

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: P572789

Luminaire Tested: **ARCH-S-PA2-110-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11992 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 114.2
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: 24 FT

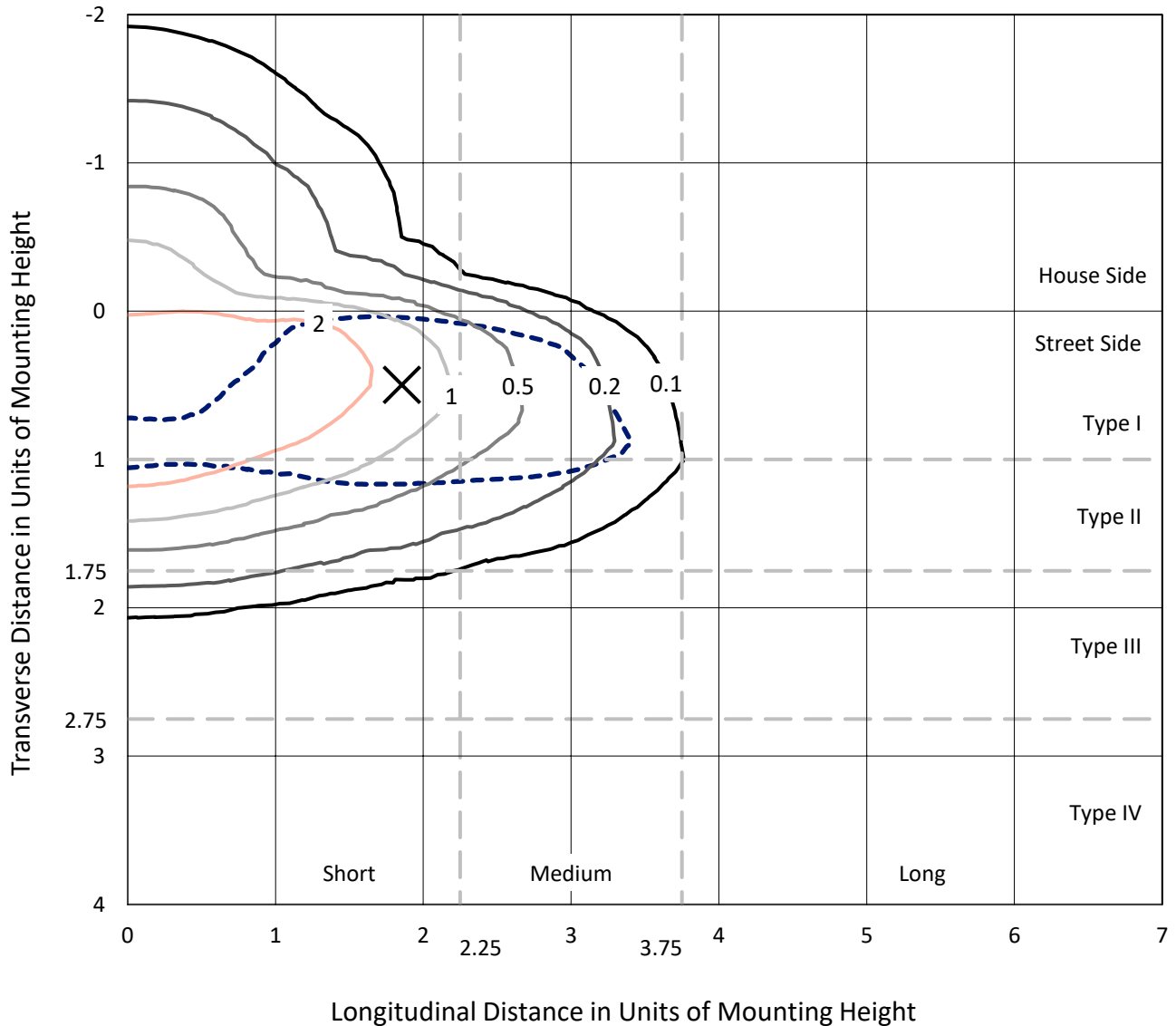




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Iso-Footcandle Lines of Horizontal Illumination

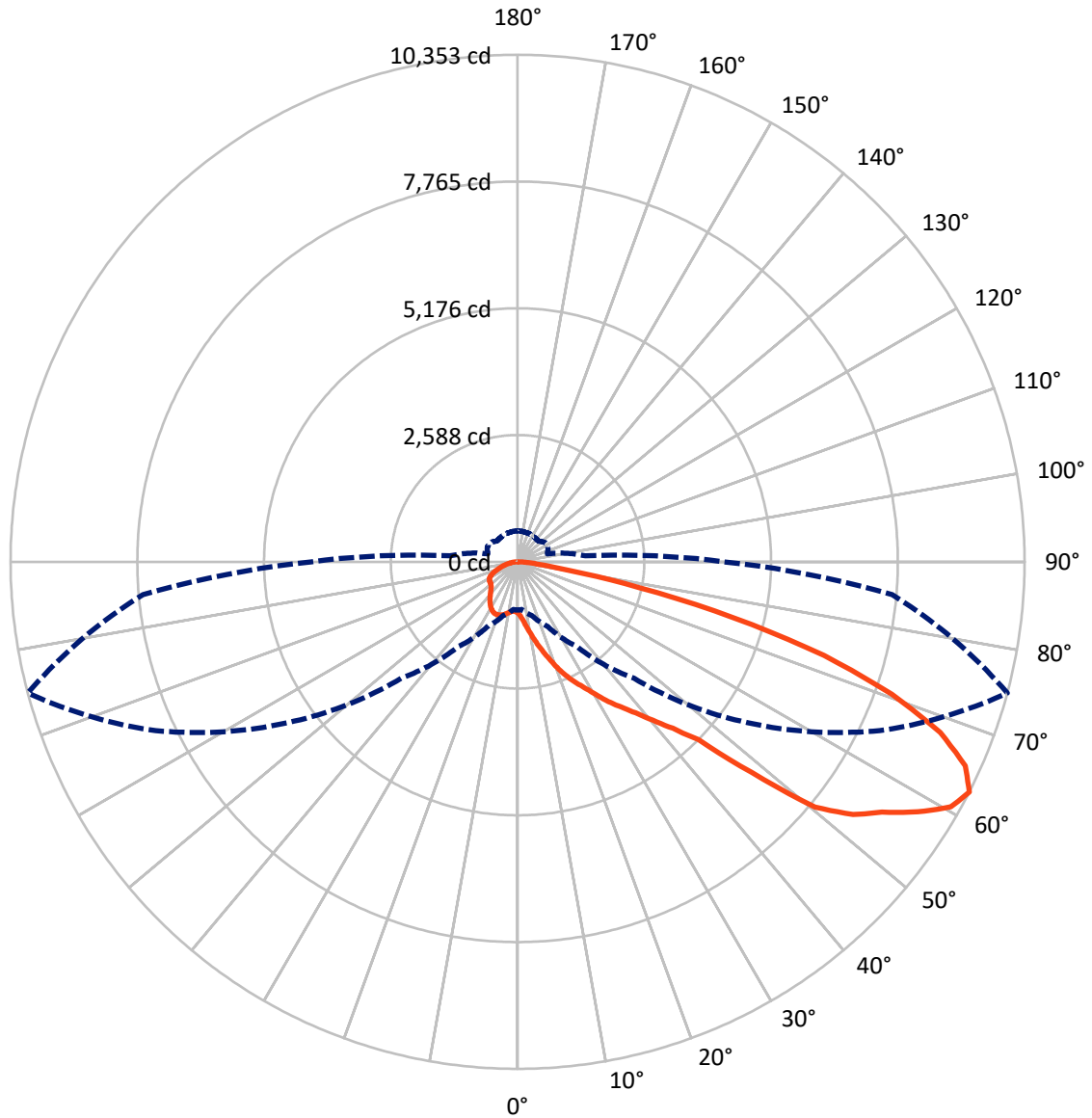
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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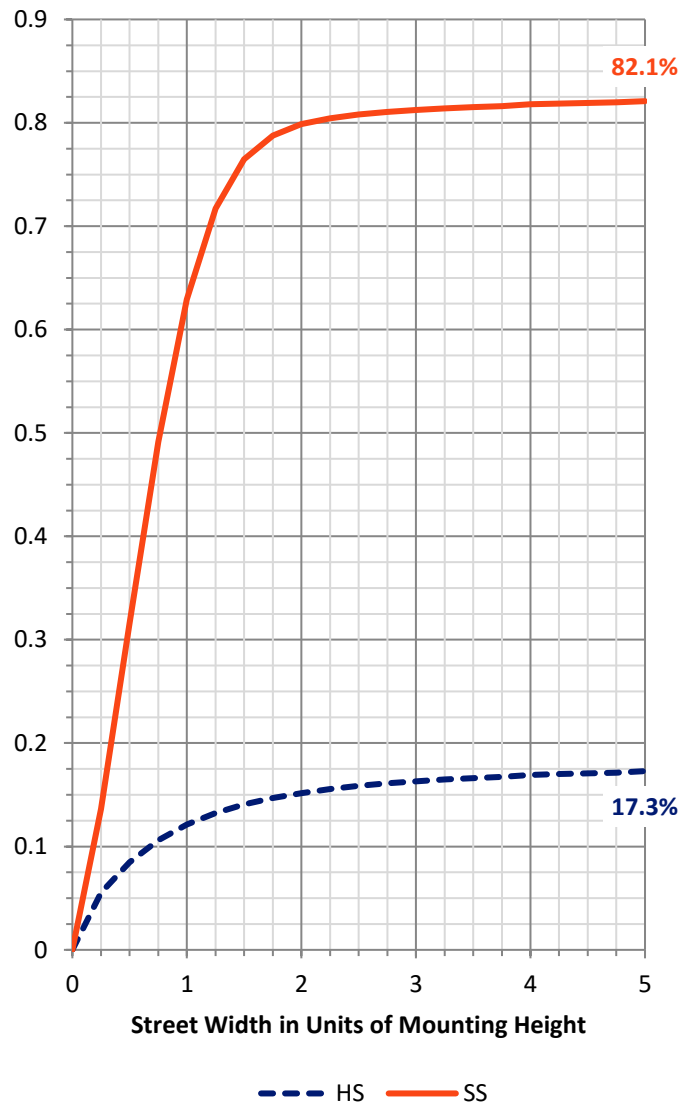
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2115.0	0.0	2115.0
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9876.9	0.0	9876.9
	% Fixture	82.4	0.0	82.4
Total	Lumens	11992.0	0.0	11992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	1.0
10°-20°	496.2	4.1
20°-30°	981.7	8.2
30°-40°	1636.4	13.6
40°-50°	2414.7	20.1
50°-60°	2902.7	24.2
60°-70°	2256.0	18.8
70°-80°	998.0	8.3
80°-90°	180.7	1.5
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°	11992.0	100.0
0°-180°	11992.0	100.0

