

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: McGRAW-EDISON

Report Number: P652611

Luminaire Tested: **GALN-SA9B-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42999.5 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

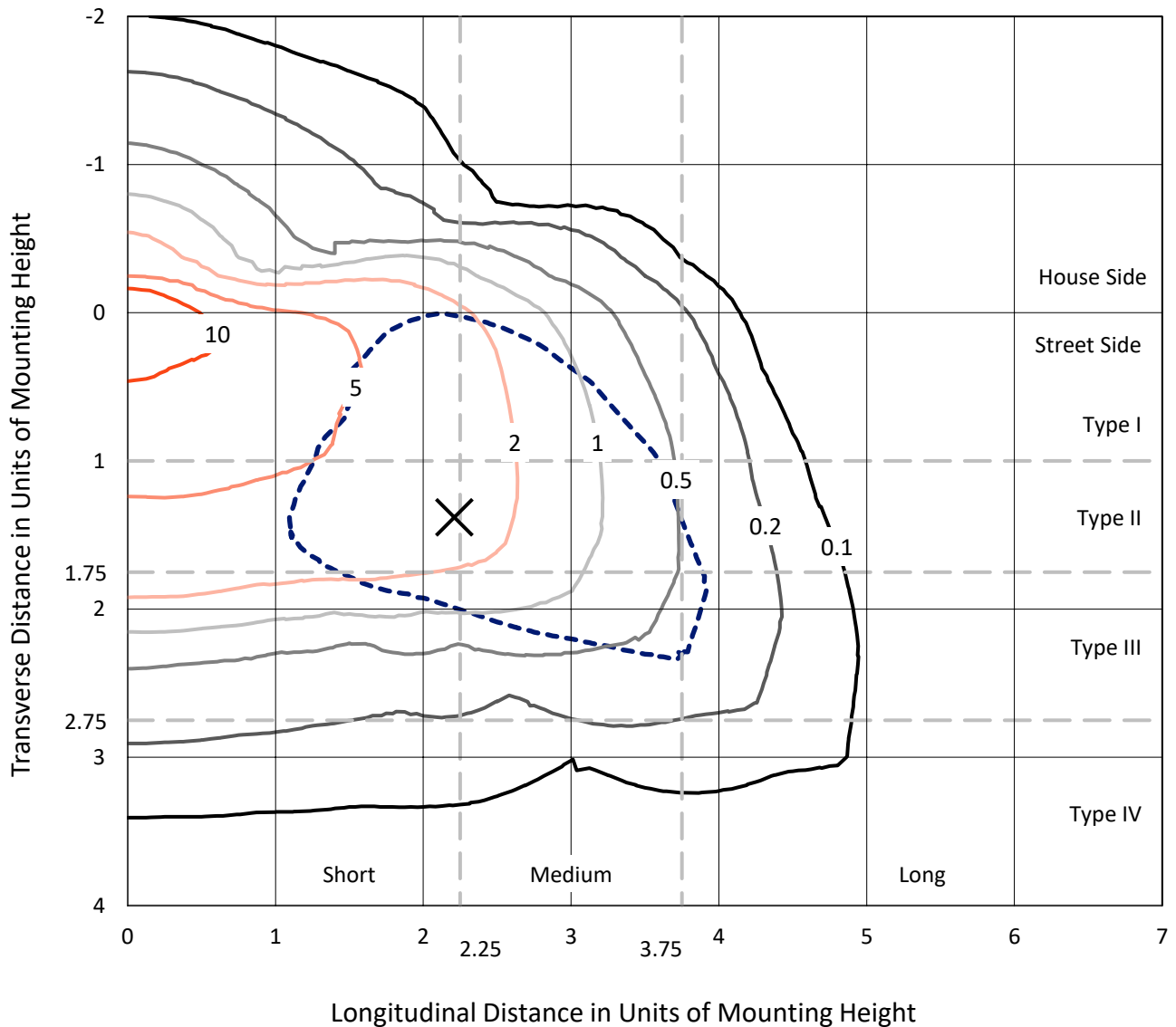
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

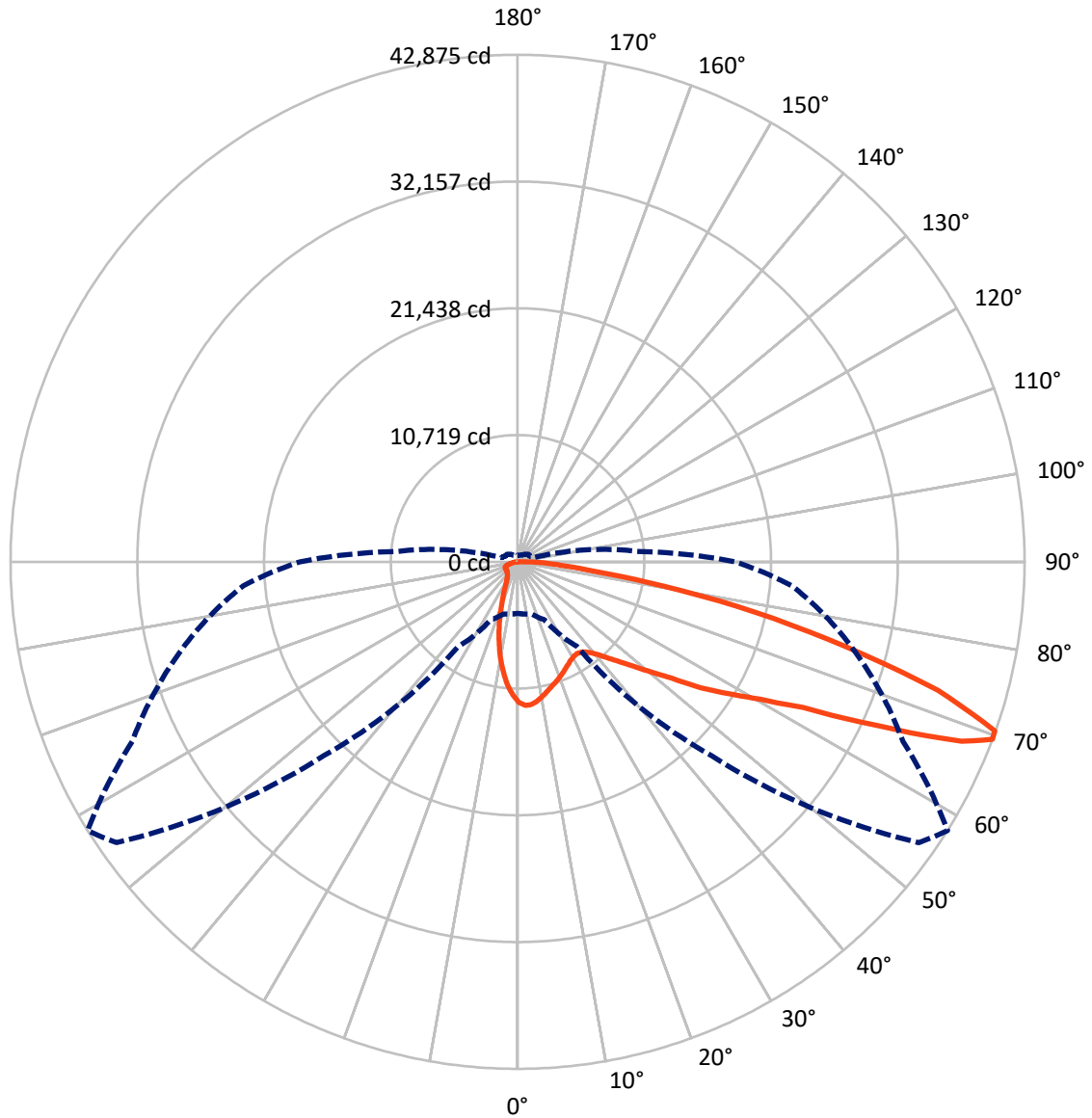
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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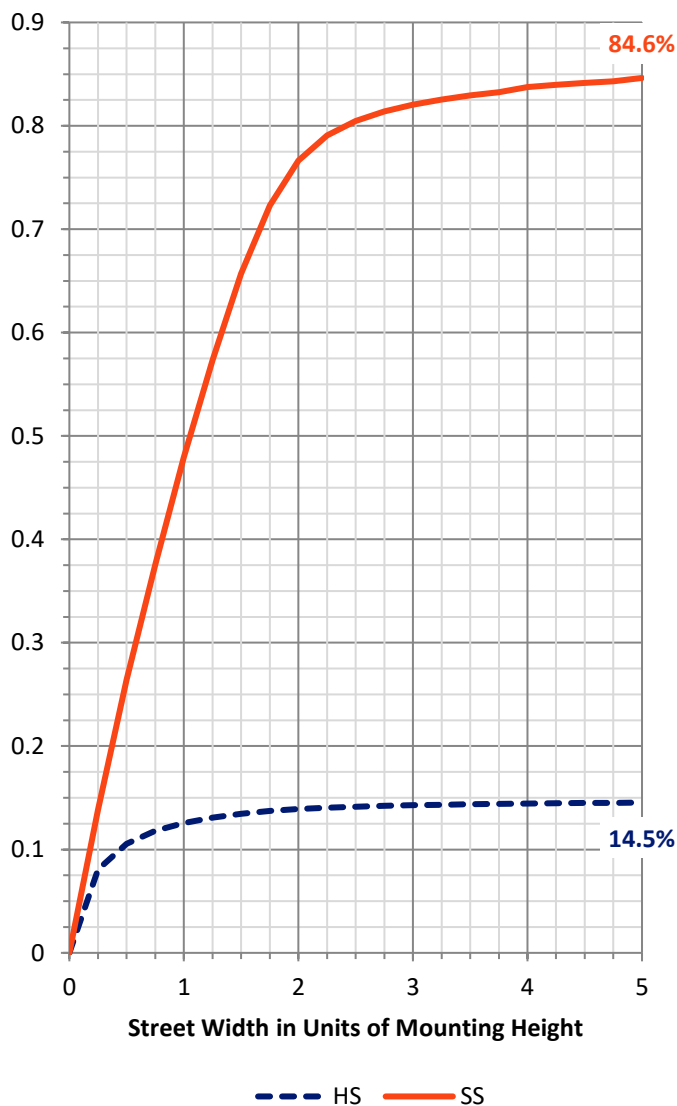
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6301.6	0.0	6301.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	36697.9	0.0	36697.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	42999.5	0.0	42999.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.1	2.3
10°-20°	2215.9	5.2
20°-30°	2862.9	6.7
30°-40°	3718.4	8.6
40°-50°	5405.9	12.6
50°-60°	8626.1	20.1
60°-70°	11523.4	26.8
70°-80°	6642.8	15.4
80°-90°	994.9	2.3
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°	42999.5	100.0
0°-180°	42999.5	100.0

Coefficient of Utilization



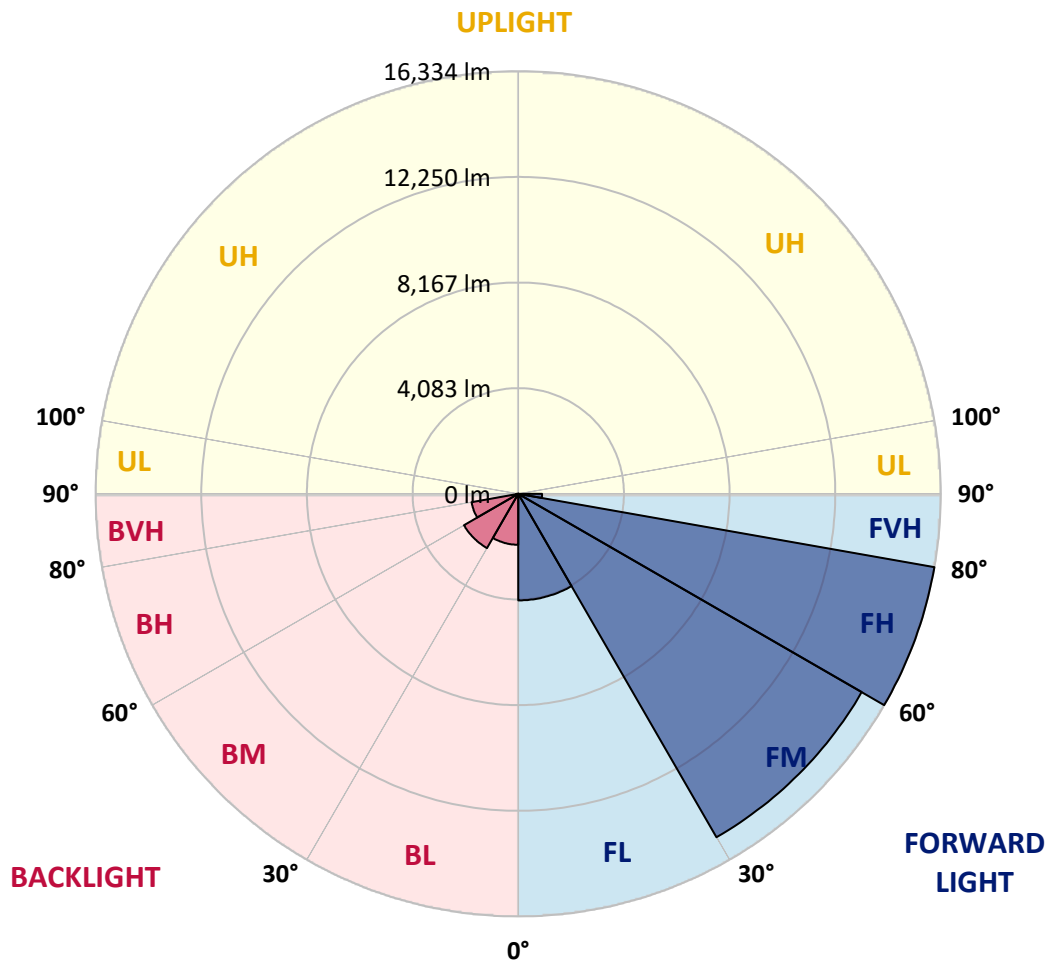
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4118.3	9.6			
FM (30°-60°)	15327.1	35.6			
FH (60°-80°)	16333.9	38.0			G5
FVH (80°-90°)	918.7	2.1			G5
