

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: P572842

Luminaire Tested: **ARCH-S-PA2-120-750-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-750-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12026 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

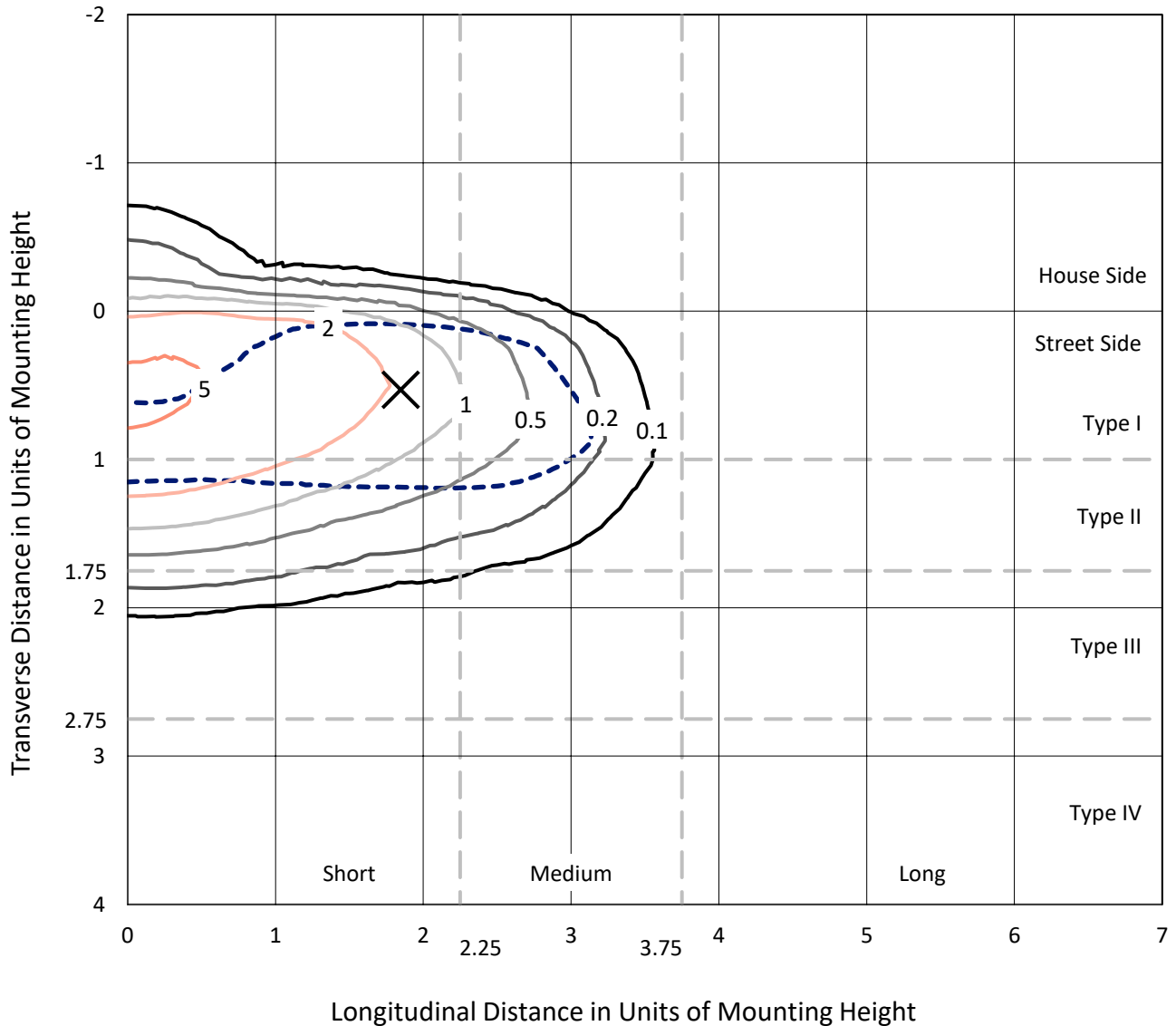
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

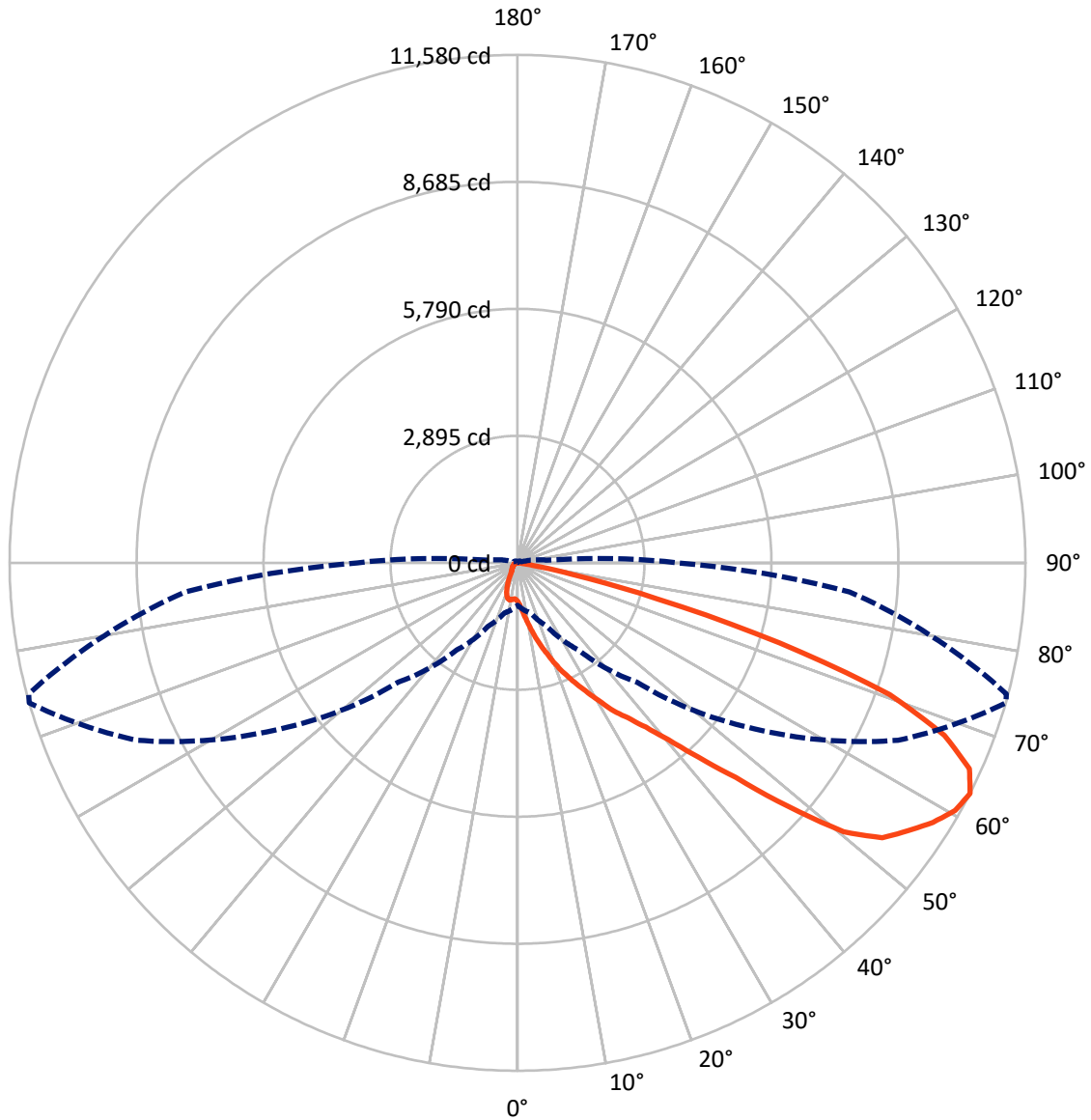
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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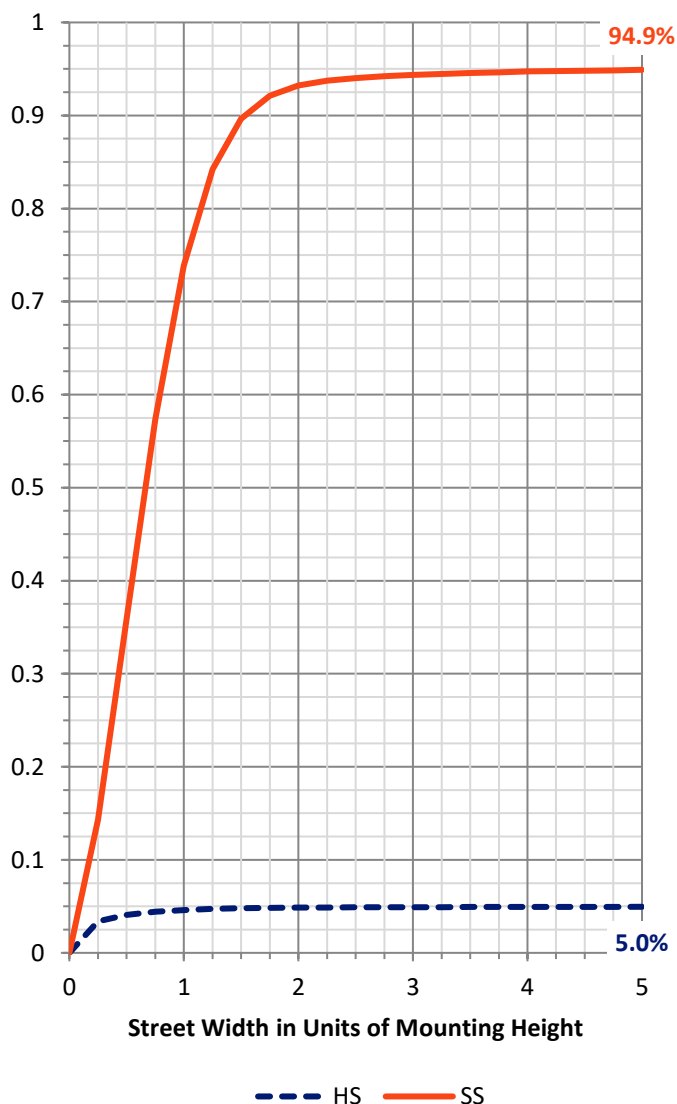
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.8	0.0	599.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11426.2	0.0	11426.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	12026.0	0.0	12026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	0.9
10°-20°	462.5	3.8
20°-30°	992.4	8.3
30°-40°	1740.6	14.5
40°-50°	2698.4	22.4
50°-60°	3110.8	25.9
60°-70°	2185.4	18.2
70°-80°	680.9	5.7
80°-90°	45.0	0.4
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°	12026.0	100.0
0°-180°	12026.0	100.0

Coefficient of Utilization

