

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: P236834

Luminaire Tested: **ARCH-L-AF72-210-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24510.1 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

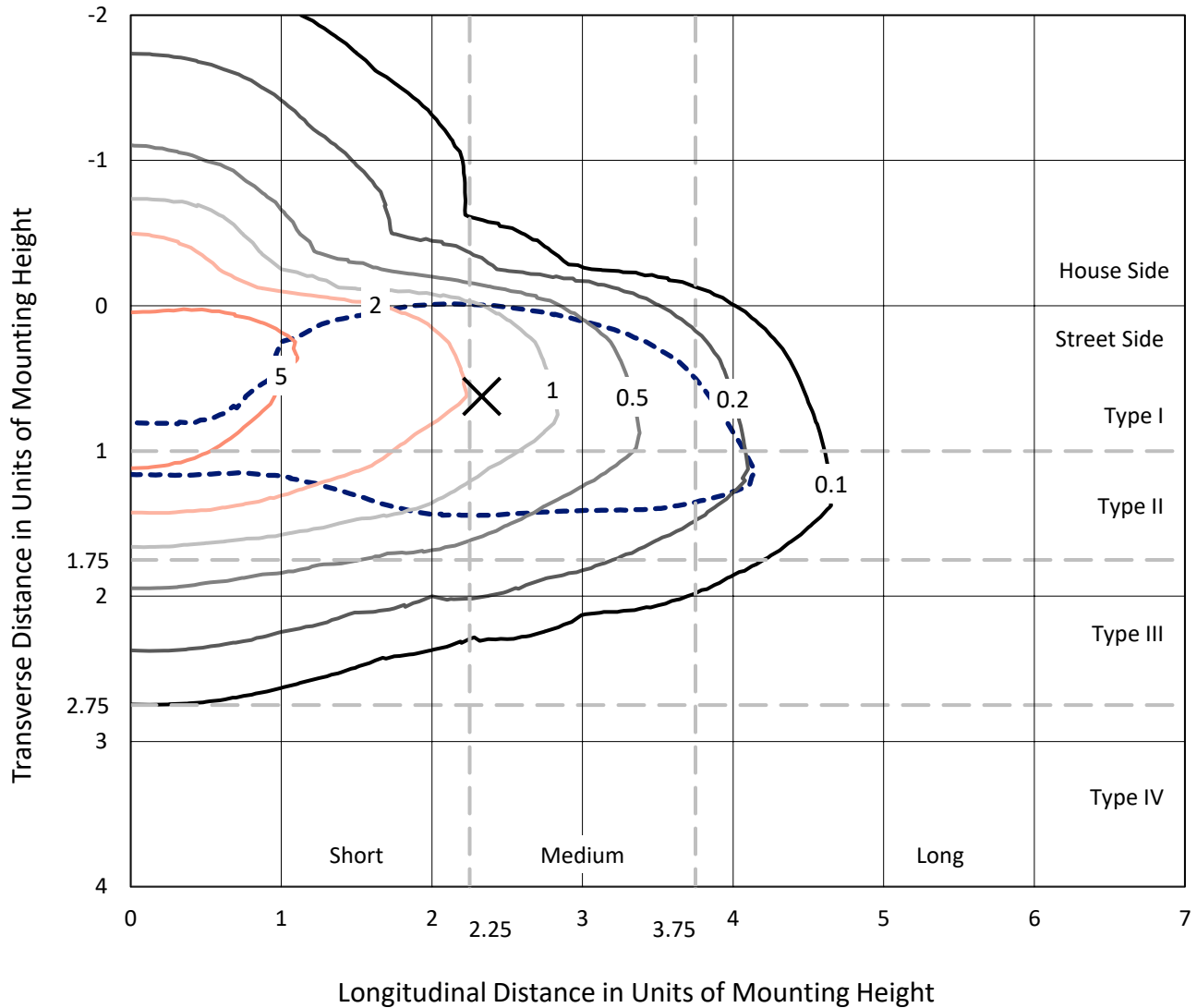
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

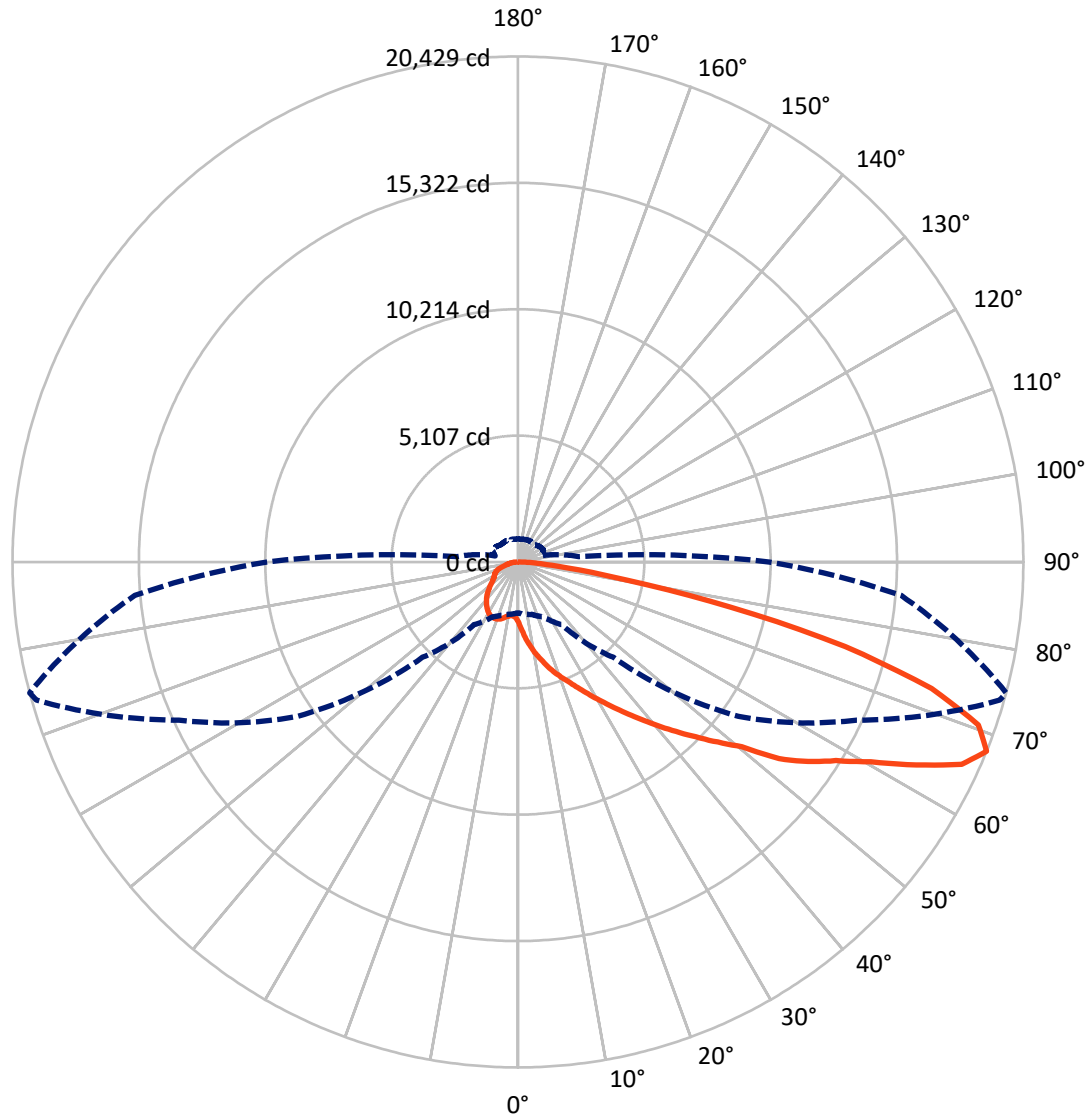
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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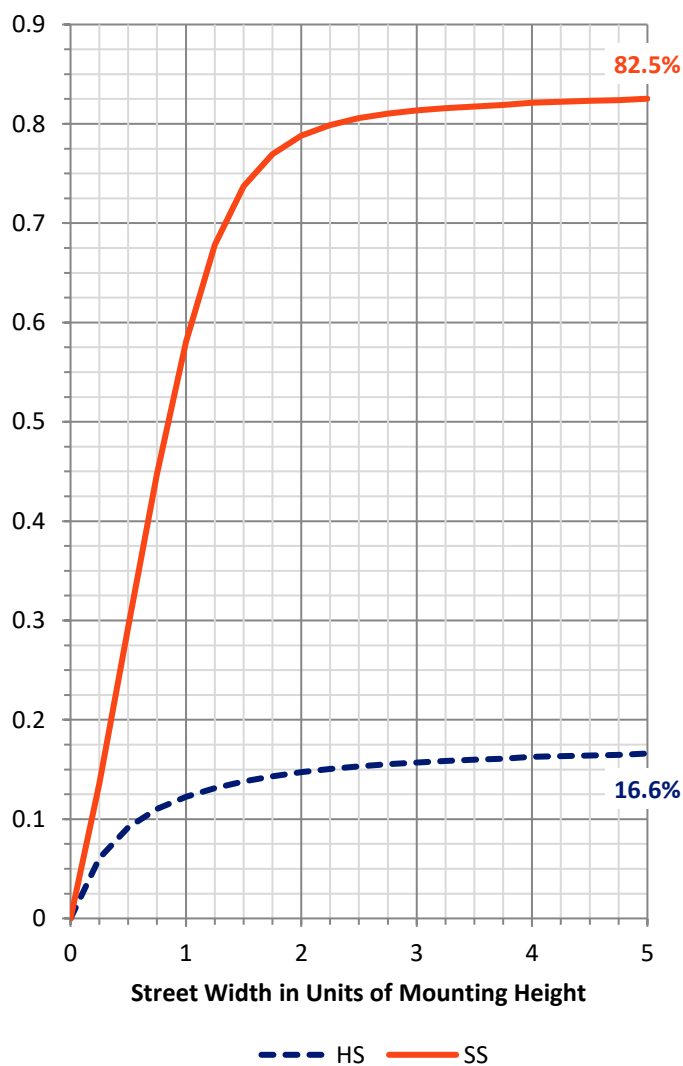
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4185.4	0.0	4185.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20324.7	0.0	20324.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	24510.1	0.0	24510.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	1.2
10°-20°	1031.1	4.2
20°-30°	1880.7	7.7
30°-40°	3087.0	12.6
40°-50°	4464.2	18.2
50°-60°	5261.1	21.5
60°-70°	5112.5	20.9
70°-80°	2841.8	11.6
80°-90°	546.4	2.2
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°	24510.1	100.0
0°-180°	24510.1	100.0

Coefficient of Utilization

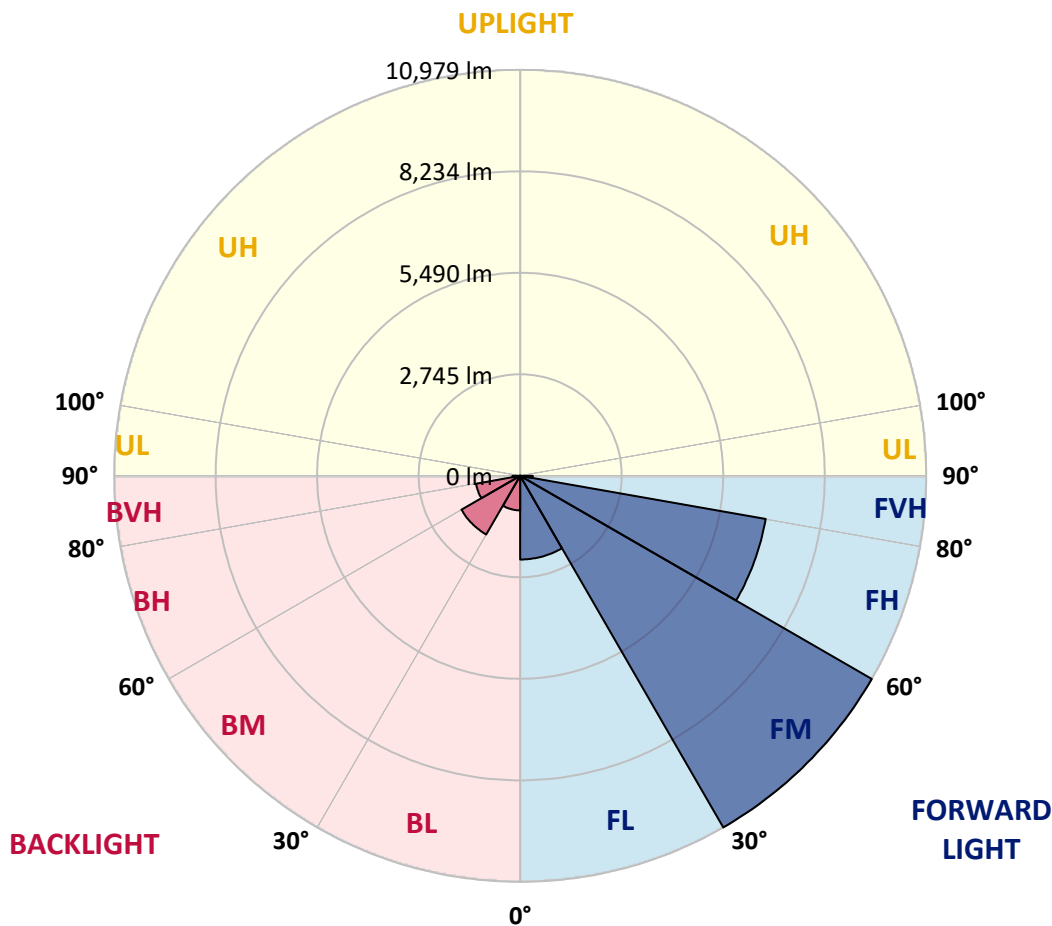


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.9	9.2			
FM (30°-60°)	10979.2	44.8			
FH (60°-80°)	6742.5	27.5			G3/7500
