

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198544

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SL2-7030-1200  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

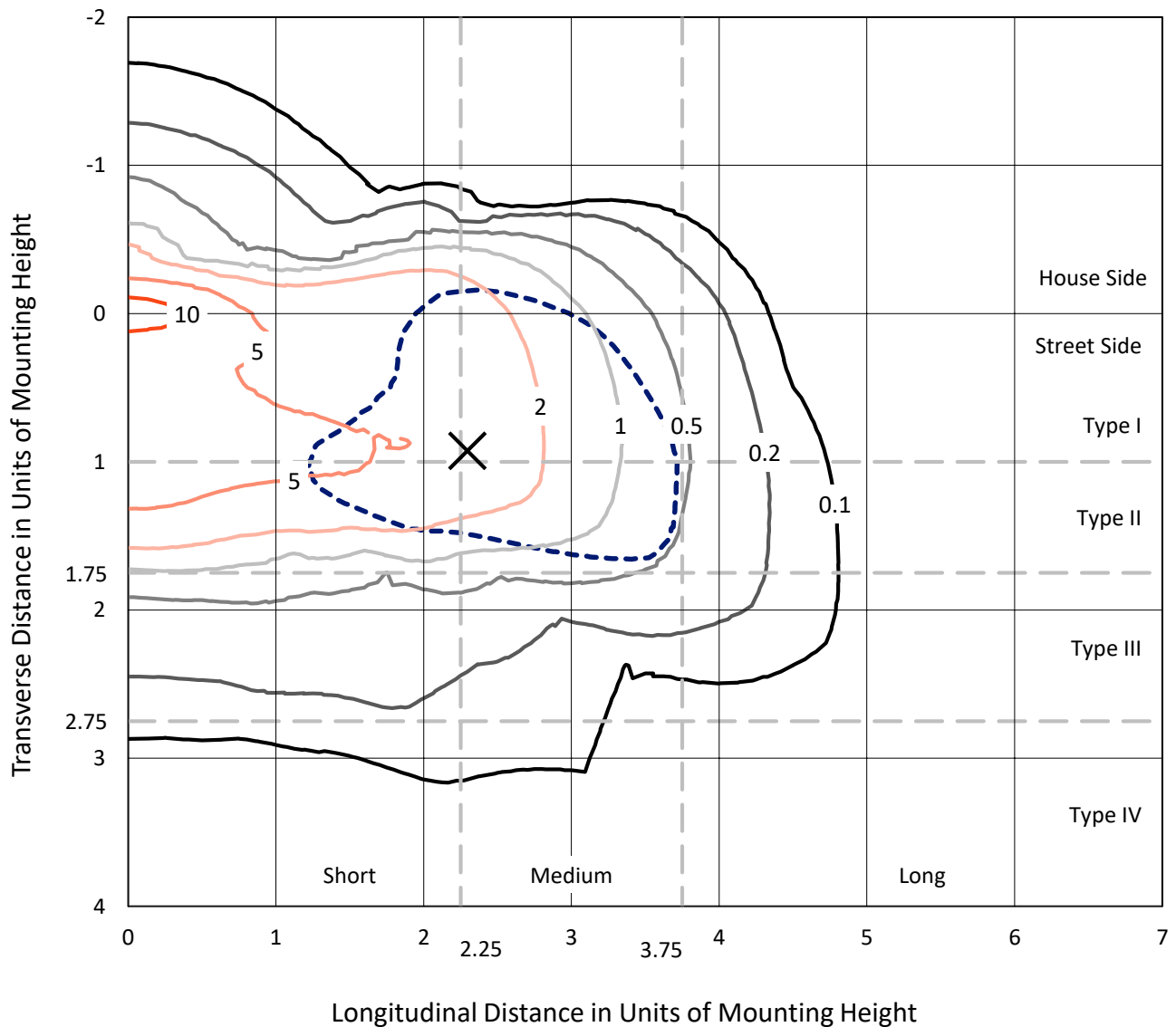
Lumens per Lamp: N/A  
Luminaire Lumens: 5757 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

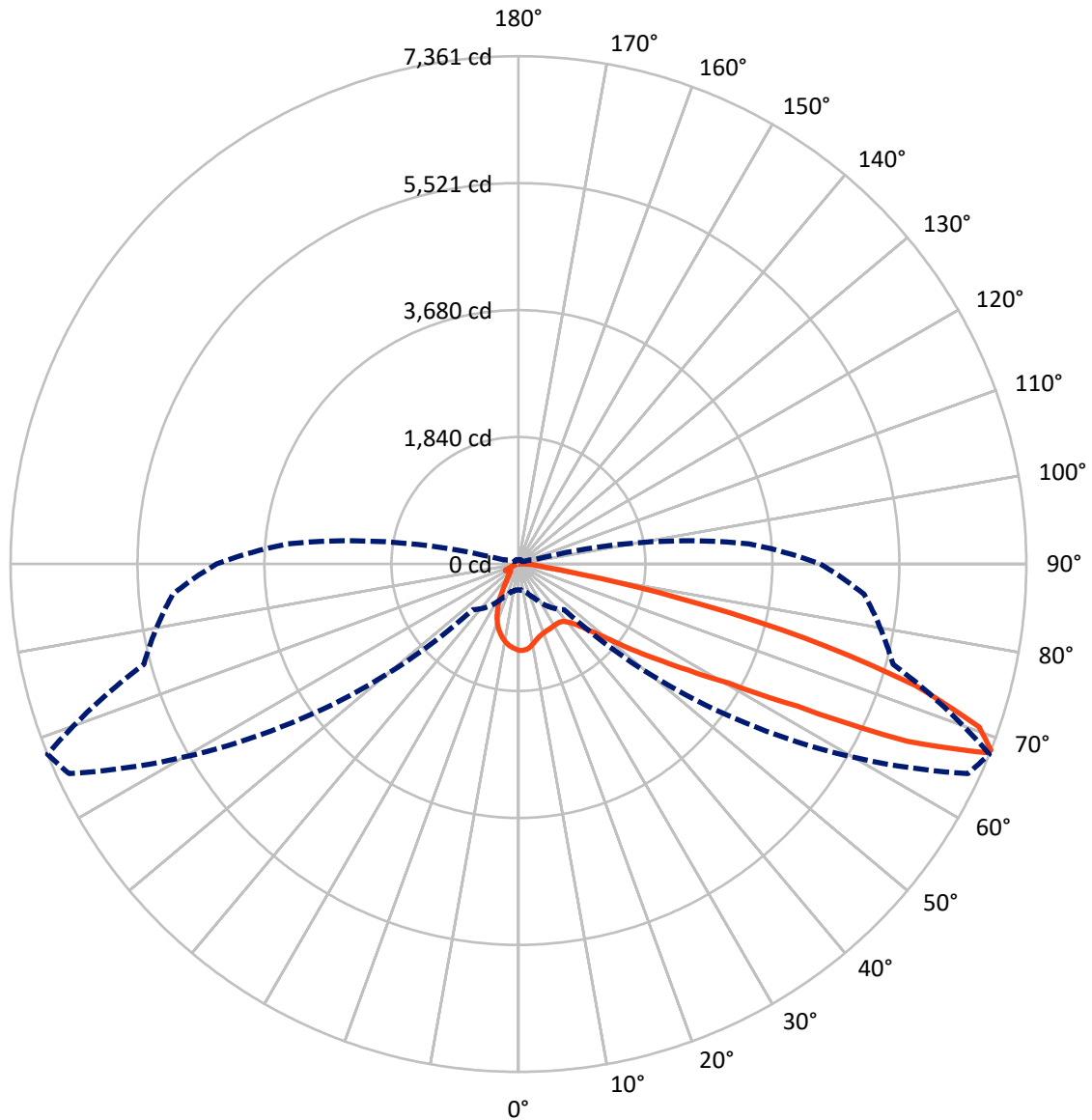


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	941.9	0.0	941.9
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	4815.1	0.0	4815.1
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	5757.0	0.0	5757.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.3	1.9
10°-20°	248.9	4.3
20°-30°	336.7	5.8
30°-40°	474.7	8.2
40°-50°	780.6	13.6
50°-60°	1210.0	21.0
60°-70°	1568.9	27.3
70°-80°	900.3	15.6
80°-90°	129.5	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5757.0	100.0
0°-180°	5757.0	100.0

**Coefficient of Utilization**



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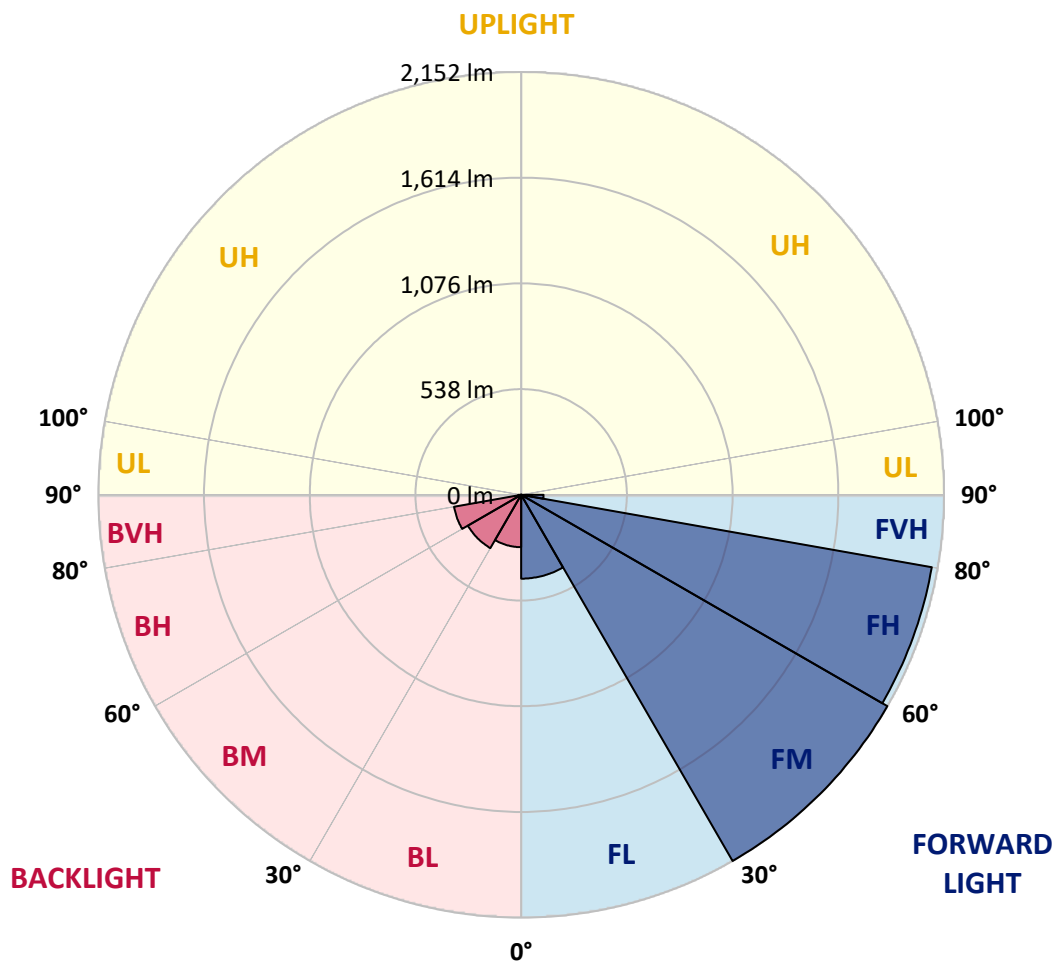
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.7	7.4			
FM (30°-60°)	2152.1	37.4			
FH (60°-80°)	2122.3	36.9			G2/5000
FVH (80°-90°)	114.1	2.0			G2/225
BL (0°-30°)	266.3	4.6	B1/500		
BM (30°-60°)	313.3	5.4	B1/1000		
BH (60°-80°)	346.9	6.0	B1/500		G1/500
BVH (80°-90°)	15.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7