Coefficient of Utilization

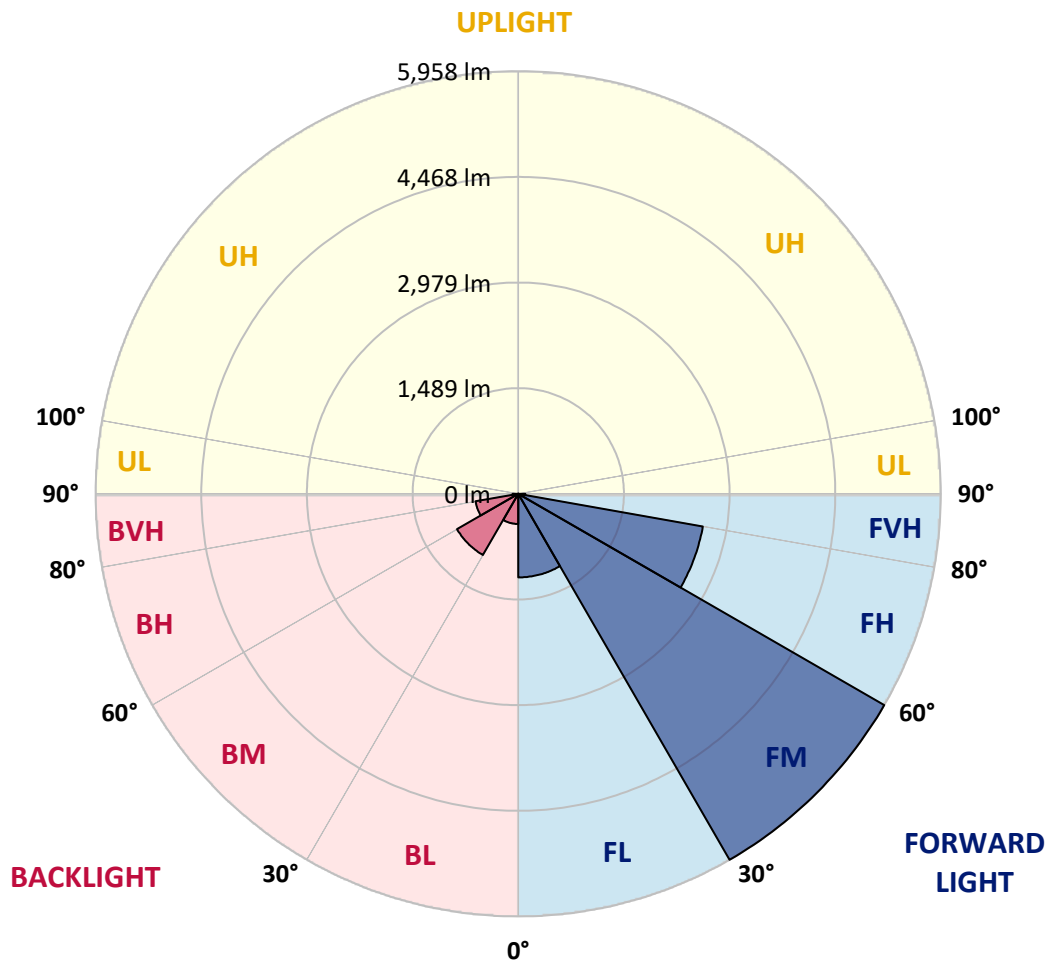


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.9	9.8			
FM (30°-60°)	5957.6	49.7			
FH (60°-80°)	2642.1	22.0			G2/5000
FVH (80°-90°)	99.3	0.8			G1/100
BL (0°-30°)	425.6	3.5	B1/500		
BM (30°-60°)	996.2	8.3	B1/1000		
BH (60°-80°)	611.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	81.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1336.6	1297.7	1297.7	1255.7	1258.9	1223.3	1184.5	1145.6	1103.6	1071.2	1055.0
5°	1747.6	1718.4	1708.7	1660.2	1582.5	1495.1	1401.3	1304.2	1203.9	1126.2	1087.4
7.5°	2132.7	2110.0	2097.1	2042.1	1935.3	1841.4	1692.6	1514.6	1343.0	1197.4	1139.2
10°	2417.5	2401.3	2375.4	2349.5	2271.8	2190.9	2006.5	1754.0	1501.6	1284.8	1197.4
12.5°	2624.6	2601.9	2601.9	2598.7	2546.9	2472.5	2301.0	2029.1	1686.1	1381.9	1262.1
15°	2763.7	2760.5	2770.2	2789.6	2776.7	2728.1	2556.6	2281.5	1873.8	1491.9	1336.6
17.5°	2867.3	2854.4	2873.8	2925.6	2964.4	2945.0	2802.6	2524.3	2080.9	1611.6	1417.5
20°	2980.6	2954.7	2980.6	3045.3	3093.8	3123.0	3055.0	2757.3	2304.2	1741.1	1495.1
22.5°	3197.4	3194.2	3181.2	3200.6	3233.0	3284.8	3245.9	2993.5	2521.0	1870.5	1585.8
