

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: P533458

Luminaire Tested: **GALN-SA8D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38922 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

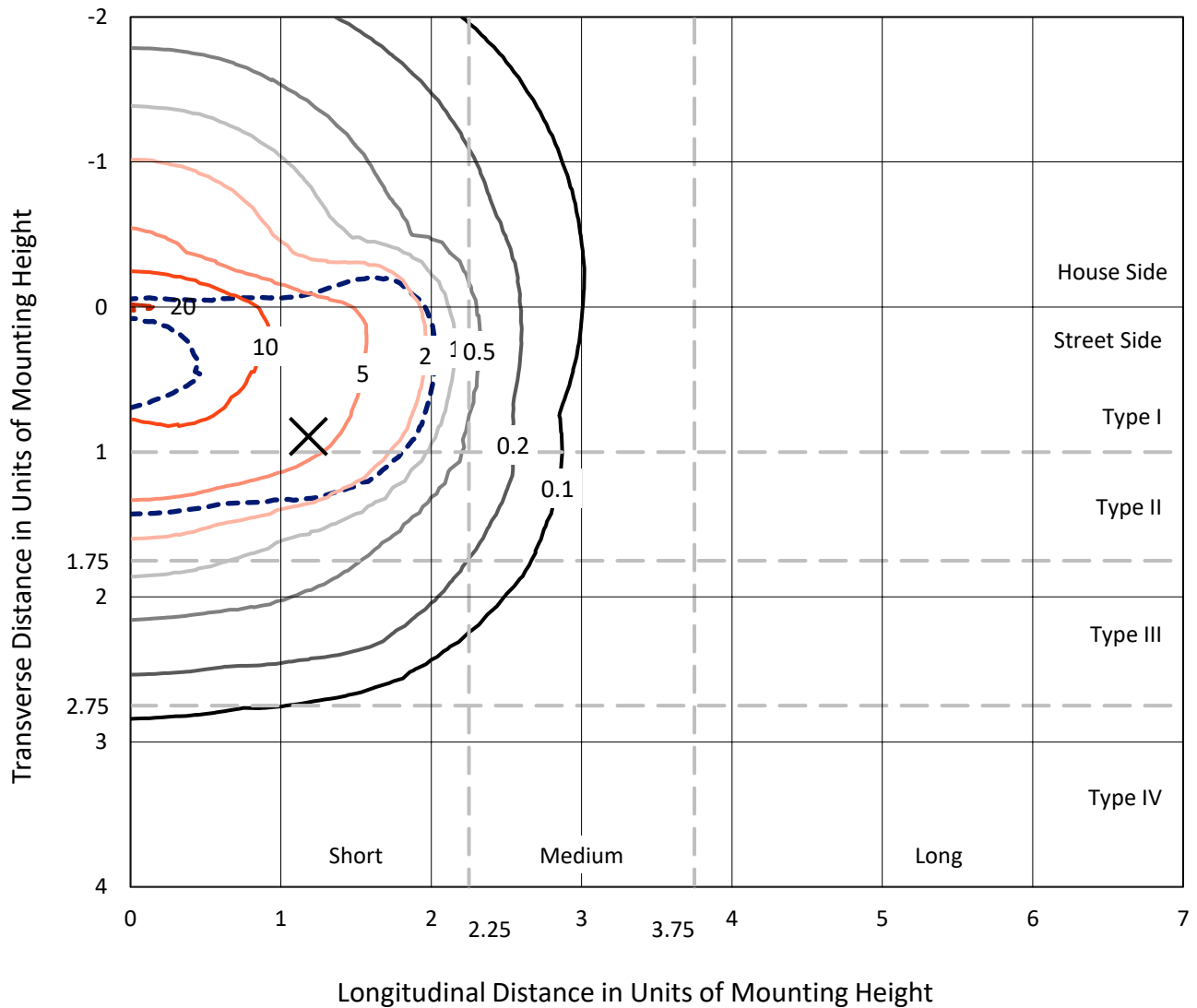
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

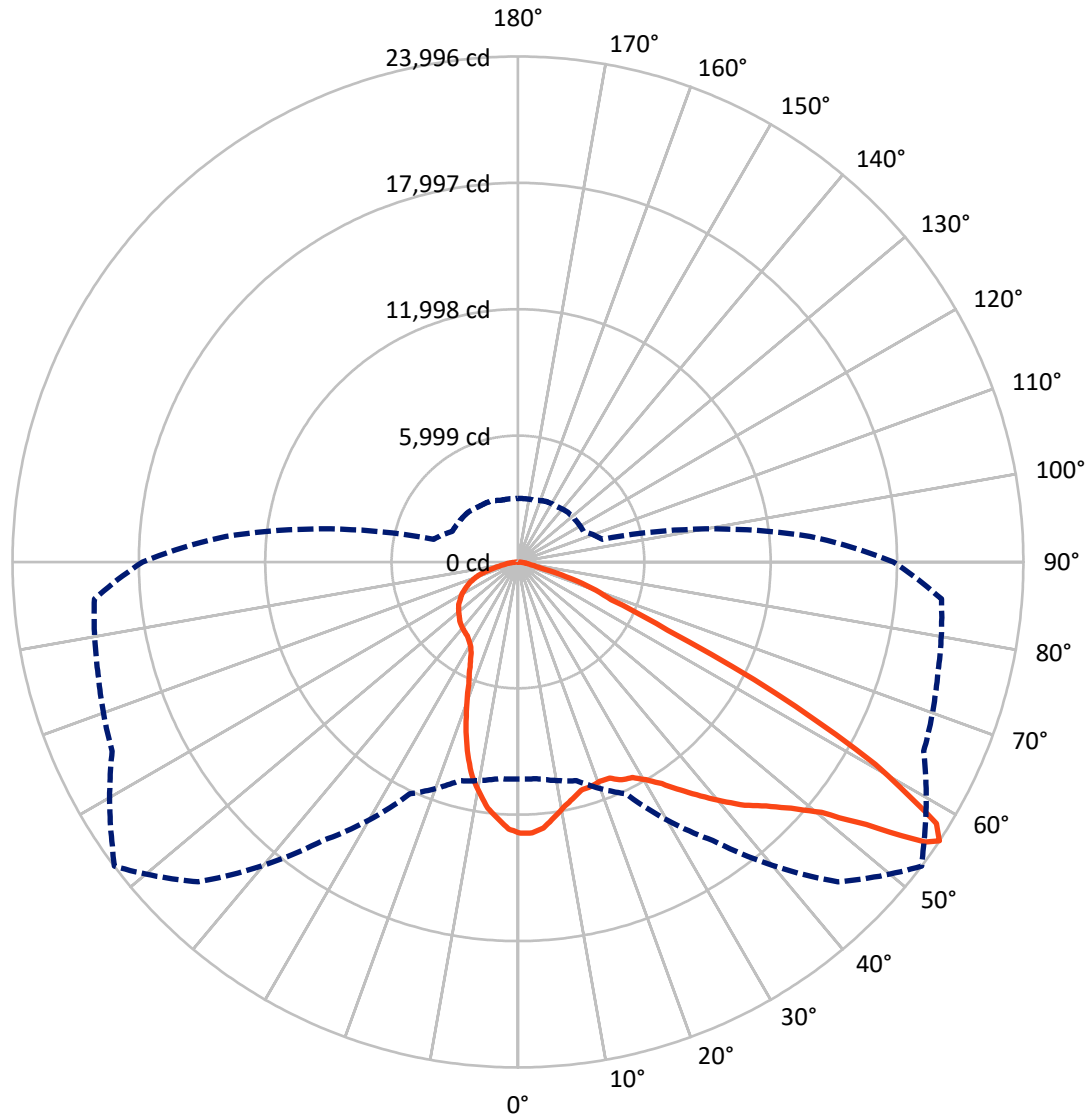
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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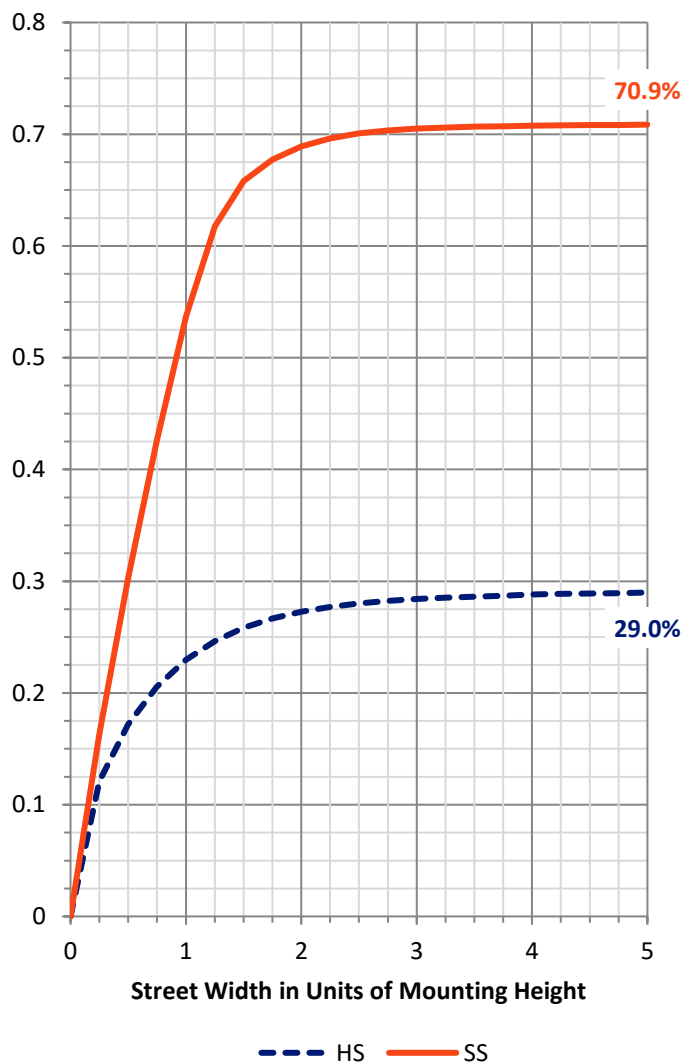
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11358.3	0.0	11358.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	27563.7	0.0	27563.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	38922.0	0.0	38922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1140.0	2.9
10°-20°	2847.2	7.3
20°-30°	4198.4	10.8
30°-40°	5998.7	15.4
40°-50°	8256.4	21.2
50°-60°	9756.8	25.1
60°-70°	5199.7	13.4
70°-80°	1319.1	3.4
80°-90°	205.7	0.5
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°	38922.0	100.0
0°-180°	38922.0	100.0