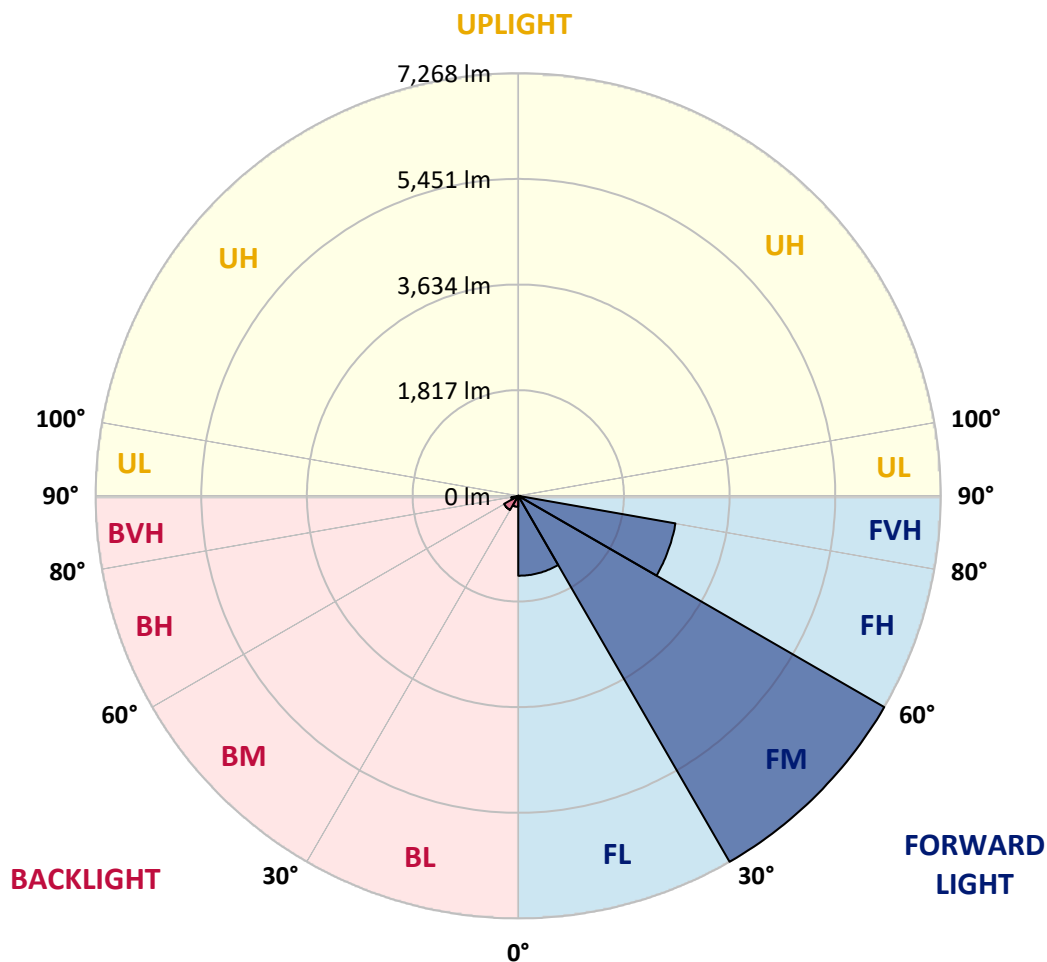


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.6	11.4			
FM (30°-60°)	7267.9	60.4			
FH (60°-80°)	2744.9	22.8			G2/5000
FVH (80°-90°)	38.8	0.3			G1/100
BL (0°-30°)	190.4	1.6	B1/500		
BM (30°-60°)	281.9	2.3	B1/1000		
BH (60°-80°)	121.4	1.0	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3
2.5°	1223.2	1202.0	1176.6	1155.4	1113.1	1083.5	1045.4	1003.1	956.5	952.3	914.2
5°	1714.1	1650.6	1650.6	1595.6	1532.1	1417.9	1312.0	1180.8	1083.5	1075.0	973.5
7.5°	2217.8	2167.0	2137.4	2052.7	1951.1	1824.2	1654.9	1434.8	1257.0	1227.4	1062.3
10°	2687.6	2649.5	2594.5	2526.7	2437.9	2230.5	2018.9	1731.1	1447.5	1426.3	1168.1
12.5°	3051.6	3005.0	2979.6	2950.0	2835.7	2670.6	2395.5	2031.6	1693.0	1646.4	1274.0
15°	3326.7	3305.5	3280.1	3280.1	3220.9	3060.0	2776.5	2353.2	1930.0	1875.0	1409.4
17.5°	3546.8	3521.4	3517.1	3542.5	3525.6	3411.3	3144.7	2662.2	2175.5	2133.1	1549.1
20°	3792.2	3758.4	3758.4	3779.5	3775.3	3711.8	3479.0	3017.7	2463.3	2387.1	1709.9
22.5°	4139.3	4118.1	4101.2	4067.3	4041.9	3982.7	3779.5	3364.8	2738.4	2666.4	1875.0
25°	4604.9	4579.5	4503.3	4444.0	4334.0	4245.1	4071.6	3673.7	3017.7	2937.3	2035.8
