

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: P198574

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-7030
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5108 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

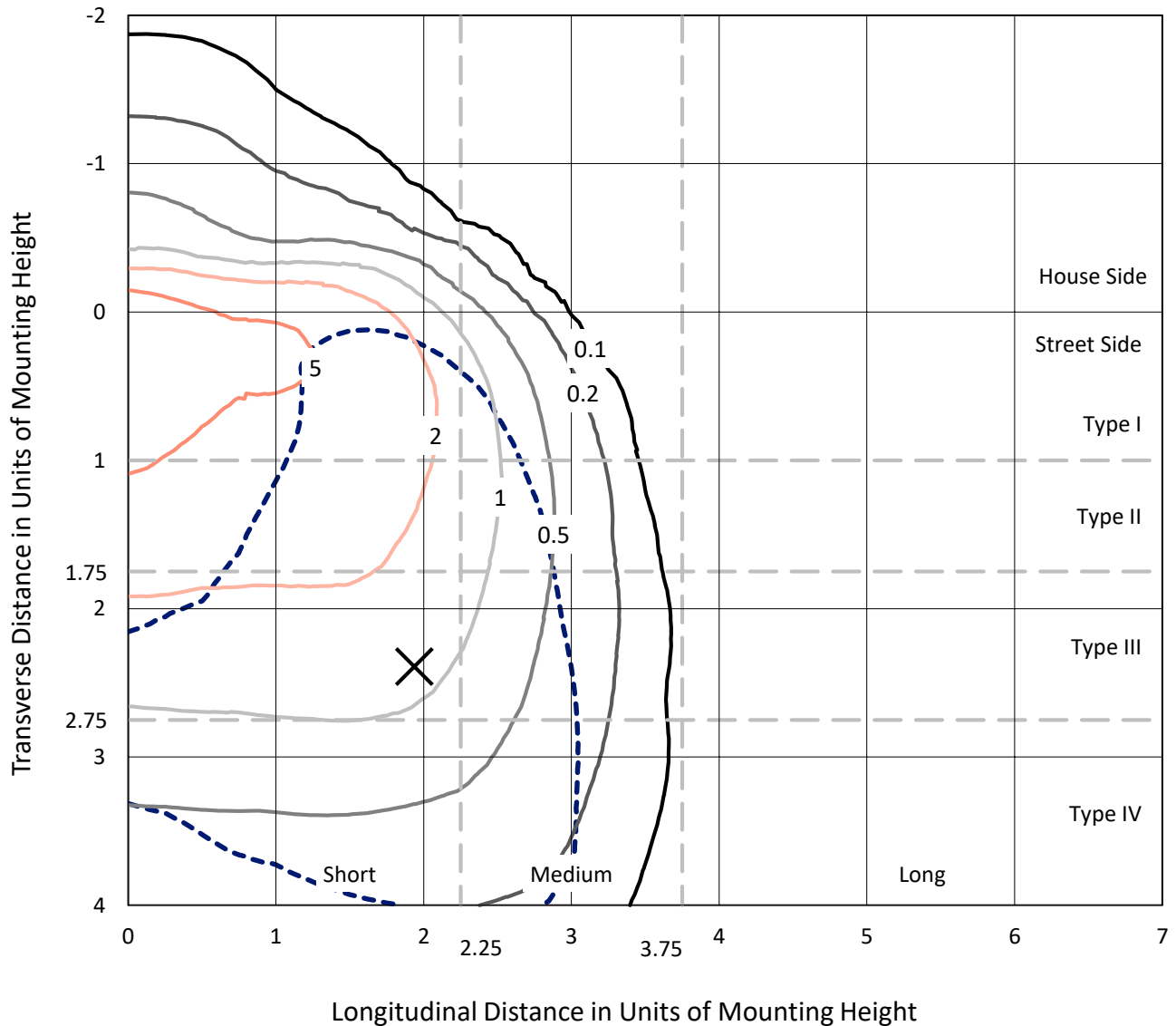
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

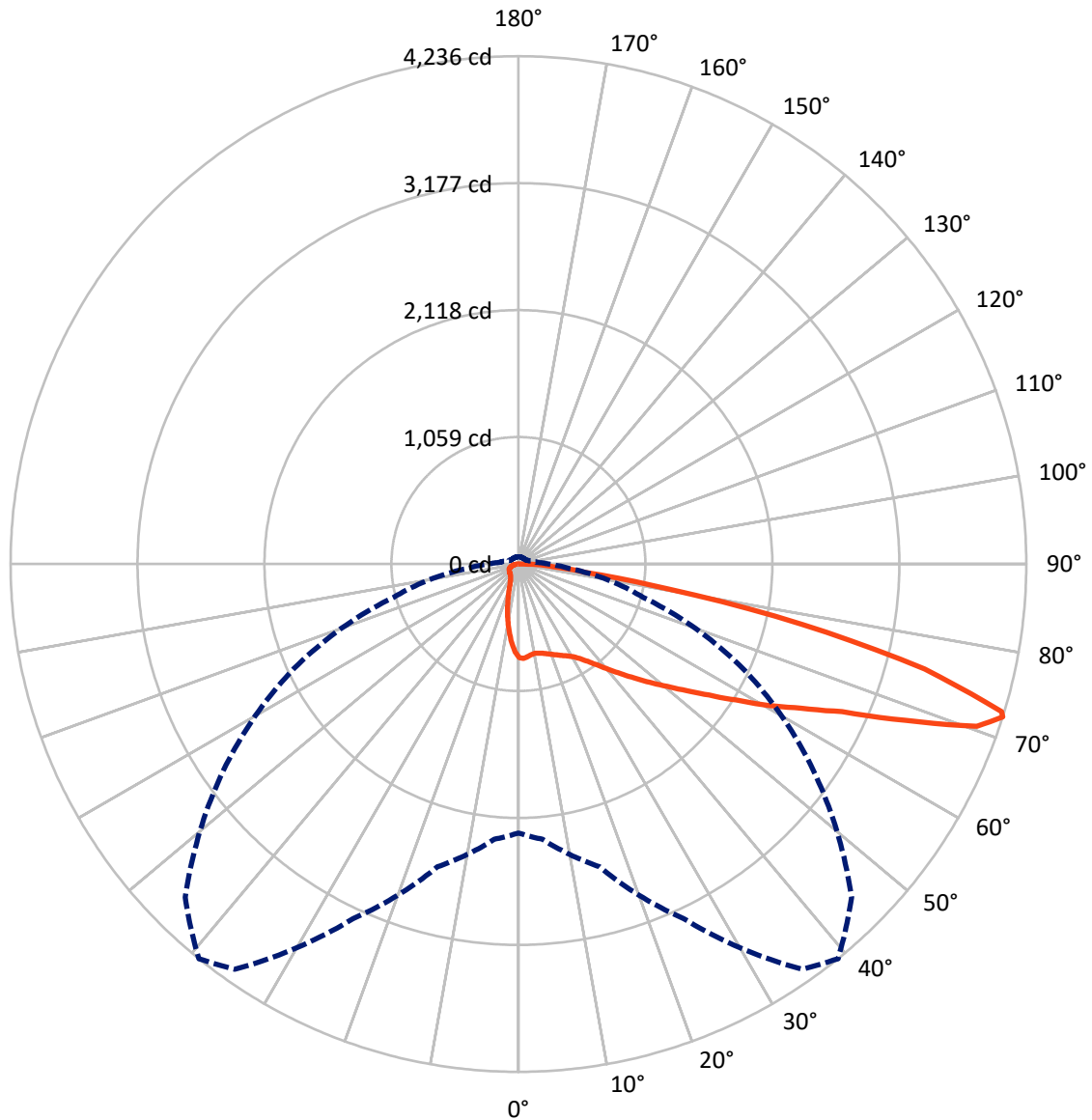
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	585.7	0.0	585.7
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	4522.3	0.0	4522.3
	% Fixture	88.5	0.0	88.5
Total	Lumens	5108.0	0.0	5108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.3
10°-20°	168.4	3.3
20°-30°	262.5	5.1
30°-40°	404.2	7.9
40°-50°	658.9	12.9
50°-60°	1023.9	20.0
60°-70°	1370.4	26.8
70°-80°	985.5	19.3
80°-90°	167.1	3.3
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°	5108.0	100.0
0°-180°	5108.0	100.0

Coefficient of Utilization



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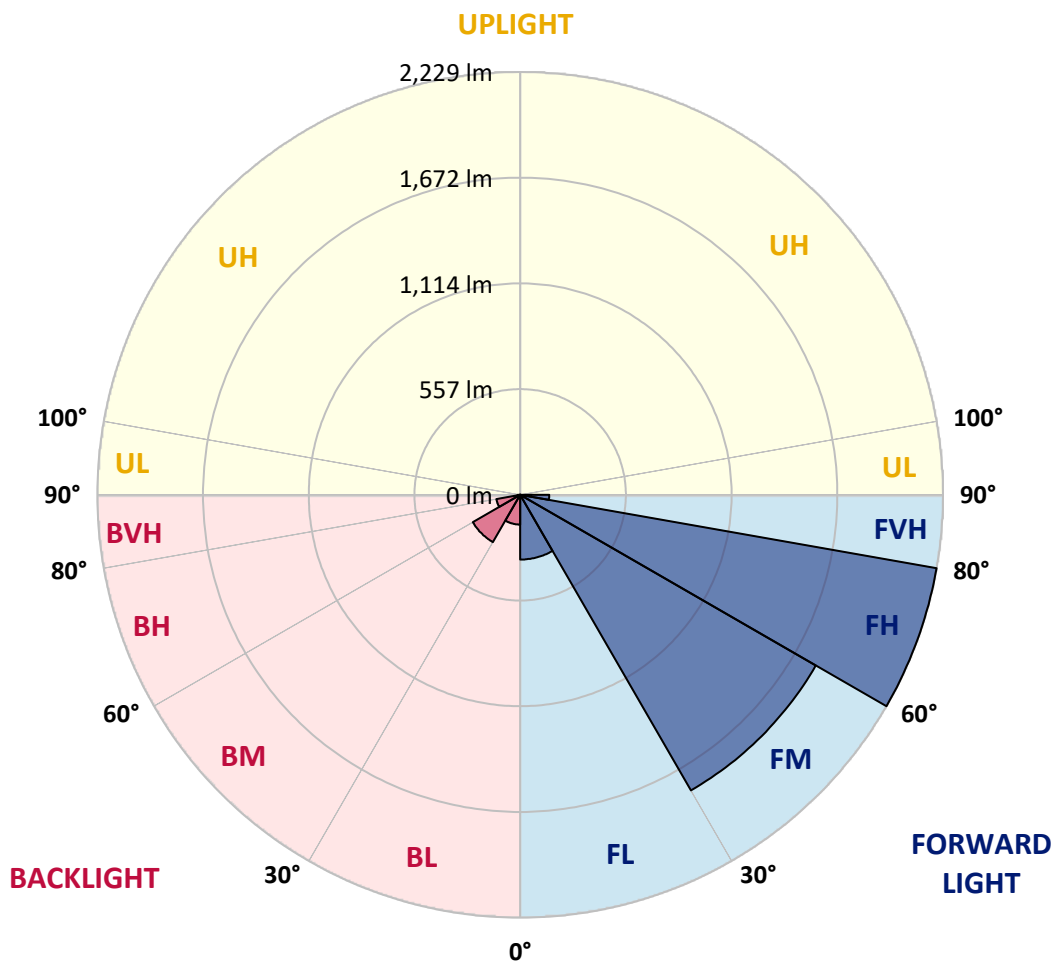
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	341.2	6.7			
FM	(30°-60°)	1799.1	35.2			
FH	(60°-80°)	2228.7	43.6			G2/5000
FVH	(80°-90°)	153.3	3.0			G2/225
BL	(0°-30°)	156.8	3.1	B1/500		
BM	(30°-60°)	287.8	5.6	B1/1000		
BH	(60°-80°)	127.3	2.5	B1/500		G1/500
BVH	(80°-90°)	13.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1