25°	3585.7	3550.1	3514.6	3472.5	3436.9	3453.1	3420.7	3213.6	2718.4	2012.9	1663.4
27.5°	4019.4	3980.6	3915.8	3812.3	3715.2	3656.9	3589.0	3404.5	2909.4	2142.4	1737.9
30°	4417.5	4404.5	4307.4	4194.2	4025.9	3919.1	3789.6	3624.6	3139.1	2284.8	1815.5
32.5°	4789.6	4763.7	4666.6	4546.9	4349.5	4229.8	4051.8	3864.1	3401.3	2459.5	1896.4
35°	5110.0	5084.1	4970.9	4818.8	4647.2	4543.7	4339.8	4077.7	3640.8	2611.6	1964.4
37.5°	5352.7	5323.6	5216.8	5067.9	4915.8	4867.3	4692.5	4349.5	3912.6	2802.6	2048.5
40°	5488.7	5453.1	5381.9	5278.3	5152.1	5129.4	5055.0	4686.1	4255.6	3035.6	2171.5
42.5°	5504.8	5472.5	5433.6	5423.9	5414.2	5433.6	5469.2	5067.9	4647.2	3346.3	2352.7
45°	5362.4	5343.0	5346.3	5456.3	5608.4	5786.4	6000.0	5631.0	5174.7	3938.5	2760.5
47.5°	5058.2	5048.5	5119.7	5304.2	5644.0	6048.5	6653.7	6595.4	6423.9	4893.2	3284.8
50°	4566.3	4550.1	4702.2	4993.5	5478.9	6135.9	7093.8	7731.4	7873.8	5634.3	3627.8
52.5°	3860.8	3880.2	4116.5	4514.5	5100.3	6042.0	7275.1	8197.4	8572.8	6181.2	3890.0
55°	3139.1	3110.0	3323.6	3815.5	4540.4	5699.0	7310.7	8466.0	9025.9	6686.1	4145.6
