

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: P271233

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
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-SL3-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

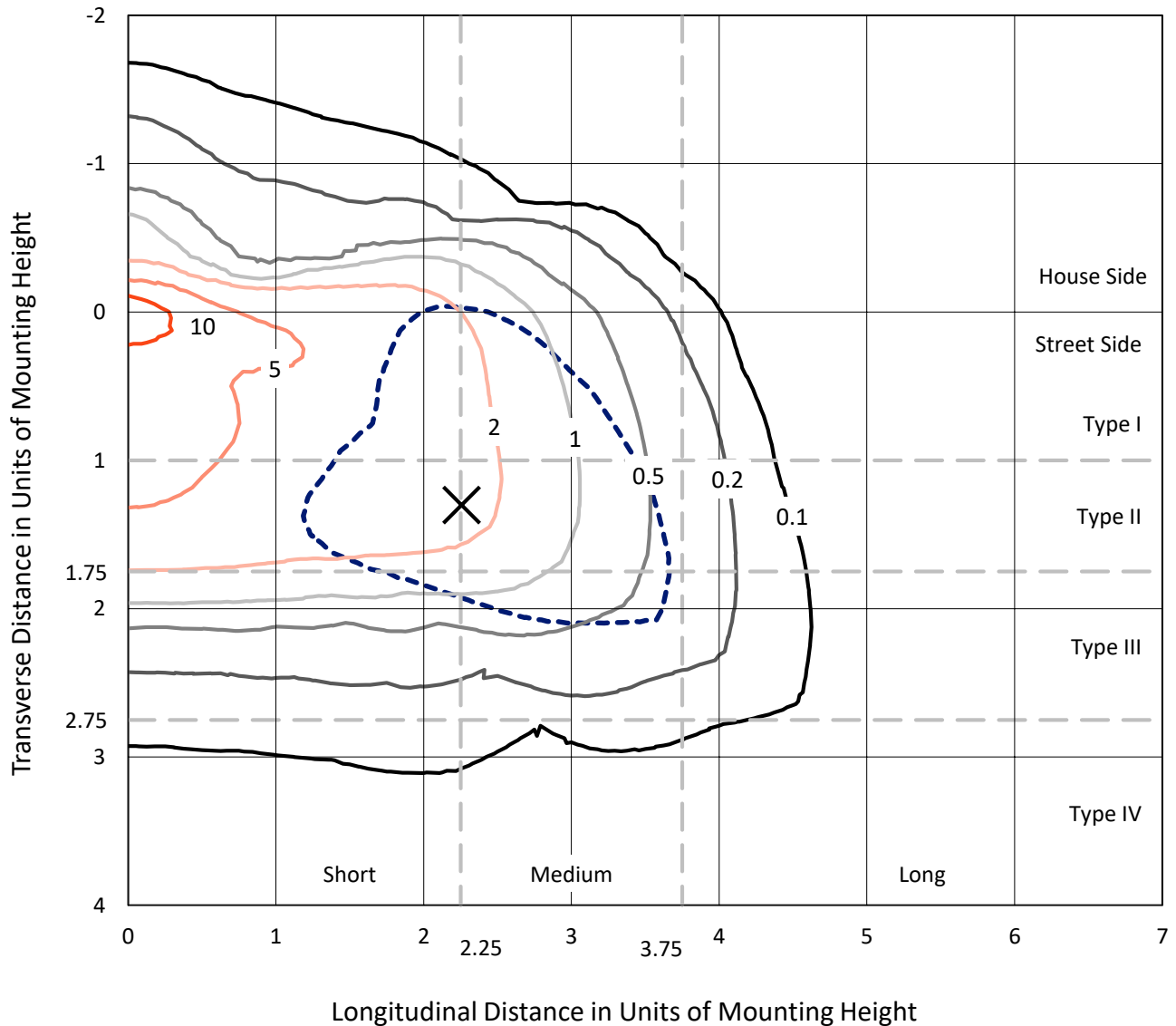
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

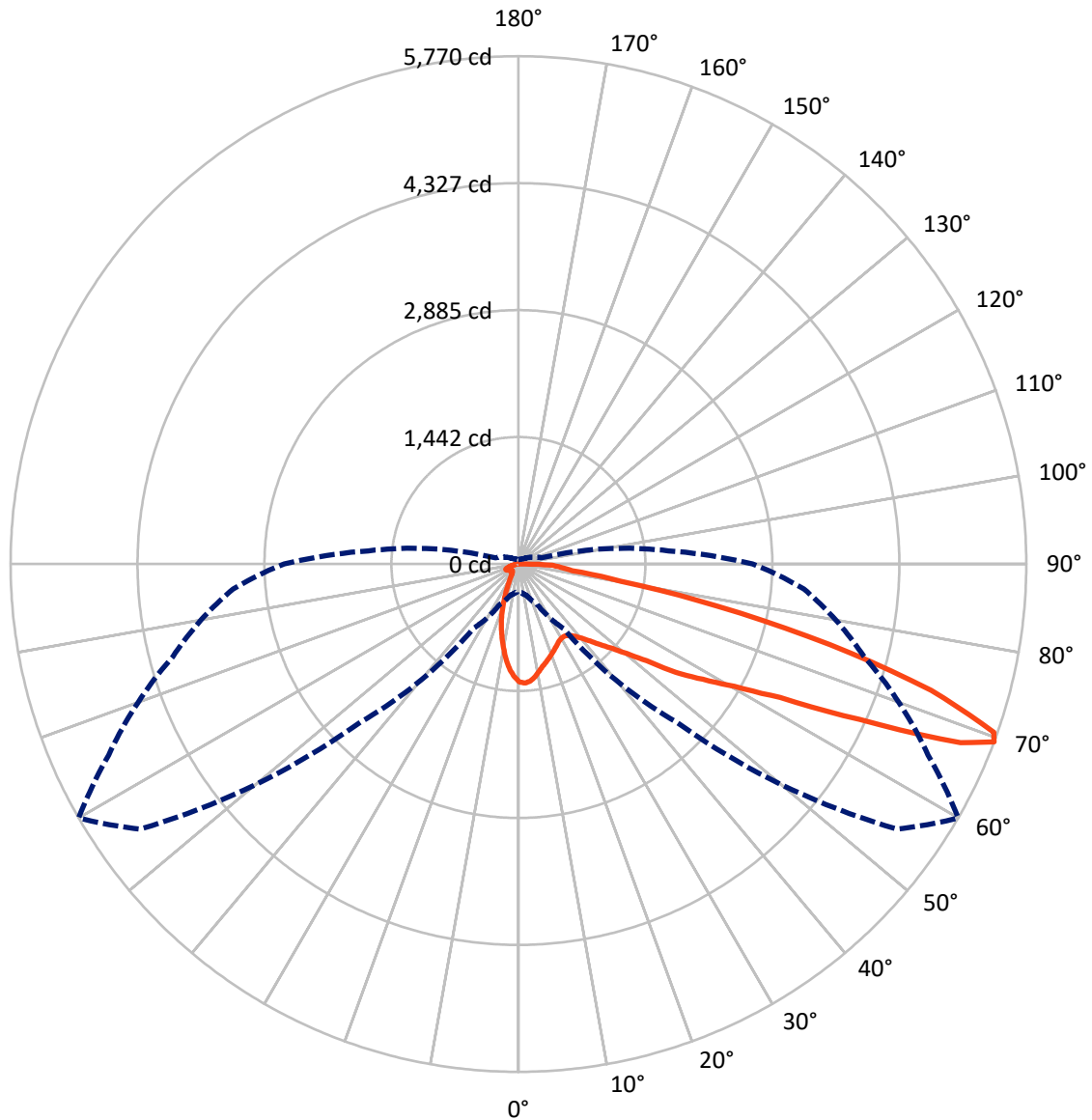
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.5	0.0	748.5
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	4499.4	0.0	4499.4
	% Fixture	85.7	0.0	85.7
Total	Lumens	5248.0	0.0	5248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	2.2
10°-20°	243.2	4.6
20°-30°	310.3	5.9
30°-40°	427.0	8.1
40°-50°	691.6	13.2
50°-60°	1085.4	20.7
60°-70°	1447.1	27.6
70°-80°	804.9	15.3
80°-90°	124.8	2.4
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°	5248.0	100.0
0°-180°	5248.0	100.0

Coefficient of Utilization



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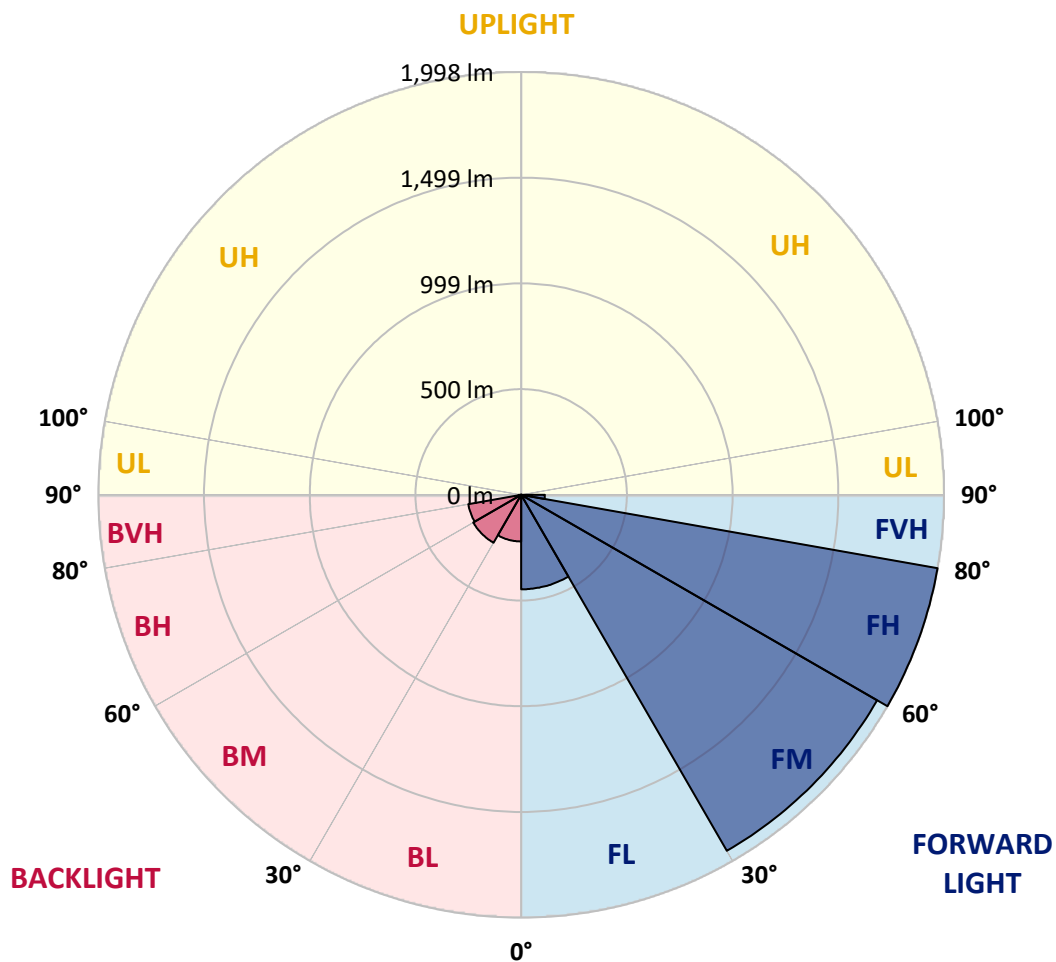
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.5	8.5			
FM (30°-60°)	1942.5	37.0			
FH (60°-80°)	1998.2	38.1			G2/5000
FVH (80°-90°)	112.2	2.1			G2/225
BL (0°-30°)	220.6	4.2	B1/500		
BM (30°-60°)	261.5	5.0	B1/1000		
BH (60°-80°)	253.8	4.8	B1/500		G1/500
BVH (80°-90°)	12.7	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1