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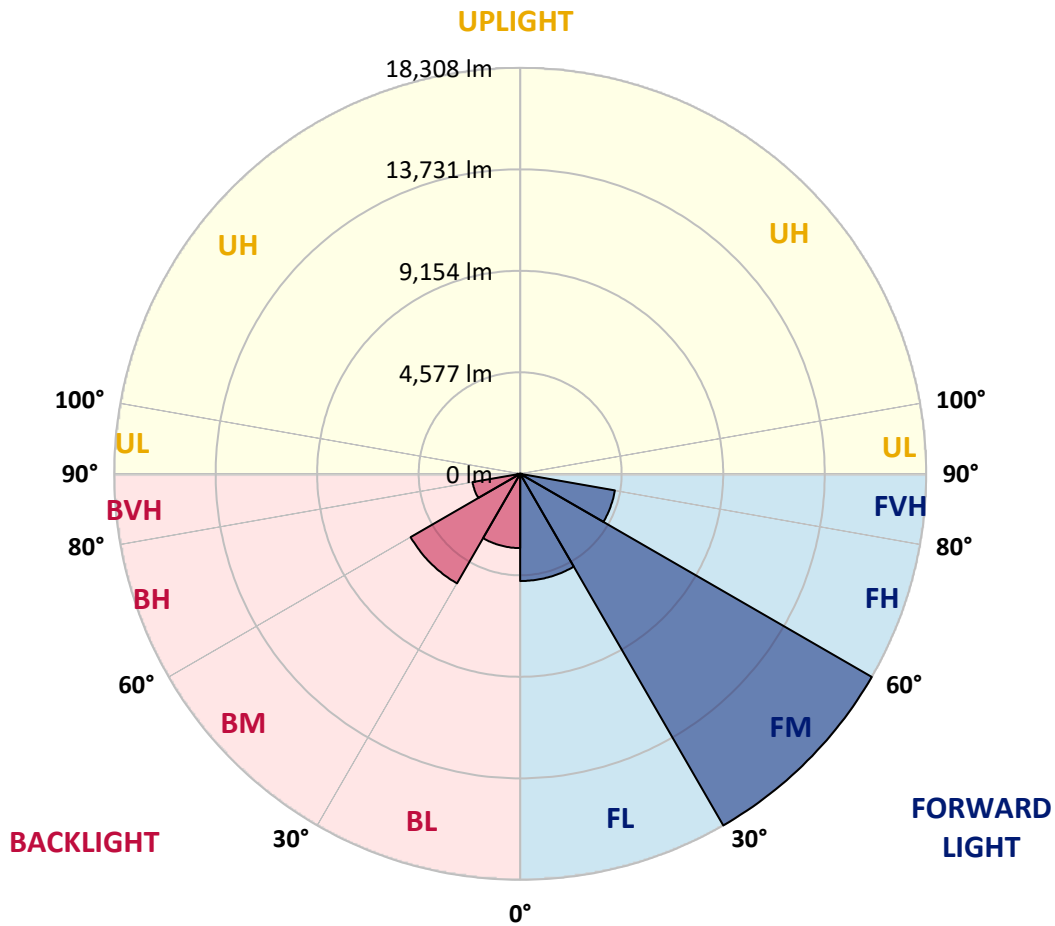
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4835.5	12.4			
FM (30°-60°)	18308.2	47.0			
FH (60°-80°)	4337.4	11.1			G2/5000
FVH (80°-90°)	82.7	0.2			G1/100
BL (0°-30°)	3350.0	8.6	B4/5000		
BM (30°-60°)	5703.7	14.7	B4/8500		
BH (60°-80°)	2181.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	123.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9
2.5°	12717.2	12607.3	12672.2	12647.3	12852.0	12911.9	12881.9	12906.9	13021.7	12966.8	12852.0
5°	11883.3	12038.1	12068.1	12143.0	12262.8	12497.5	12682.2	12732.1	12787.1	13041.7	13016.7
7.5°	11124.4	11229.2	11174.3	11394.0	11653.6	12033.1	12257.8	12297.7	12802.0	12941.8	13046.7
10°	10645.1	10540.2	10789.9	10849.8	11144.4	11578.8	11848.4	12013.1	12472.5	13026.7	13091.6
12.5°	10200.7	10165.7	10315.5	10485.3	10814.8	11264.2	11538.8	11603.7	12312.7	12896.9	13201.5
15°	9871.1	9831.2	9981.0	10105.8	10490.3	10889.7	11239.2	11424.0	12138.0	12822.0	13106.6
17.5°	9611.5	9606.5	9691.4	9916.1	10310.5	10645.1	11209.3	11219.3	12048.1	12936.8	13186.5