57.5°	2288.0	2359.2	2585.8	3032.4	3818.8	5077.7	7103.5	8650.5	9634.3	7190.9	4381.9
60°	1550.2	1550.2	1750.8	2197.4	2951.4	4323.6	6550.1	8582.5	10165.0	7585.7	4433.6
62.5°	987.1	977.3	1139.2	1456.3	2113.3	3359.2	5721.7	8155.3	10352.7	7679.6	4216.8
65°	624.6	637.5	695.8	890.0	1352.7	2385.1	4592.2	7304.2	10045.3	7462.8	3838.2
67.5°	501.6	504.9	534.0	614.9	831.7	1530.7	3404.5	6129.4	9310.6	6915.8	3394.8
70°	443.4	449.8	456.3	485.4	569.6	967.6	2236.2	4935.3	8106.8	5964.4	2919.1
72.5°	404.5	411.0	417.5	423.9	469.3	631.1	1320.4	3741.1	6540.4	4582.5	2226.5
75°	372.2	378.6	378.6	381.9	407.8	469.3	724.9	2579.3	4553.4	2851.1	1388.3
77.5°	333.3	336.6	336.6	343.0	368.9	368.9	449.8	1595.5	2527.5	1291.3	702.3
80°	281.6	288.0	288.0	297.7	323.6	284.8	301.0	815.5	1048.5	530.7	313.9
82.5°	207.1	220.1	226.5	242.7	258.9	216.8	216.8	411.0	443.4	236.2	168.3
85°	113.3	116.5	168.3	181.2	190.9	129.4	145.6	203.9	220.1	103.6	84.1
87.5°	32.4	35.6	80.9	100.3	90.6	55.0	61.5	77.7	77.7	29.1	22.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3	1045.3
2.5°	1042.1	1016.2	993.5	977.3	961.2	951.5	948.2	941.7	941.7	945.0
5°	1055.0	1009.7	974.1	954.7	941.7	935.3	932.0	932.0	935.3	935.3