2.5°	1374.6	1378.4	1378.4	1375.3	1373.7	1363.9	1358.1	1354.1	1347.1	1334.1	1322.2
5°	1325.5	1332.6	1335.7	1336.9	1345.8	1342.7	1343.1	1340.5	1334.3	1320.1	1301.0
7.5°	1235.3	1236.7	1242.1	1251.2	1272.4	1287.2	1299.3	1301.6	1300.3	1289.8	1262.9
10°	1146.5	1148.9	1155.3	1170.9	1191.0	1212.2	1238.5	1249.3	1257.3	1253.9	1219.9
12.5°	1072.8	1073.1	1080.2	1098.1	1120.6	1147.2	1182.9	1199.7	1218.9	1226.6	1188.5
15°	1001.8	1006.6	1013.3	1034.8	1062.8	1096.4	1137.4	1160.7	1185.9	1208.1	1164.5
17.5°	948.0	951.8	955.7	973.6	1005.9	1048.0	1098.7	1123.7	1156.9	1191.0	1139.5
20°	918.3	919.8	916.7	925.4	952.7	998.1	1057.0	1086.9	1126.7	1174.4	1113.9
22.5°	912.3	912.3	901.2	899.6	911.7	950.0	1013.9	1050.7	1099.0	1163.0	1091.0
25°	940.5	938.5	917.7	898.6	894.2	913.7	973.0	1018.0	1075.5	1162.6	1073.8
27.5°	994.2	991.4	965.5	933.2	905.2	896.9	941.2	987.3	1057.0	1174.2	1065.1
30°	1060.7	1059.7	1033.5	993.0	947.1	903.5	928.8	971.5	1044.5	1195.4	1064.9
32.5°	1133.8	1129.0	1112.9	1072.4	1012.6	941.0	936.3	972.2	1041.2	1226.2	1072.4
35°	1211.5	1208.1	1204.1	1163.3	1096.0	1006.9	968.8	995.4	1057.8	1269.3	1094.3
37.5°	1310.4	1306.8	1313.4	1269.0	1195.4	1093.3	1024.1	1041.9	1091.4	1331.9	1135.1
40°	1486.4	1475.6	1456.8	1388.5	1311.0	1199.3	1103.7	1106.5	1148.9	1415.8	1200.3
42.5°	1775.5	1740.8	1647.6	1522.1	1433.2	1322.6	1207.9	1195.0	1228.3	1526.5	1295.3