2.5°	1219.2	1229.0	1229.0	1236.1	1242.5	1247.8	1252.3	1252.3	1252.3	1249.3	1246.7
5°	1091.0	1104.1	1106.0	1124.1	1147.7	1176.7	1209.0	1237.6	1243.3	1253.8	1257.9
7.5°	1001.8	1006.0	1013.1	1025.5	1049.6	1085.3	1136.1	1200.0	1215.4	1248.5	1265.8
10°	938.7	942.0	948.1	960.5	982.3	1014.6	1064.6	1147.7	1173.3	1232.0	1266.2
12.5°	892.4	895.0	900.7	912.0	934.1	963.1	1014.2	1100.7	1132.3	1215.4	1271.5
15°	856.3	860.8	865.3	876.2	898.8	926.6	978.5	1066.5	1100.7	1202.3	1281.3
17.5°	842.0	844.3	845.0	850.7	871.0	899.2	951.1	1042.5	1077.8	1191.7	1288.8
20°	851.0	851.4	843.9	840.1	851.8	877.7	928.1	1024.4	1060.5	1182.3	1291.8
22.5°	890.5	890.5	871.0	854.4	846.5	862.7	912.7	1012.0	1051.1	1175.2	1291.8
25°	965.7	962.3	931.9	899.2	864.2	857.4	902.9	1004.1	1044.0	1171.4	1286.9
27.5°	1064.6	1061.6	1022.9	974.4	911.2	868.7	899.5	997.7	1036.8	1165.8	1276.4
30°	1185.0	1182.3	1138.3	1074.8	981.5	904.4	907.4	993.2	1031.2	1156.4	1258.7
32.5°	1304.9	1303.4	1268.5	1203.4	1078.6	965.0	928.1	992.4	1028.2	1145.1	1237.3
35°	1425.7	1425.7	1404.2	1349.3	1209.0	1056.0	971.4	1006.3	1033.8	1139.1	1218.8
37.5°	1603.9	1596.8	1556.9	1500.1	1373.4	1174.1	1041.3	1035.7	1055.6	1149.3	1212.8
40°	1879.9	1859.3	1759.6	1664.1	1552.8	1325.3	1143.6	1092.5	1104.5	1183.9	1227.1
42.5°	2168.8	2136.0	2004.0	1851.4	1738.2	1511.8	1277.9	1184.6	1184.2	1250.8	1272.6
