

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: P400273

Luminaire Tested: **ARCH-L-PA3-260-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28927 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

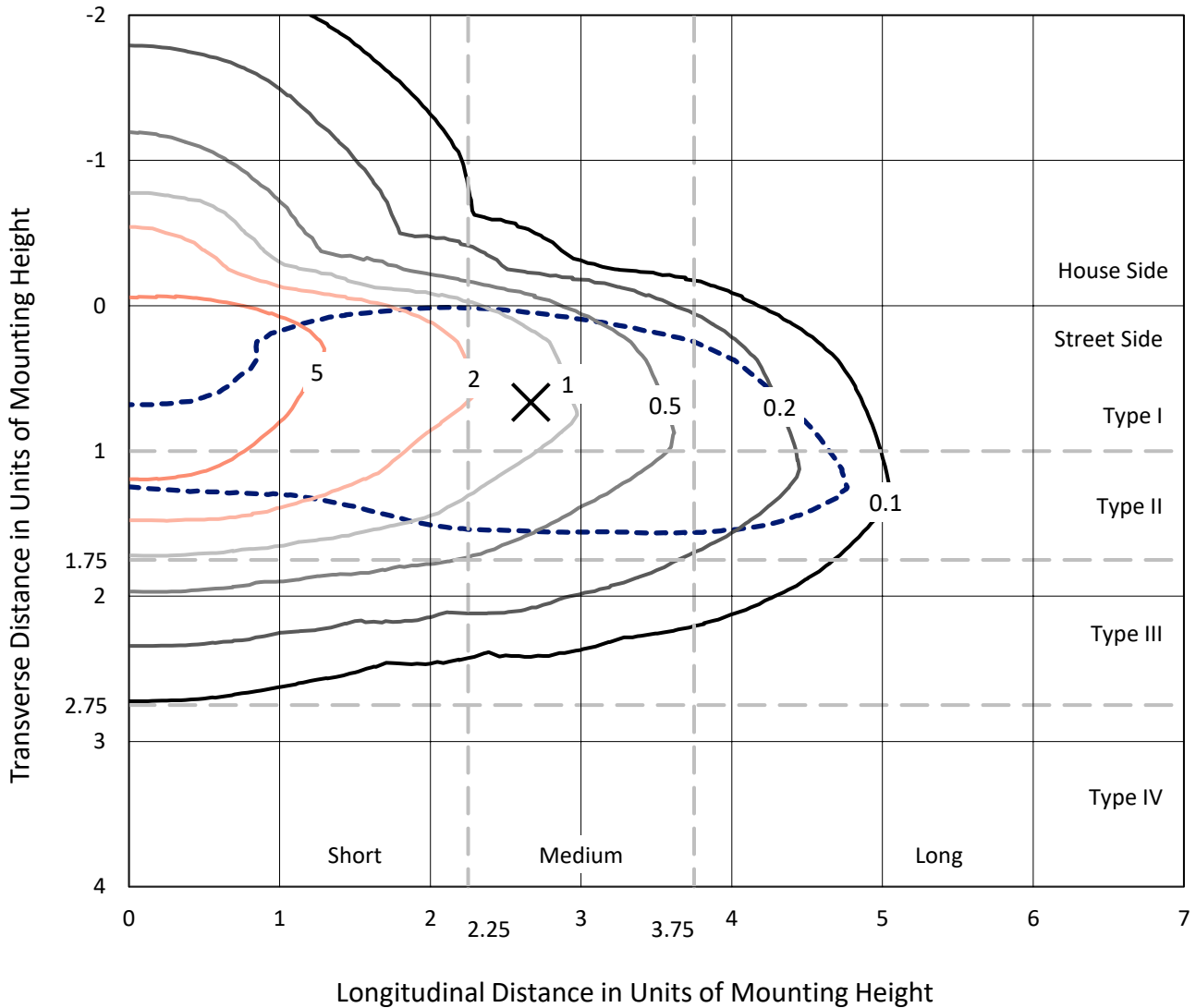
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

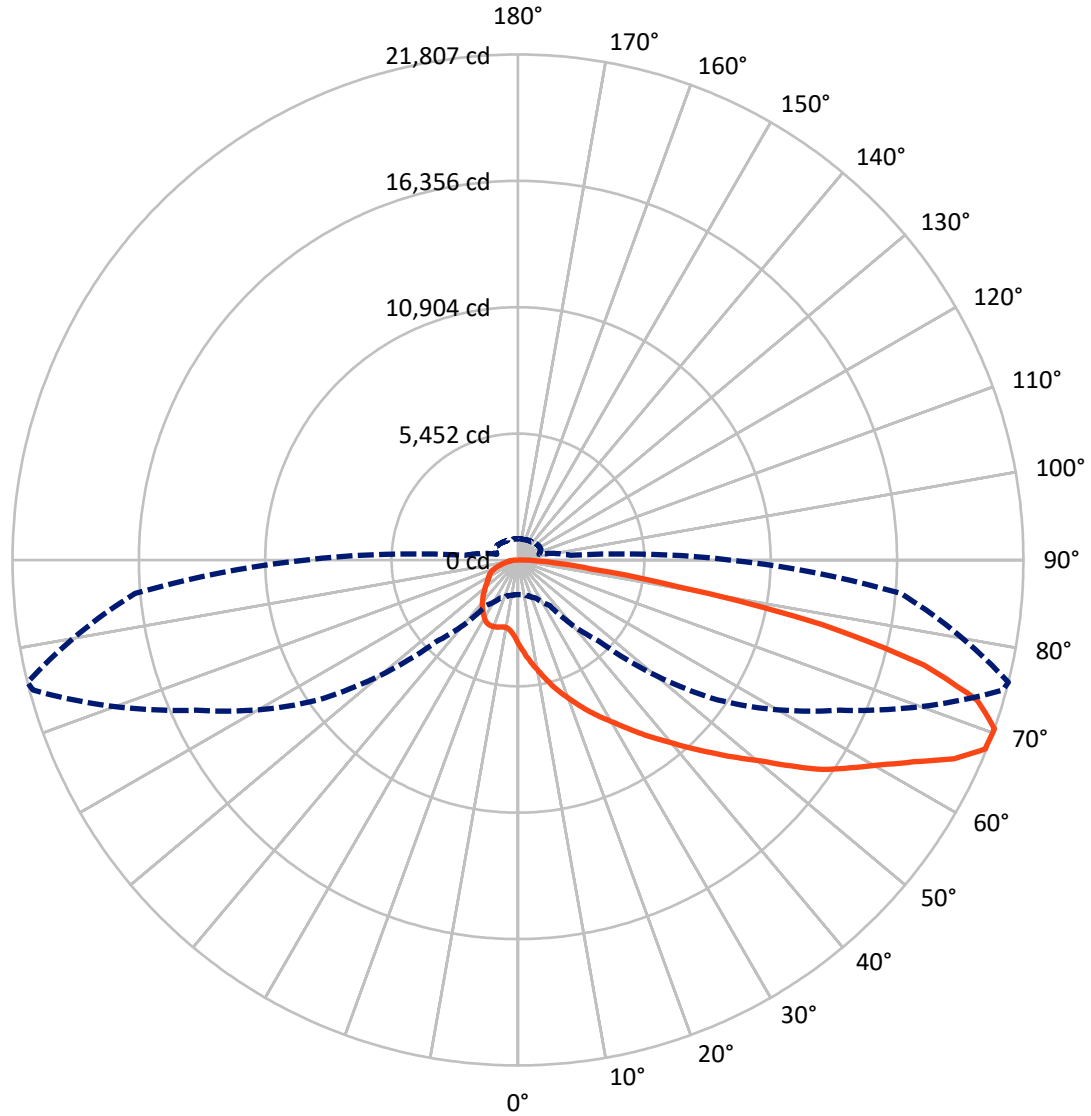
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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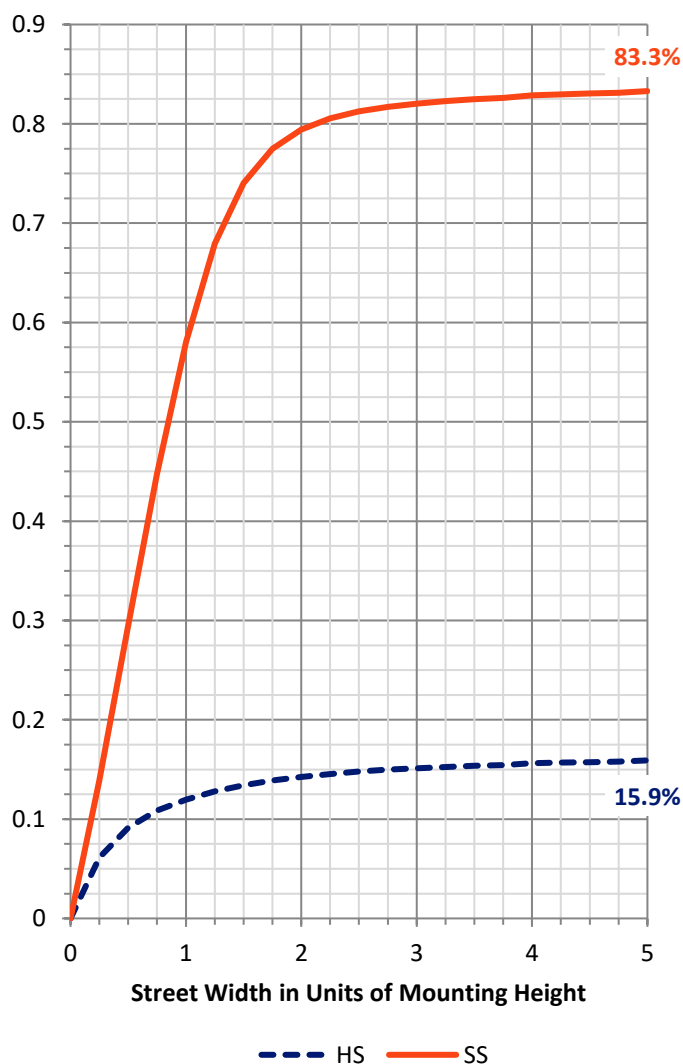
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4722.6	0.0	4722.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	24204.4	0.0	24204.4
	% Fixture	83.7	0.0	83.7
Total	Lumens	28927.0	0.0	28927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	1.3
10°-20°	1277.5	4.4
20°-30°	2285.5	7.9
30°-40°	3697.2	12.8
40°-50°	5348.5	18.5
50°-60°	6121.7	21.2
60°-70°	5631.3	19.5
70°-80°	3482.3	12.0
80°-90°	707.1	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°	28927.0	100.0
0°-180°	28927.0	100.0

Coefficient of Utilization



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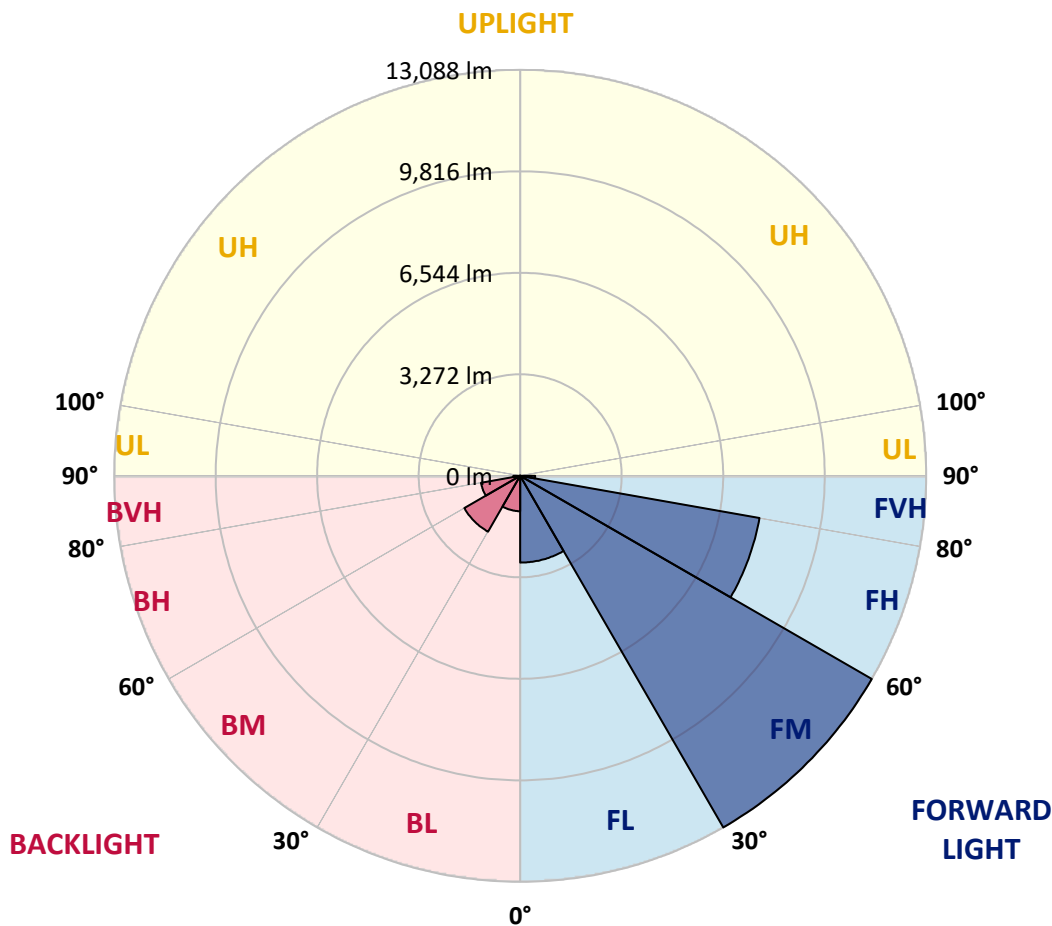
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2798.2	9.7			
FM (30°-60°)	13088.1	45.2			