27.5°	5057.7	5006.9	4935.0	4858.8	4736.1	4583.7	4367.8	3965.8	3309.7	3225.1	2200.9
30°	5536.0	5497.9	5409.0	5286.3	5133.9	4964.6	4706.4	4317.1	3644.1	3551.0	2378.6
32.5°	5916.9	5857.6	5777.2	5658.7	5502.1	5383.6	5104.3	4702.2	4029.2	3906.5	2564.8
35°	6221.6	6175.1	6069.3	5955.0	5836.5	5802.6	5497.9	5015.4	4338.2	4223.9	2763.8
37.5°	6416.3	6369.8	6280.9	6166.6	6120.1	6179.3	5980.4	5442.9	4753.0	4609.1	2992.3
40°	6568.7	6513.7	6441.7	6390.9	6374.0	6539.1	6517.9	5997.3	5299.0	5214.3	3305.5
42.5°	6678.7	6623.7	6577.2	6572.9	6683.0	7004.6	7241.6	6771.8	6060.8	5887.3	3707.6
45°	6539.1	6492.5	6517.9	6666.0	6932.7	7440.6	8117.8	7868.0	6979.2	6856.5	4350.9
47.5°	6149.7	6120.1	6234.3	6505.2	7000.4	7707.2	8964.2	9070.0	8291.3	8105.1	5184.7
50°	5540.2	5536.0	5718.0	6086.2	6788.8	7808.8	9391.7	10225.5	9637.2	9446.7	5861.9
52.5°	4714.9	4698.0	4964.6	5476.7	6289.4	7618.3	9472.1	10686.8	10415.9	10191.6	6289.4
55°	3779.5	3741.4	4058.9	4621.8	5552.9	7063.9	9256.3	10788.4	10788.4	10585.2	6606.8
57.5°	2657.9	2717.2	2979.6	3656.8	4642.9	6234.3	8723.0	10695.3	11165.1	10991.6	7034.3