2.5°	796.9	797.2	796.2	793.1	790.4	789.0	786.6	782.5	777.0	773.2	770.1
5°	789.3	790.4	789.7	784.5	779.7	777.0	773.2	767.4	760.2	757.1	749.9
7.5°	783.5	784.2	782.1	776.3	767.1	763.6	756.8	749.2	742.7	738.3	729.7
10°	779.4	780.1	778.4	772.5	762.3	758.1	749.9	741.7	733.1	727.6	718.0
12.5°	773.6	774.9	774.9	772.2	765.3	762.6	754.4	745.5	737.6	731.7	719.7
15°	772.5	774.3	777.3	777.0	774.9	772.9	766.4	757.5	750.6	743.7	729.0
17.5°	781.1	784.9	791.1	793.1	791.7	787.3	779.7	771.5	764.0	757.5	739.3
20°	802.7	804.8	814.0	818.1	811.3	804.8	794.8	784.2	777.3	772.2	748.9
22.5°	835.3	838.0	845.6	845.9	831.5	823.6	810.9	797.9	791.4	789.3	761.9
25°	887.4	886.7	888.8	880.2	854.1	844.9	829.5	814.4	809.9	814.0	781.1
27.5°	949.8	948.1	941.6	919.3	879.9	867.9	849.3	836.0	836.0	845.6	807.2
30°	1021.8	1020.1	998.8	961.5	910.4	896.7	877.1	863.1	870.3	888.8	842.5
32.5°	1097.9	1091.8	1061.9	1011.9	953.9	938.8	920.0	905.6	919.3	950.8	893.2
35°	1169.6	1166.2	1129.5	1070.2	1010.2	997.5	984.4	966.6	988.6	1037.6	964.9
37.5°	1243.7	1240.9	1196.0	1132.9	1078.7	1070.2	1059.2	1046.9	1082.2	1146.6	1061.9
40°	1326.3	1320.8	1264.2	1201.2	1158.6	1154.5	1148.7	1145.3	1202.2	1298.2	1184.7
42.5°	1419.9	1409.3	1336.3	1276.3	1245.7	1249.2	1246.1	1259.8	1346.9	1473.1	1330.8
45°	1526.9	1505.6	1407.9	1356.1	1342.1	1355.8	1362.3	1397.3	1518.0	1675.0	1494.0