FVH (80°-90°)	340.1	1.4			G3/500
BL (0°-30°)	934.2	3.8	B2/1000		
BM (30°-60°)	1833.0	7.5	B2/2500		
BH (60°-80°)	1211.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	206.4	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	3443.2	3453.4	3433.0	3386.9	3320.3	3197.3	3089.8	2900.1	2731.1	2710.5	2531.2
5°	4047.8	4058.1	4032.4	3976.2	3904.4	3771.2	3622.6	3376.6	3105.0	3053.8	2674.6
7.5°	4462.9	4468.0	4437.2	4380.9	4324.6	4191.3	4042.7	3766.0	3433.0	3392.0	2859.1
10°	4816.4	4826.6	4785.7	4749.8	4688.4	4555.1	4401.4	4109.3	3766.0	3709.7	3048.7
12.5°	5144.4	5154.7	5128.9	5098.2	5077.8	4954.8	4785.7	4437.2	4068.4	4006.9	3274.2
15°	5364.7	5374.9	5380.0	5421.0	5446.7	5359.6	5190.5	4811.3	4396.3	4339.9	3540.5
17.5°	5303.2	5328.8	5405.7	5554.3	5713.1	5718.2	5579.9	5180.2	4719.1	4657.6	3812.2
20°	5123.8	5144.4	5236.6	5462.1	5774.6	5954.0	5943.7	5554.3	5021.3	4954.8	4063.3
22.5°	5272.5	5298.1	5298.1	5436.4	5743.9	6076.9	6210.1	5923.2	5323.6	5262.3	4314.3
25°	5907.8	5923.2	5815.6	5759.3	5871.9	6179.3	6430.5	6322.9	5692.6	5620.9	4585.8
27.5°	6794.3	6768.6	6635.5	6409.9	6287.0	6368.9	6625.2	6702.1	6117.9	6030.8	4867.7
30°	7675.6	7660.1	7506.4	7204.1	6927.5	6753.2	6840.4	7040.2	6579.0	6476.6	5139.2