60°	1676.0	1701.4	1989.2	2535.2	3521.4	5125.4	7770.7	10293.2	11465.6	11364.0	7377.1
62.5°	965.0	1045.4	1189.3	1604.1	2429.4	3851.5	6594.1	9569.5	11579.9	11537.5	7601.4
65°	588.3	596.8	664.5	905.7	1494.0	2628.3	5277.8	8562.2	11321.7	11359.8	7559.1
67.5°	440.2	440.2	461.3	571.4	850.7	1671.8	3893.8	7339.0	10496.4	10619.1	7161.2
70°	380.9	380.9	385.1	419.0	524.8	990.4	2573.3	5916.9	8998.1	8985.4	5916.9
72.5°	300.5	313.2	338.6	355.5	397.8	579.8	1506.7	4135.1	6251.3	6399.4	3809.2
75°	241.2	245.5	279.3	309.0	334.4	393.6	711.0	2298.2	3280.1	3280.1	1676.0
77.5°	186.2	194.7	215.9	245.5	279.3	279.3	296.3	888.8	1269.7	1227.4	495.2
80°	118.5	122.7	156.6	194.7	232.8	198.9	160.8	296.3	347.1	334.4	135.4
82.5°	72.0	76.2	101.6	156.6	156.6	110.0	101.6	122.7	110.0	101.6	55.0
85°	21.2	25.4	72.0	101.6	88.9	42.3	50.8	55.0	50.8	46.6	29.6
87.5°	4.2	4.2	21.2	25.4	21.2	21.2	16.9	21.2	21.2	21.2	12.7
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°	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3	880.3
2.5°	893.0	876.1	842.2	816.9	795.7	774.5	757.6	753.4	744.9	744.9	740.7
5°	931.1	893.0	829.6	787.2	753.4	723.7	698.3	673.0	664.5	656.0	660.3