20°	9596.5	9591.5	9606.5	9856.2	10215.7	10625.1	11114.4	11204.3	12048.1	12857.0	13191.5
22.5°	9721.4	9641.5	9731.3	9891.1	10150.8	10660.0	11149.4	11349.1	12337.7	13251.4	13416.2
25°	9921.1	9941.1	9991.0	10045.9	10195.7	10739.9	11458.9	11623.7	12677.2	13590.9	13725.7
27.5°	10285.6	10275.6	10295.6	10325.5	10455.3	10814.8	11583.7	12008.2	13386.2	14195.1	14060.3
30°	10819.8	10784.9	10864.8	10969.6	10849.8	11054.5	11998.2	12317.7	14045.3	14804.2	14434.7
32.5°	11304.1	11434.0	11583.7	11628.7	11483.9	11523.8	12547.4	12871.9	14594.5	15553.2	14894.1
35°	11908.3	12013.1	12212.9	12352.7	12327.7	12207.9	13296.3	13725.7	15388.4	16102.4	15378.4
37.5°	12497.5	12622.3	12951.8	13366.2	13136.6	13081.6	14095.2	14449.7	15633.1	16397.0	15732.9
40°	13446.1	13441.1	14010.3	14225.0	14429.8	14334.9	14924.1	15043.9	15762.9	16332.1	15742.9
42.5°	14559.6	14489.7	15068.9	15403.4	15668.0	15678.0	15787.8	15747.9	15822.8	16002.5	15638.1
45°	15618.1	15767.9	16352.1	16951.2	17215.8	17245.8	16516.8	16441.9	15927.7	15907.7	15438.3