32.5°	8500.5	8474.9	8305.8	7952.2	7639.7	7316.9	7147.8	7347.5	7070.9	6953.0	5441.5
35°	9258.8	9192.2	9023.1	8654.2	8331.4	8024.0	7609.0	7639.7	7603.8	7480.9	5774.6
37.5°	9873.6	9822.4	9638.0	9294.6	8951.4	8659.4	8223.8	7972.7	8177.7	8059.8	6158.8
40°	10416.8	10360.5	10170.8	9827.6	9509.9	9233.2	8889.9	8377.6	8823.3	8690.1	6589.3
42.5°	10826.7	10785.7	10632.0	10293.9	9986.4	9735.3	9566.3	8889.9	9494.5	9366.5	7060.7
45°	11047.1	11006.1	10924.1	10652.6	10370.7	10176.0	10191.3	9499.6	10196.5	10088.9	7619.2
47.5°	10775.4	10806.3	10878.0	10826.7	10652.6	10560.4	10749.9	10129.9	10980.4	10878.0	8223.8
50°	10047.9	10078.6	10365.5	10719.1	10780.6	10893.3	11252.1	10857.5	11810.5	11728.6	8972.0
52.5°	8259.7	8428.8	9223.0	10068.4	10647.5	11113.7	11810.5	11938.6	13209.3	13209.3	10293.9
55°	6240.9	6389.5	7296.5	8772.1	10129.9	11134.2	12220.4	12671.4	14218.8	14239.2	10985.6
57.5°	5057.3	5149.5	5595.2	7106.8	9043.6	10878.0	12707.2	13301.6	15059.1	15151.3	11877.1
60°	4104.3	4155.4	4447.5	5497.9	7542.3	10186.2	13055.6	14203.3	16258.0	16386.1	13014.6
62.5°	3299.7	3351.0	3545.7	4176.0	5918.0	8889.9	12994.1	15141.0	17856.7	18066.8	14505.7
65°	2633.7	2690.1	2818.2	3207.6	4386.0	7281.0	12363.9	15622.7	19511.7	19716.6	15494.6