FH (60°-80°)	7832.6	27.1			G4/12000
FVH (80°-90°)	485.4	1.7			G3/500
BL (0°-30°)	1140.7	3.9	B3/2500		
BM (30°-60°)	2079.3	7.2	B2/2500		
BH (60°-80°)	1280.9	4.4	B3/2500		G3/2500
BVH (80°-90°)	221.7	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
2.5°	4610.2	4576.0	4572.2	4519.0	4469.5	4336.4	4241.3	4073.9	3906.5	3902.7	3735.4
5°	5329.2	5294.9	5275.9	5211.3	5127.6	4952.6	4781.4	4522.8	4237.5	4218.5	3902.7
7.5°	5816.1	5785.6	5747.6	5721.0	5641.1	5485.1	5275.9	4967.8	4576.0	4538.0	4096.7
10°	6143.2	6124.2	6116.6	6097.5	6048.1	5922.6	5721.0	5393.8	4914.6	4872.7	4302.1
12.5°	6283.9	6276.3	6310.6	6363.8	6382.8	6333.4	6139.4	5831.3	5287.3	5241.7	4549.4
15°	6120.4	6128.0	6215.5	6398.0	6592.0	6698.5	6584.4	6283.9	5709.6	5644.9	4838.5
17.5°	6044.3	6055.7	6116.6	6291.5	6565.4	6896.3	6949.6	6713.8	6116.6	6025.3	5142.8
20°	6177.4	6192.6	6238.3	6375.2	6565.4	6919.2	7196.9	7124.6	6516.0	6420.9	5435.7
22.5°	6516.0	6535.0	6531.2	6618.7	6748.0	6991.4	7333.8	7512.6	6934.4	6827.9	5740.0
25°	7238.7	7223.5	7094.1	7052.3	7086.5	7242.5	7516.4	7885.3	7371.8	7265.3	6059.5
27.5°	8220.1	8201.1	7965.2	7752.2	7562.0	7630.5	7775.0	8185.8	7816.9	7695.2	6363.8
30°	9269.9	9247.1	8973.2	8627.1	8204.9	8106.0	8086.9	8448.3	8265.7	8136.4	6687.1