7.5°	990.4	931.1	842.2	778.8	719.5	651.8	596.8	550.2	516.4	507.9	495.2
10°	1066.6	977.7	863.4	761.8	651.8	533.3	457.1	410.5	393.6	372.5	376.7
12.5°	1142.7	1032.7	880.3	715.3	537.5	419.0	355.5	325.9	313.2	309.0	313.2
15°	1231.6	1092.0	871.9	630.6	431.7	338.6	300.5	287.8	279.3	279.3	275.1
17.5°	1320.5	1142.7	842.2	520.6	347.1	287.8	270.9	258.2	249.7	245.5	245.5
20°	1417.9	1189.3	774.5	414.8	287.8	262.4	245.5	228.5	220.1	220.1	220.1
22.5°	1519.4	1223.2	685.6	330.1	258.2	232.8	215.9	203.2	194.7	194.7	194.7
25°	1608.3	1240.1	579.8	275.1	237.0	211.6	194.7	182.0	177.8	173.5	173.5
27.5°	1693.0	1235.9	469.8	241.2	211.6	190.5	173.5	165.1	156.6	156.6	156.6
30°	1777.6	1210.5	372.5	220.1	194.7	169.3	156.6	148.1	143.9	139.7	139.7
32.5°	1849.6	1168.1	292.0	203.2	177.8	152.4	139.7	131.2	131.2	127.0	127.0
35°	1921.5	1104.7	245.5	190.5	160.8	139.7	127.0	122.7	118.5	118.5	118.5
37.5°	1997.7	1024.2	215.9	173.5	143.9	127.0	118.5	114.3	110.0	105.8	105.8
40°	2090.8	943.8	203.2	160.8	131.2	114.3	105.8	101.6	97.3	97.3	97.3
42.5°	2238.9	876.1	190.5	143.9	118.5	105.8	97.3	88.9	88.9	84.6	84.6