BL (0°-30°)	1969.6	4.6	B3/2500		
BM (30°-60°)	2423.4	5.6	B2/2500		
BH (60°-80°)	1832.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	76.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6
2.5°	12323.8	12357.4	12347.7	12335.8	12316.6	12263.8	12177.5	12163.1	12108.0	11990.5	11844.1
5°	12134.4	12163.1	12165.5	12182.3	12206.3	12196.7	12134.4	12127.1	12045.6	11887.4	11642.7
7.5°	11484.4	11522.8	11606.7	11700.3	11784.3	11863.4	11882.6	11894.5	11844.1	11661.9	11335.8
10°	10753.0	10791.4	10829.8	10968.9	11175.1	11371.7	11534.8	11556.4	11568.4	11400.5	11002.5
12.5°	9942.5	10021.6	10103.2	10309.4	10585.2	10894.6	11182.3	11227.9	11309.4	11182.3	10714.7
15°	9254.2	9335.8	9453.3	9637.9	9971.2	10417.3	10822.6	10896.9	11057.6	10992.9	10446.1
17.5°	8777.0	8805.8	8887.4	9098.4	9458.1	9928.1	10470.0	10618.7	10875.3	10858.6	10215.9
20°	8400.5	8436.5	8486.9	8616.4	8990.5	9486.8	10141.5	10333.4	10681.1	10738.6	9988.1
22.5°	8242.2	8268.6	8261.4	8330.9	8585.2	9084.0	9808.2	10036.0	10508.5	10657.2	9777.0
25°	8251.8	8275.8	8239.9	8223.0	8374.2	8729.1	9460.5	9750.6	10369.4	10602.0	9585.1
27.5°	8412.5	8429.3	8362.1	8295.0	8307.0	8508.4	9172.7	9494.0	10251.9	10626.0	9424.5
30°	8628.3	8659.5	8616.4	8534.8	8446.1	8455.7	8988.0	9304.6	10196.7	10709.9	9347.8