32.5°	10293.2	10274.2	9981.3	9578.1	8996.1	8699.4	8516.8	8741.2	8775.4	8649.9	7040.9
35°	11225.1	11225.1	10974.1	10494.8	9836.7	9387.9	9087.4	9102.6	9361.2	9216.7	7444.1
37.5°	12054.3	12050.5	11776.7	11305.0	10673.6	10160.0	9787.3	9540.0	9920.4	9794.9	7866.3
40°	12712.4	12685.8	12484.2	12073.4	11438.1	10928.4	10551.8	10053.5	10544.2	10430.1	8315.2
42.5°	13191.7	13176.5	13039.5	12682.0	12077.2	11597.9	11339.2	10700.2	11251.7	11137.6	8840.1
45°	13378.1	13408.5	13408.5	13070.0	12590.7	12153.2	12039.1	11411.5	12016.3	11902.2	9403.1
47.5°	13077.6	13157.5	13321.0	13343.8	12921.6	12624.9	12663.0	12126.6	12803.7	12742.8	10019.3
50°	12138.0	12286.4	12643.9	13290.6	13054.8	12986.3	13195.5	12857.0	13648.2	13629.1	10768.7
52.5°	9715.0	10076.4	11190.9	12351.0	12963.5	13153.7	13724.2	13678.6	14736.0	14766.5	11746.2
55°	7451.7	7588.6	8878.1	10852.3	12404.3	13100.4	14078.0	14481.2	15915.2	15953.3	12643.9
57.5°	6025.3	6116.6	6820.3	8878.1	11130.0	12811.3	14355.7	14949.1	16820.5	16919.4	13442.7
60°	4773.8	4906.9	5378.6	6793.6	9346.0	12115.2	14549.7	15470.2	17794.3	17942.7	14397.5
62.5°	3549.0	3613.6	4058.7	5032.5	7398.5	10863.7	14447.0	16037.0	18988.7	19167.5	15546.3
65°	2525.7	2582.8	2898.5	3579.4	5469.9	9171.0	13849.8	16459.2	20487.4	20670.0	16702.6