67.5°	2054.6	2105.9	2193.1	2449.1	3089.8	5446.7	10872.8	15115.4	20254.7	20428.9	15545.9
70°	1552.6	1578.1	1650.0	1813.8	2208.3	3617.5	8510.8	13414.3	19588.5	19747.4	14521.0
72.5°	1204.1	1199.0	1240.0	1321.9	1542.3	2490.2	5641.4	10908.7	17318.6	17482.7	12389.6
75°	983.8	978.6	1004.3	1029.9	1116.9	1670.3	3330.6	8213.6	13977.9	13665.4	9294.6
77.5°	830.1	824.9	850.6	855.7	891.5	1152.9	1895.8	5405.7	9325.4	8787.4	5236.6
80°	702.0	696.8	727.5	737.8	763.5	845.4	1091.4	2925.8	4683.2	4437.2	2500.4
82.5°	527.7	548.3	604.6	630.2	661.0	625.1	676.4	1291.2	2172.5	2075.2	1086.2
85°	256.2	302.3	456.0	507.3	543.1	394.5	461.2	609.7	978.6	932.5	440.7
87.5°	87.1	76.8	271.6	322.8	353.6	179.3	256.2	338.1	404.8	369.0	138.3
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°	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8	2428.8
2.5°	2454.3	2377.5	2264.7	2177.6	2121.3	2075.2	2054.6	2049.6	2039.4	2034.2	2034.2
5°	2505.6	2367.2	2193.1	2100.8	2075.2	2054.6	2064.9	2070.0	2070.0	2070.0	2070.0
7.5°	2582.5	2387.8	2177.6	2116.2	2111.0	2111.0	2141.8	2157.1	2167.3	2167.3	2167.3
10°	2684.9	2423.6	2203.2	2152.0	2167.3	2177.6	2213.5	2234.1	2244.3	2249.4	2254.4
12.5°	2823.3	2500.4	2254.4	2213.5	2234.1	2239.2	2264.7	2275.0	2285.2	2290.4	2290.4