47.5°	1627.0	1599.6	1486.4	1442.9	1450.8	1474.4	1493.0	1554.7	1705.6	1874.6	1660.6
50°	1719.3	1688.4	1570.5	1532.7	1571.1	1604.7	1643.1	1730.2	1905.1	2080.0	1813.6
52.5°	1787.5	1765.2	1654.5	1630.8	1709.3	1753.9	1815.3	1925.3	2106.7	2275.8	1950.0
55°	1840.3	1828.3	1736.4	1743.3	1865.7	1929.5	2003.9	2130.4	2320.0	2451.3	2059.8
57.5°	1901.3	1892.4	1830.0	1879.1	2059.8	2140.0	2227.8	2368.4	2523.0	2606.0	2145.8
60°	1965.8	1965.8	1934.3	2042.6	2302.5	2394.4	2481.9	2591.2	2725.3	2745.2	2180.8
62.5°	2014.5	2027.2	2038.5	2216.8	2533.0	2647.1	2743.2	2848.1	2934.8	2813.8	2098.5
65°	2085.1	2112.2	2176.0	2418.1	2818.2	2967.7	3097.4	3185.5	3104.6	2759.3	1830.0
67.5°	2206.5	2246.6	2382.4	2717.8	3255.1	3479.0	3604.8	3452.6	3071.3	2416.0	1401.7
70°	2315.9	2372.5	2604.6	3098.0	3822.9	4055.4	3997.5	3390.5	2674.9	1771.0	862.4
72°	2243.2	2304.9	2614.9	3263.7	4126.4	4236.1	3930.6	3004.8	2067.0	1080.8	425.2
72.5°	2195.5	2259.7	2581.6	3259.5	4134.6	4213.1	3837.7	2851.5	1876.3	945.7	343.9
75°	1834.1	1889.0	2219.9	2888.9	3643.6	3499.6	2994.8	1845.5	862.4	305.5	176.9
77.5°	1197.7	1239.6	1530.7	2001.5	2552.2	2413.6	1822.8	864.1	323.3	185.5	133.0
80°	601.8	631.6	819.2	1052.3	1377.4	1267.3	841.5	418.0	216.4	134.1	104.6
82.5°	418.7	446.1	564.1	537.3	575.7	557.2	395.7	348.7	161.8	84.7	54.9
85°	351.1	379.6	466.7	383.0	313.4	285.6	283.6	329.5	107.0	41.8	46.3