67.5°	1890.5	1913.3	2092.1	2502.9	3685.9	7124.6	12640.1	16386.9	21582.9	21746.5	17166.7
70°	1494.9	1502.5	1590.0	1810.6	2396.4	4960.2	10521.4	15325.6	21662.8	21807.4	16580.9
72.5°	1240.0	1236.2	1285.7	1392.2	1669.9	3138.2	7794.1	13355.3	20635.8	20734.7	14945.3
75°	1023.2	1030.8	1065.1	1125.9	1274.3	2069.3	5051.5	10654.5	18205.1	18098.6	12541.2
77.5°	859.7	855.9	871.1	924.3	1030.8	1487.3	2959.4	7699.0	13492.2	13438.9	8231.5
80°	692.3	699.9	722.7	768.4	867.3	1133.5	1749.8	4804.2	7238.7	7044.7	3933.2
82.5°	464.1	536.3	582.0	635.2	749.4	836.8	1110.7	2442.1	3237.1	3187.6	1784.0
85°	220.6	292.9	433.6	494.5	608.6	524.9	753.2	1164.0	1620.4	1601.4	642.8
87.5°	45.6	45.6	232.0	277.7	376.6	224.4	418.4	505.9	783.6	734.1	262.5
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°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
2.5°	3636.5	3533.8	3328.4	3164.8	2997.4	2902.3	2784.4	2727.3	2715.9	2685.5	2708.3
5°	3701.1	3499.5	3111.5	2856.7	2685.5	2601.8	2560.0	2544.8	2541.0	2533.4	2533.4
7.5°	3788.6	3480.5	2974.6	2715.9	2605.6	2579.0	2590.4	2613.2	2617.0	2624.6	2620.8
10°	3895.1	3484.3	2898.5	2681.7	2628.4	2632.3	2670.3	2700.7	2715.9	2727.3	2723.5
12.5°	4043.5	3530.0	2887.1	2704.5	2681.7	2696.9	2735.0	2765.4	2780.6	2784.4	2784.4