45°	2416.6	2399.7	2256.8	2063.1	1949.9	1721.6	1447.5	1321.5	1308.0	1354.6	1360.2
47.5°	2560.6	2549.3	2463.2	2287.2	2201.1	1969.5	1662.6	1511.4	1485.8	1513.7	1505.0
50°	2520.8	2531.7	2506.8	2417.0	2471.1	2317.7	1936.7	1771.6	1723.1	1751.0	1729.9
52.5°	2310.9	2340.3	2362.4	2379.7	2626.4	2783.6	2281.2	2096.6	2056.3	2051.4	2031.1
55°	1933.0	1979.6	2049.6	2176.7	2584.7	3157.8	2882.9	2489.5	2430.9	2400.0	2407.9
57.5°	1315.5	1386.2	1537.0	1778.8	2367.7	3317.3	3772.7	2997.2	2898.0	2788.1	2813.7
60°	724.7	783.7	963.1	1206.8	1872.4	3293.6	4561.3	3822.3	3509.8	3218.7	3271.4
62.5°	469.0	481.7	615.2	824.3	1149.3	2907.7	4999.4	5201.4	4539.1	3786.6	3860.7
65°	376.8	385.8	451.3	664.9	800.6	1870.5	5019.0	6631.9	6195.3	4558.3	4560.5
67.5°	368.2	372.3	410.3	559.2	751.0	1018.4	4338.3	7196.0	7297.2	5469.1	5028.7
68°	373.4	378.3	416.7	541.9	750.6	938.7	4009.6	7187.4	7360.7	5621.4	5028.7
70°	329.4	335.4	425.0	560.7	718.7	807.0	2745.6	6805.6	7084.7	5971.5	4771.5
72.5°	172.2	167.3	210.2	442.6	808.9	840.9	1450.5	5685.7	6011.4	5530.4	4122.4
75°	134.3	122.2	117.7	174.9	711.5	872.1	842.4	4041.2	4287.1	3986.7	2755.4
77.5°	126.4	111.7	103.0	103.4	313.3	907.4	681.4	2378.2	2378.2	1901.8	879.2
80°	101.5	88.0	82.4	94.0	151.2	836.4	711.1	1083.8	924.4	491.5	242.2
82.5°	66.9	59.8	60.2	76.3	114.7	558.5	823.6	535.1	402.0	217.7	142.5
85°	42.5	36.5	40.6	53.4	85.7	249.0	815.3	371.9	266.3	122.2	71.1