32.5°	8906.5	8935.3	8916.1	8851.4	8736.2	8609.1	8942.5	9235.0	10201.5	10880.1	9331.0
35°	9199.1	9256.6	9287.8	9283.0	9189.5	8968.8	9122.3	9364.5	10316.5	11165.5	9429.3
37.5°	9530.0	9578.0	9712.3	9798.6	9712.3	9455.7	9527.6	9695.5	10570.8	11578.0	9645.1
40°	9851.4	9923.3	10119.9	10388.5	10355.0	10129.5	10146.3	10256.7	11019.2	12191.9	10067.2
42.5°	10187.1	10273.4	10616.4	11014.4	11093.5	10918.5	10964.0	11062.4	11657.1	13043.2	10791.4
45°	10618.7	10721.8	11143.9	11640.4	11952.1	11844.1	11973.7	12021.6	12510.8	14151.2	11745.8
47.5°	11175.1	11295.1	11815.4	12434.1	12875.4	12973.7	13199.1	13170.3	13568.4	15462.9	12983.3
50°	12112.8	12179.9	12671.5	13302.2	13909.0	14352.6	14597.2	14642.7	14880.1	16738.7	14367.0
52.5°	13227.8	13287.8	13642.7	14194.3	14954.5	15894.6	16498.9	16350.2	16407.7	18292.7	15985.6
55°	14482.1	14582.8	14808.2	15175.1	16160.7	17544.4	18757.8	18793.8	18155.9	19779.5	17537.2
57.5°	15453.3	15623.6	16009.7	16532.5	17781.9	19379.0	21009.7	21033.7	20218.3	21367.0	19249.5
60°	14964.1	15165.5	16048.0	17321.4	19909.0	22580.4	23700.3	23563.6	22225.5	23175.2	21338.2
62.5°	12853.8	12889.8	14172.7	16163.1	20563.6	26863.4	27705.1	27127.2	24904.2	25467.8	23460.5
65°	8319.0	8554.0	9570.7	12359.8	18412.5	29239.9	34721.9	33386.2	28659.6	28069.6	25237.5