45°	2065.3	2026.2	1868.7	1667.9	1559.7	1454.8	1336.4	1305.7	1327.2	1655.3	1417.4
47.5°	2252.4	2233.1	2055.5	1813.6	1692.3	1598.9	1483.5	1432.9	1448.3	1801.5	1568.3
50°	2307.2	2290.8	2151.1	1927.7	1817.6	1772.8	1665.5	1598.5	1601.1	1972.0	1748.9
52.5°	2266.2	2259.4	2166.9	1998.3	1932.7	1956.1	1917.5	1824.3	1802.1	2159.2	1944.8
55°	2211.3	2213.7	2178.0	2069.2	2049.8	2127.1	2247.3	2172.3	2078.0	2354.0	2148.7
57.5°	2038.7	2040.4	2134.0	2204.6	2273.3	2366.8	2504.0	2472.4	2362.7	2564.3	2377.3
60°	1641.6	1654.7	1863.1	2176.7	2528.6	2839.0	2872.6	2818.1	2665.6	2806.7	2674.3
62.5°	1172.7	1184.5	1425.9	1889.6	2498.7	3373.3	3553.1	3336.3	3076.5	3169.1	3092.3
65°	616.1	614.1	800.8	1305.7	2104.5	3497.2	4625.3	4256.3	3768.7	3667.5	3496.2
67.5°	344.3	355.4	427.8	658.5	1371.7	3077.9	5310.1	5418.8	4731.3	4062.9	3478.6
69°	318.4	322.0	370.6	509.2	894.2	2539.4	5251.1	5769.8	5137.0	4064.7	3254.6
70°	309.2	313.2	357.3	469.2	751.2	2080.7	5036.7	5728.8	5235.7	3974.5	3050.6
72.5°	277.2	282.6	325.5	421.7	632.9	1072.4	4057.1	4903.2	4742.7	3473.7	2365.4
75°	236.6	245.6	310.3	418.6	599.7	681.9	2705.7	3653.0	3529.8	2484.3	1342.1
77.5°	97.9	99.0	135.6	306.6	629.4	652.4	1454.1	2313.9	2048.4	1089.4	404.1
80°	68.4	67.0	67.6	89.6	507.8	656.9	746.1	1176.8	914.7	287.4	189.2
82.5°	57.5	56.9	59.6	56.2	171.9	745.5	624.0	613.5	430.7	154.8	90.2
85°	38.0	37.0	48.8	51.2	81.7	592.0	671.0	482.2	321.1	82.7	38.4