87.5°	306.2	349.4	385.1	279.8	215.0	189.6	208.8	302.1	33.9	23.0	14.1
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°	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1	780.1
2.5°	765.0	764.0	758.8	750.9	745.1	741.3	734.1	733.8	734.5	728.3	730.7
5°	743.4	739.3	725.9	707.7	693.0	678.9	663.5	658.4	653.9	644.6	645.7
7.5°	720.8	713.6	690.2	660.4	632.0	605.9	580.2	567.5	557.9	545.9	545.9
10°	707.4	696.1	660.4	616.9	571.6	533.5	495.1	472.2	455.4	439.9	438.9
12.5°	706.7	689.6	639.8	579.8	517.8	464.3	411.8	376.5	351.5	333.3	331.6
15°	712.2	688.2	622.7	545.2	467.0	397.4	332.6	287.7	255.8	235.6	233.5
17.5°	717.0	686.5	604.2	508.9	417.6	332.9	260.9	214.3	184.1	167.7	166.0
20°	721.4	682.7	580.5	470.5	363.1	272.6	204.0	166.3	146.4	137.2	136.1
22.5°	728.0	679.3	555.8	427.2	309.6	221.9	168.4	141.3	130.6	126.2	125.5
25°	738.6	679.6	531.8	383.0	260.6	184.8	145.7	128.9	123.1	120.0	120.0
27.5°	754.0	683.7	508.2	338.1	219.1	159.4	132.4	122.4	118.6	116.2	115.6
30°	776.7	691.3	483.1	295.6	186.2	142.0	124.5	118.3	115.2	113.2	112.8
32.5°	809.6	704.6	456.7	256.8	161.2	129.6	118.6	114.9	112.5	110.8	110.4
35°	858.6	728.3	431.0	223.9	143.3	120.7	113.8	110.8	109.4	108.7	108.4
37.5°	930.6	766.4	406.7	198.2	131.7	114.9	109.0	107.3	106.6	106.6	106.6
40°	1021.1	816.4	384.7	180.0	125.2	110.4	105.6	104.2	104.2	104.6	104.6