67.5°	5251.8	5191.8	5613.9	7057.6	12664.3	27146.4	40710.0	40498.9	33570.9	29712.4	24813.0
69°	4355.0	4422.1	4566.0	5410.1	8714.7	23177.5	41417.4	42875.4	35952.2	29582.8	23271.1
70°	3949.7	3980.8	4131.9	4796.2	6724.2	19412.6	40256.7	42810.7	36887.4	29040.9	22153.5
72.5°	3134.3	3131.9	3390.9	3990.5	5026.4	11081.6	33055.3	37168.0	35841.9	26518.1	18304.6
75°	2381.3	2419.6	2705.1	3376.5	4630.7	6055.2	23067.2	28623.6	28626.0	20944.9	11422.1
77.5°	1717.1	1741.0	2074.3	2834.5	4362.1	4908.9	15364.6	20530.1	19299.9	9597.2	3590.0
80°	1124.7	1139.1	1393.3	2244.6	3932.9	4630.7	9110.4	12566.0	9103.2	2546.8	1187.1
82.5°	616.3	688.3	851.3	1453.2	3155.9	4278.2	5537.2	6359.7	3414.9	1134.3	618.7
85°	309.3	328.6	479.6	848.9	2062.4	3539.6	3856.2	3647.5	1762.6	563.6	321.3
87.5°	91.2	115.1	199.1	328.6	837.0	1844.1	2146.3	1925.6	678.7	203.9	67.1
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°	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6	11882.6
2.5°	11784.3	11741.0	11549.2	11376.5	11218.3	11050.4	10908.9	10784.2	10796.2	10798.6	10671.5
5°	11515.6	11417.3	11052.8	10712.2	10424.5	10060.0	9748.2	9546.8	9446.1	9311.8	9359.7
7.5°	11151.2	10961.7	10455.6	9889.7	9359.7	8887.4	8374.2	8021.6	7796.2	7578.0	7606.8
10°	10774.6	10470.0	9733.8	8985.7	8299.8	7544.4	6889.7	6328.5	5911.3	5755.4	5652.3