87.5°	18.5	18.9	27.9	34.7	43.4	187.4	642.7	381.3	248.0	36.0	15.5
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°	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1	1339.1
2.5°	1317.5	1307.5	1298.3	1286.9	1278.1	1270.7	1260.6	1260.3	1258.6	1261.0	1261.6
5°	1288.2	1271.5	1245.8	1217.3	1197.0	1170.4	1144.5	1135.7	1126.0	1124.9	1128.0
7.5°	1244.2	1217.9	1174.2	1130.3	1086.6	1041.9	999.5	978.0	957.1	950.6	953.7
10°	1195.0	1161.7	1094.8	1023.3	961.7	895.3	830.6	788.8	750.9	734.6	738.6
12.5°	1156.7	1114.3	1020.0	927.5	835.2	739.7	654.5	572.1	509.9	481.9	483.6
15°	1123.7	1069.5	950.0	826.8	711.4	580.6	462.4	366.8	312.3	292.0	291.4
17.5°	1087.9	1022.5	876.9	733.2	583.4	421.7	309.6	253.1	231.6	224.8	224.8
20°	1049.9	973.9	800.6	631.2	449.0	294.5	232.9	211.0	202.9	201.0	200.6
22.5°	1014.6	926.4	723.9	522.6	324.7	223.5	198.3	189.8	188.5	190.1	190.1
25°	986.7	884.7	646.2	408.2	236.3	187.0	176.3	175.3	180.4	186.5	187.4
27.5°	965.9	847.5	569.3	298.1	185.8	163.0	159.2	163.5	175.3	187.4	189.8
30°	951.3	815.4	477.4	214.3	154.8	142.7	144.4	152.2	170.0	188.5	193.6
32.5°	944.9	789.5	385.1	164.6	132.3	125.6	130.0	140.0	158.6	177.1	183.1
35°	951.0	770.7	299.6	136.6	115.7	110.8	115.7	126.2	138.2	147.4	151.2
37.5°	973.0	763.9	225.5	121.1	105.0	99.9	103.9	111.0	116.4	119.8	121.5
40°	1018.9	770.9	176.6	113.0	99.0	93.2	94.2	97.6	101.2	103.9	104.4