15°	4237.5	3625.1	2913.7	2754.0	2735.0	2746.4	2769.2	2780.6	2784.4	2780.6	2780.6
17.5°	4450.5	3739.2	2951.8	2784.4	2754.0	2742.6	2735.0	2723.5	2700.7	2685.5	2685.5
20°	4655.9	3841.9	2970.8	2780.6	2727.3	2681.7	2636.1	2579.0	2541.0	2510.5	2510.5
22.5°	4861.3	3937.0	2970.8	2738.8	2655.1	2567.6	2472.5	2381.2	2324.1	2286.1	2286.1
25°	5078.1	4028.3	2948.0	2666.5	2541.0	2415.4	2286.1	2172.0	2114.9	2076.9	2069.3
27.5°	5260.7	4081.5	2887.1	2563.8	2400.2	2240.5	2092.1	1974.2	1932.3	1898.1	1898.1
30°	5454.7	4115.7	2773.0	2430.6	2240.5	2057.9	1905.7	1810.6	1765.0	1715.5	1711.7
32.5°	5671.5	4138.6	2643.7	2289.9	2076.9	1882.9	1753.6	1677.5	1578.6	1525.3	1517.7
35°	5922.6	4169.0	2506.7	2130.1	1913.3	1738.4	1662.3	1536.7	1441.7	1396.0	1392.2
37.5°	6188.8	4191.8	2358.4	1989.4	1765.0	1643.3	1567.2	1418.8	1335.1	1266.7	1259.1
40°	6470.3	4191.8	2206.2	1852.5	1647.1	1601.4	1456.9	1323.7	1183.0	1148.8	1141.1
42.5°	6782.2	4184.2	2054.1	1719.3	1536.7	1506.3	1392.2	1251.5	1179.2	1148.8	1141.1
45°	7113.2	4157.6	1909.5	1567.2	1422.6	1361.8	1274.3	1236.2	1205.8	1205.8	1205.8
47.5°	7489.7	4134.8	1746.0	1430.2	1338.9	1270.5	1205.8	1183.0	1179.2	1190.6	1202.0
50°	7972.8	4127.2	1609.0	1331.3	1274.3	1194.4	1186.8	1167.8	1171.6	1171.6	1171.6