12.5°	10388.5	9988.1	9052.8	8057.6	7110.3	6206.2	5278.2	4676.3	4215.8	3971.2	4002.4
15°	10036.0	9549.2	8343.0	7129.5	5899.3	4822.5	3896.9	3323.7	3002.4	2935.3	2973.6
17.5°	9709.8	9072.0	7678.7	6227.9	4791.3	3616.3	2928.1	2604.3	2474.8	2438.9	2436.5
20°	9374.1	8666.7	6932.9	5263.8	3733.8	2803.4	2402.9	2251.8	2227.8	2242.2	2244.6
22.5°	9033.6	8165.5	6165.5	4307.0	2973.6	2292.6	2100.7	2059.9	2079.1	2112.8	2117.6
25°	8719.5	7724.2	5426.9	3467.6	2374.1	2014.4	1920.8	1920.8	1964.1	2014.4	2016.8
27.5°	8460.5	7297.4	4690.7	2753.0	1988.0	1812.9	1781.7	1798.6	1858.5	1896.9	1899.3
30°	8247.0	6899.3	3995.3	2206.3	1748.2	1652.3	1645.1	1673.8	1717.1	1753.0	1755.4
32.5°	8086.4	6549.2	3345.3	1853.7	1582.8	1529.9	1527.6	1549.2	1573.2	1582.8	1592.3
35°	8024.0	6259.1	2750.6	1630.7	1472.4	1438.9	1438.9	1436.4	1446.0	1450.8	1455.6
37.5°	8074.4	6036.0	2290.2	1486.8	1390.9	1366.9	1352.5	1338.1	1333.3	1333.3	1335.8
40°	8287.8	5918.5	1947.3	1393.3	1333.3	1297.3	1271.0	1254.2	1237.4	1242.2	1247.0
42.5°	8741.0	5940.1	1714.6	1331.0	1282.9	1232.7	1194.2	1175.0	1163.1	1177.5	1175.0
45°	9462.8	6155.9	1565.9	1287.7	1232.7	1167.9	1131.9	1112.7	1112.7	1134.3	1141.5
47.5°	10472.5	6568.4	1486.8	1254.2	1194.2	1117.5	1081.5	1067.1	1071.9	1107.9	1110.3