42.5°	1092.3	794.2	157.2	110.0	95.2	87.9	86.1	88.6	92.5	96.3	96.8
45°	1190.0	832.9	155.1	111.0	93.6	83.5	80.0	82.5	87.9	94.0	95.0
47.5°	1316.1	894.2	164.6	116.4	94.5	81.0	76.0	78.4	85.5	93.6	95.0
50°	1465.6	979.0	182.0	124.5	99.3	81.0	74.4	76.4	83.8	92.9	94.2
52.5°	1641.6	1097.1	200.2	132.6	106.0	84.1	75.1	74.6	81.4	89.8	91.5
55°	1835.7	1243.9	217.7	139.6	109.8	88.2	76.7	72.8	78.1	84.8	86.1
57.5°	2064.2	1444.7	248.3	146.5	111.7	91.2	78.7	70.6	73.8	78.4	79.4
60°	2374.2	1739.8	307.8	157.8	115.4	92.5	79.1	68.6	68.4	71.7	72.0
62.5°	2778.4	2085.4	364.8	171.2	122.8	92.9	77.8	67.4	63.9	64.9	64.9
65°	3065.7	2212.6	348.4	182.7	129.5	92.5	76.4	66.3	60.5	58.8	58.8
67.5°	2902.2	1954.5	295.8	185.8	130.3	88.8	73.3	63.9	57.5	53.4	53.4
69°	2661.9	1713.2	271.6	180.4	124.9	84.5	70.0	61.5	55.5	50.8	50.8
70°	2466.0	1530.5	256.7	174.0	118.4	80.8	67.0	59.2	53.4	49.4	49.1
72.5°	1841.2	1021.4	219.5	150.0	97.2	68.4	58.6	52.8	48.1	45.5	45.5
75°	971.5	511.9	179.8	122.4	75.1	54.4	48.1	44.5	41.7	41.4	41.1
77.5°	318.4	231.6	129.3	92.2	55.2	42.4	38.4	36.0	35.7	37.0	37.0
80°	171.9	138.2	83.2	62.3	38.4	31.6	29.6	29.3	30.4	32.2	32.2
82.5°	83.5	68.4	49.4	38.4	26.2	23.3	23.3	23.5	25.0	27.3	27.3
85°	36.0	32.2	28.6	21.5	16.2	14.5	16.4	18.1	19.1	20.9	21.5
87.5°	17.2	15.1	13.1	8.4	7.0	7.4	8.8	10.8	12.8	14.2	14.5
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)