15°	3007.7	2613.2	2336.5	2285.2	2290.4	2285.2	2285.2	2275.0	2269.9	2269.9	2280.1
17.5°	3197.3	2720.8	2408.2	2336.5	2316.0	2275.0	2244.3	2218.6	2203.2	2193.1	2198.2
20°	3386.9	2818.2	2449.1	2346.8	2290.4	2223.8	2167.3	2131.5	2111.0	2090.5	2100.8
22.5°	3576.5	2910.3	2464.6	2316.0	2234.1	2136.7	2075.2	2018.8	1972.6	1942.0	1947.1
25°	3786.5	3012.9	2464.6	2280.1	2157.1	2054.6	1977.8	1885.6	1818.9	1793.4	1803.7
27.5°	3996.6	3099.9	2439.0	2213.5	2070.0	1967.5	1854.9	1747.3	1706.3	1690.9	1696.0
30°	4206.7	3166.6	2382.6	2131.5	1977.8	1865.0	1716.5	1644.8	1593.5	1552.6	1557.7
32.5°	4416.8	3212.7	2305.7	2029.1	1880.5	1737.0	1614.0	1532.1	1439.8	1388.5	1393.7
35°	4657.6	3248.5	2213.5	1926.6	1772.8	1624.2	1532.1	1398.8	1301.5	1260.6	1250.3
37.5°	4908.7	3274.2	2116.2	1813.8	1665.2	1542.3	1450.1	1286.1	1193.8	1137.5	1132.4
40°	5180.2	3284.5	1998.4	1696.0	1562.7	1491.1	1342.5	1219.5	1060.7	1024.8	1024.8
42.5°	5503.1	3279.3	1880.5	1578.1	1450.1	1373.2	1265.5	1209.3	1070.8	1035.0	1014.5
45°	5871.9	3279.3	1752.4	1439.8	1337.4	1224.6	1178.5	1142.7	1050.4	1065.8	1075.9
47.5°	6292.1	3269.0	1598.7	1327.1	1245.1	1147.8	1122.1	1045.3	1009.4	1019.6	1029.9
50°	6871.1	3284.5	1460.2	1234.8	1178.5	1096.5	1065.8	1024.8	1009.4	1014.5	1009.4