42.5°	1131.2	879.2	365.9	167.7	121.4	107.3	103.2	102.5	102.2	102.2	102.5
45°	1259.1	953.2	354.2	158.1	118.6	105.6	101.5	101.2	99.8	99.1	99.1
47.5°	1387.7	1032.5	353.5	152.6	115.2	103.6	99.8	99.8	97.0	95.7	96.0
50°	1507.7	1103.4	361.1	151.2	113.2	100.5	98.1	98.4	94.6	92.9	92.6
52.5°	1604.4	1157.6	370.3	152.9	113.2	97.7	95.0	96.7	92.6	90.5	90.2
55°	1679.2	1195.3	373.8	156.7	114.5	95.3	92.2	95.0	91.9	89.2	89.2
57.5°	1732.6	1207.3	359.0	158.4	116.6	95.0	89.5	94.6	92.9	89.5	89.5
60°	1713.1	1137.7	304.1	151.9	116.2	94.3	87.4	95.3	96.4	92.6	92.6
62.5°	1560.5	951.9	244.1	137.2	110.4	91.9	85.0	94.6	98.8	97.4	96.7
65°	1270.4	698.1	189.3	119.7	100.5	86.8	79.9	88.5	93.3	94.6	95.0
67.5°	895.3	442.0	147.1	101.8	88.1	79.2	74.1	78.2	79.9	80.6	82.0
70°	489.7	239.3	116.9	85.7	75.4	71.7	67.9	68.2	67.6	66.9	67.6
72°	245.9	156.4	98.8	74.4	66.9	64.5	62.7	61.7	61.7	60.7	61.0
72.5°	211.6	145.4	95.3	71.7	64.8	62.7	61.4	60.3	60.0	59.3	59.7
75°	140.9	115.2	79.6	60.0	55.2	53.8	54.5	53.5	53.8	53.1	53.5
77.5°	113.8	99.1	67.6	50.7	47.3	45.3	46.6	47.0	47.7	47.0	46.6
80°	95.3	84.4	56.6	41.8	39.4	37.7	38.4	40.8	41.1	39.1	38.7
82.5°	61.7	67.9	44.6	32.6	30.2	29.5	31.2	33.6	34.3	31.5	30.9
85°	51.8	54.5	32.2	22.3	19.9	19.2	22.6	25.0	26.7	24.0	23.3
87.5°	14.4	26.7	15.8	10.6	8.9	8.9	11.0	13.0	15.4	15.8	15.8
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)