7.5°	1087.4	1019.4	987.1	970.9	957.9	951.5	951.5	948.2	951.5	951.5
10°	1132.7	1048.5	1012.9	993.5	983.8	974.1	970.9	967.6	967.6	967.6
12.5°	1181.2	1080.9	1042.1	1019.4	1003.2	990.3	983.8	977.3	974.1	974.1
15°	1226.5	1113.3	1061.5	1035.6	1012.9	993.5	980.6	970.9	967.6	967.6
17.5°	1275.1	1135.9	1074.4	1038.8	1009.7	983.8	967.6	954.7	948.2	948.2
20°	1326.9	1152.1	1074.4	1029.1	990.3	964.4	945.0	932.0	919.1	919.1
22.5°	1368.9	1158.6	1061.5	1006.5	967.6	935.3	915.9	899.7	890.0	890.0
25°	1404.5	1152.1	1032.4	970.9	925.6	896.4	877.0	864.1	854.4	854.4
27.5°	1427.2	1126.2	996.8	932.0	890.0	860.8	847.9	834.9	828.5	828.5
30°	1440.1	1093.8	951.5	890.0	847.9	831.7	825.2	812.3	802.6	799.3
32.5°	1446.6	1045.3	906.1	847.9	818.8	812.3	812.3	796.1	783.2	779.9
35°	1440.1	993.5	860.8	812.3	802.6	805.8	799.3	779.9	763.8	757.3
37.5°	1430.4	932.0	812.3	786.4	796.1	802.6	783.2	757.3	731.4	724.9
40°	1423.9	877.0	773.5	760.5	789.6	792.9	757.3	708.7	689.3	682.8
42.5°	1456.3	822.0	737.9	741.1	773.5	776.7	712.0	689.3	676.4	673.1
45°	1566.3	773.5	708.7	728.2	754.0	741.1	689.3	686.1	676.4	673.1