87.5°	21.4	16.5	20.3	27.8	52.3	71.5	671.3	332.1	197.4	50.8	38.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7	1252.7
2.5°	1246.7	1238.4	1234.2	1227.5	1219.2	1210.9	1205.3	1202.7	1201.2	1201.9	1201.5
5°	1255.7	1244.8	1227.1	1201.9	1176.0	1148.5	1127.4	1111.3	1101.1	1098.1	1097.4
7.5°	1262.4	1246.7	1213.6	1167.7	1123.3	1075.2	1034.2	1001.5	979.3	969.1	968.7
10°	1261.3	1241.0	1188.7	1121.0	1056.0	985.3	921.0	866.1	826.2	807.0	806.3
12.5°	1262.4	1234.6	1158.3	1066.5	973.3	872.1	776.6	691.2	631.8	603.6	602.5
15°	1267.0	1227.9	1127.1	1005.6	876.6	733.7	597.2	490.0	435.9	417.4	417.4
17.5°	1266.6	1216.6	1091.0	934.9	761.9	570.5	407.7	341.5	336.2	353.1	355.8
20°	1259.1	1198.5	1044.3	851.0	627.3	394.9	276.4	267.0	309.1	355.8	361.0
22.5°	1247.4	1175.2	990.6	753.6	470.5	257.2	213.2	227.5	284.7	342.6	350.9
25°	1231.2	1147.0	928.9	640.4	312.9	185.0	177.9	195.6	235.8	274.5	280.5
27.5°	1207.5	1111.3	861.6	517.8	199.7	152.3	154.9	167.3	184.6	201.2	204.6
30°	1177.8	1069.5	788.2	382.1	151.6	136.1	140.6	148.2	155.7	166.2	168.5
32.5°	1147.7	1027.0	711.9	262.5	132.4	127.5	132.0	136.1	142.5	149.7	151.2
35°	1120.7	987.5	633.3	183.1	124.1	121.8	124.1	126.7	133.1	140.3	141.0
37.5°	1101.1	955.2	551.3	144.8	119.2	117.0	118.1	119.2	126.7	137.3	138.4
40°	1098.5	933.8	468.2	130.1	115.5	112.4	111.7	112.4	122.2	134.3	135.4