45°	2518.3	850.7	177.8	131.2	110.0	93.1	88.9	80.4	76.2	76.2	76.2
47.5°	2882.3	854.9	165.1	118.5	101.6	84.6	80.4	76.2	67.7	67.7	67.7
50°	3182.8	833.8	152.4	110.0	88.9	80.4	72.0	67.7	63.5	63.5	63.5
52.5°	3301.3	795.7	139.7	101.6	84.6	72.0	67.7	63.5	59.3	59.3	59.3
55°	3419.8	778.8	127.0	88.9	76.2	72.0	63.5	59.3	55.0	50.8	50.8
57.5°	3635.6	787.2	114.3	84.6	72.0	67.7	59.3	50.8	42.3	38.1	38.1
60°	3749.9	757.6	105.8	76.2	67.7	63.5	50.8	38.1	29.6	25.4	25.4
62.5°	3652.6	673.0	97.3	72.0	63.5	55.0	38.1	29.6	21.2	12.7	12.7
65°	3381.7	554.4	88.9	67.7	55.0	42.3	33.9	21.2	12.7	8.5	8.5
67.5°	3038.9	435.9	80.4	63.5	50.8	38.1	29.6	16.9	8.5	4.2	4.2
70°	2454.8	313.2	76.2	59.3	46.6	33.9	25.4	16.9	8.5	4.2	4.2
72.5°	1582.9	203.2	67.7	55.0	42.3	33.9	21.2	12.7	8.5	4.2	4.2
75°	732.2	135.4	63.5	50.8	42.3	29.6	21.2	16.9	8.5	4.2	4.2
77.5°	215.9	97.3	59.3	46.6	38.1	29.6	21.2	16.9	8.5	4.2	4.2
80°	88.9	67.7	46.6	42.3	38.1	29.6	21.2	16.9	8.5	4.2	4.2
82.5°	42.3	29.6	21.2	16.9	21.2	21.2	16.9	16.9	8.5	4.2	4.2
85°	21.2	12.7	8.5	8.5	8.5	4.2	4.2	8.5	8.5	4.2	4.2
87.5°	12.7	8.5	8.5	8.5	4.2	4.2	4.2	0.0	0.0	0.0	0.0
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)