50°	11705.1	7285.4	1472.4	1237.4	1175.0	1081.5	1040.7	1026.4	1038.4	1076.7	1081.5
52.5°	13064.8	8208.7	1542.0	1239.8	1158.3	1060.0	1007.2	985.7	997.6	1028.8	1038.4
55°	14676.3	9364.5	1721.9	1249.4	1134.3	1048.0	983.2	935.3	949.7	971.2	973.6
57.5°	16321.4	10822.6	2038.4	1251.8	1115.1	1026.4	942.4	880.1	880.1	894.5	901.7
60°	18331.0	12410.1	2455.6	1254.2	1117.5	995.2	887.3	817.8	808.1	815.3	817.8
62.5°	20326.2	13738.7	2525.2	1247.0	1141.5	964.0	827.4	755.4	738.7	736.2	731.4
65°	21206.3	13491.7	2069.5	1213.4	1167.9	944.9	779.4	695.4	666.7	657.1	657.1
67.5°	19772.2	11412.5	1556.4	1167.9	1151.1	925.7	733.9	645.0	611.5	592.3	592.3
69°	18424.5	10151.1	1398.1	1136.7	1107.9	894.5	705.0	618.7	577.9	556.3	549.2
70°	17383.7	9283.0	1331.0	1110.3	1067.1	858.5	683.5	599.5	554.0	530.0	525.2
72.5°	13873.0	7283.0	1165.5	1009.6	908.9	721.8	606.7	539.6	496.4	470.0	462.8
75°	7995.2	3947.2	966.4	877.7	731.4	561.1	513.2	470.0	436.5	412.5	405.3
77.5°	2460.4	1525.2	700.2	693.1	537.1	434.0	410.1	393.3	369.3	343.0	338.2
80°	1035.9	777.0	474.8	467.6	357.3	302.2	294.9	292.6	283.0	261.4	254.2
82.5°	568.3	438.8	330.9	287.8	215.8	175.1	182.2	184.7	177.5	155.8	141.5
85°	278.2	239.8	160.6	129.5	98.3	62.3	60.0	71.9	67.1	47.9	52.7
87.5°	55.2	67.1	43.1	19.2	9.6	0.0	0.0	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)