42.5°	1124.1	934.9	387.0	124.1	112.4	109.1	106.1	107.6	116.2	125.6	126.4
45°	1184.6	961.2	316.6	121.5	109.8	107.2	102.7	103.4	107.6	112.4	113.2
47.5°	1291.4	1018.8	262.9	120.0	107.6	105.3	99.7	97.4	97.8	100.4	100.4
50°	1462.1	1115.0	230.2	118.5	105.7	101.5	95.1	90.6	89.5	91.0	91.4
52.5°	1716.7	1280.1	214.4	115.5	102.3	96.6	89.5	85.0	83.1	84.6	84.6
55°	2060.8	1543.7	206.8	111.3	98.2	90.6	84.2	80.5	79.0	80.1	80.1
57.5°	2453.1	1886.3	219.6	105.7	92.9	84.2	79.7	77.1	76.0	77.1	77.5
60°	2919.0	2334.6	307.6	98.5	87.2	78.6	76.0	74.5	73.7	74.8	74.8
62.5°	3538.4	2931.0	476.1	92.9	81.2	73.3	72.6	71.8	71.1	72.2	72.2
65°	4207.0	3473.7	490.0	89.5	76.0	68.8	69.2	69.2	68.4	69.6	69.6
67.5°	4419.9	3426.7	273.8	85.4	69.6	64.3	65.8	65.8	65.4	66.6	66.2
68°	4374.8	3352.2	238.4	84.2	68.4	63.2	64.7	65.1	64.7	65.8	65.4
70°	4038.6	2943.1	156.8	77.8	63.6	59.4	61.7	62.1	61.7	63.2	62.8
72.5°	3333.8	2207.5	115.8	68.1	57.5	54.5	56.8	57.2	57.5	59.0	58.7
75°	2117.2	1219.2	91.4	57.9	51.5	48.9	51.1	52.3	53.0	55.3	54.2
77.5°	579.9	370.0	74.1	49.3	44.4	43.2	44.8	46.3	47.0	49.6	47.8
80°	203.1	163.6	61.7	41.7	36.9	36.5	38.0	39.5	40.2	42.5	40.2
82.5°	123.3	106.8	49.3	32.7	29.0	28.6	30.5	32.0	32.7	32.7	31.2
85°	64.3	56.4	36.1	22.9	19.9	18.8	22.2	24.1	24.4	24.1	22.9
87.5°	36.1	32.0	19.2	10.9	9.0	9.4	11.7	14.3	15.4	15.0	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)