52.5°	7675.6	3233.2	1327.1	1178.5	1127.2	1019.6	1019.6	1014.5	1019.6	1014.5	1014.5
55°	8116.3	3120.5	1229.7	1147.8	1091.4	983.8	1004.3	1014.5	1024.8	1019.6	1019.6
57.5°	8741.3	3043.5	1152.9	1127.2	1070.8	973.5	994.0	1014.5	1019.6	1014.5	1014.5
60°	9479.2	2992.4	1101.7	1132.4	1055.6	973.5	999.1	1014.5	1009.4	1004.3	1004.3
62.5°	10334.9	2971.9	1065.8	1147.8	1040.1	978.6	999.1	1014.5	994.0	988.9	988.9
65°	10657.7	2787.4	1019.6	1158.0	1050.4	978.6	994.0	999.1	973.5	968.4	963.3
67.5°	10160.7	2469.7	953.1	1137.5	1081.1	978.6	978.6	973.5	942.8	937.7	927.4
70°	9048.8	2049.6	850.6	1070.8	1101.7	983.8	958.2	932.5	901.8	901.8	881.2
72.5°	7409.1	1614.0	717.3	953.1	1086.2	999.1	917.1	881.2	845.4	845.4	824.9
75°	5339.1	1204.1	573.8	794.2	1019.6	994.0	865.9	819.8	778.8	773.7	748.1
77.5°	3043.5	845.4	466.3	619.9	907.0	968.4	819.8	748.1	702.0	686.5	671.2
80°	1562.7	568.8	379.1	486.7	753.3	896.7	783.9	666.2	614.9	589.2	563.7
82.5°	743.0	379.1	292.0	358.7	568.8	783.9	737.8	573.8	517.6	486.7	456.0
85°	333.0	225.4	194.7	230.5	404.8	609.7	650.7	471.4	404.8	507.3	374.0
87.5°	107.6	102.4	102.4	107.6	194.7	266.5	476.5	348.4	322.8	266.5	225.4
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)