47.5°	1650.5	737.9	695.8	718.4	737.9	692.6	686.1	682.8	673.1	669.9
50°	1679.6	715.2	692.6	712.0	715.2	669.9	679.6	679.6	669.9	666.7
52.5°	1682.8	702.3	699.0	708.7	679.6	660.2	673.1	673.1	663.4	660.2
55°	1695.8	695.8	702.3	708.7	640.8	647.2	660.2	663.4	653.7	650.5
57.5°	1669.9	686.1	708.7	712.0	624.6	634.3	647.2	647.2	647.2	647.2
60°	1569.6	666.7	705.5	705.5	611.6	618.1	631.1	637.5	640.8	640.8
62.5°	1385.1	627.8	686.1	686.1	598.7	605.2	621.4	621.4	631.1	631.1
65°	1152.1	572.8	647.2	644.0	585.8	592.2	611.6	605.2	621.4	624.6
67.5°	961.2	504.9	589.0	595.5	572.8	589.0	601.9	579.3	611.6	611.6
70°	767.0	423.9	511.3	540.5	550.2	592.2	582.5	546.9	589.0	579.3
72.5°	595.5	359.2	420.7	472.5	524.3	589.0	540.5	501.6	527.5	511.3
75°	433.7	297.7	346.3	391.6	488.7	579.3	498.4	440.1	440.1	433.7
77.5°	304.2	242.7	278.3	310.7	453.1	553.4	446.6	378.6	362.5	359.2
80°	207.1	190.9	220.1	239.5	401.3	501.6	385.1	313.9	284.8	278.3
82.5°	135.9	135.9	148.9	161.8	310.7	417.5	301.0	233.0	301.0	288.0
85°	77.7	80.9	80.9	93.9	171.5	294.5	213.6	233.0	139.2	129.4
87.5°	25.9	25.9	25.9	25.9	35.6	119.7	90.6	84.1	32.4	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)