52.5°	8558.6	4058.7	1479.7	1259.1	1209.6	1114.5	1137.3	1156.4	1164.0	1160.2	1156.4
55°	8988.5	3937.0	1369.4	1209.6	1164.0	1084.1	1114.5	1145.0	1152.6	1141.1	1141.1
57.5°	9376.4	3765.8	1281.9	1171.6	1133.5	1065.1	1099.3	1129.7	1122.1	1118.3	1114.5
60°	9821.5	3602.2	1213.4	1152.6	1103.1	1057.5	1087.9	1106.9	1095.5	1087.9	1084.1
62.5°	10304.6	3442.5	1164.0	1152.6	1080.3	1053.7	1076.5	1084.1	1061.3	1053.7	1053.7
65°	10529.0	3191.4	1110.7	1152.6	1068.9	1046.1	1053.7	1046.1	1023.2	1023.2	1019.4
67.5°	10160.0	2776.8	1042.3	1137.3	1084.1	1034.6	1019.4	1008.0	981.4	981.4	973.8
70°	9140.6	2282.3	943.4	1087.9	1087.9	1030.8	973.8	947.2	916.7	928.1	912.9
72.5°	7809.3	1810.6	821.6	1004.2	1065.1	1027.0	924.3	882.5	855.9	867.3	844.5
75°	6325.8	1403.6	677.1	871.1	1008.0	1008.0	874.9	817.8	787.4	787.4	760.8
77.5°	4032.1	1038.4	551.6	722.7	905.3	981.4	833.0	745.6	699.9	688.5	669.5
80°	1997.0	730.3	452.7	574.4	772.2	920.5	802.6	661.9	597.2	574.4	540.1
82.5°	1061.3	505.9	361.4	448.9	616.2	829.2	764.6	570.6	490.7	456.5	418.4
85°	475.5	311.9	289.1	342.3	467.9	680.9	688.5	467.9	376.6	448.9	330.9
87.5°	175.0	140.7	140.7	175.0	270.1	285.3	486.9	300.5	239.6	163.6	129.3
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)