47.5°	16911.3	16946.2	17425.5	18214.4	18828.6	18618.9	17460.5	17295.7	16387.0	16541.8	15772.9
50°	16986.2	17245.8	17675.2	18603.9	20491.2	20436.3	18683.8	18374.2	17126.0	17440.5	16706.6
52.5°	15418.4	15358.4	15867.7	17385.6	20366.4	22243.8	20710.9	19972.0	18713.7	18474.1	18219.4
55°	11748.5	11888.3	12337.7	13870.5	17685.2	22268.8	23472.1	22867.9	20411.4	20001.9	19707.3
56°	10305.5	10325.5	10749.9	12148.0	16137.4	21474.9	23996.3	23507.0	21255.2	20631.1	20181.7
57.5°	8543.0	8428.2	8647.9	9411.8	13620.9	19797.2	23422.1	23901.5	22243.8	21310.1	20686.0
60°	6725.6	6700.6	6610.7	6750.5	8607.9	14914.1	19497.6	20576.1	22143.9	20671.0	19812.2
62.5°	5492.3	5367.5	5547.2	5746.9	5981.6	9252.0	13700.8	14334.9	17580.3	16501.8	14884.1
65°	4259.0	4199.1	4423.8	5072.9	5212.7	5876.8	7804.0	8293.4	10380.4	10195.7	8977.4
67.5°	2930.9	2940.9	3135.6	4124.2	4833.2	4773.3	4778.3	5032.9	5417.4	4024.4	3505.1
70°	1857.4	1852.4	1957.3	2656.3	3889.5	3929.5	3729.8	3654.9	3465.1	2097.1	2221.9
72.5°	1193.3	1158.4	1213.3	1467.9	2012.2	2326.7	2396.6	2441.6	2007.2	1647.7	1787.5
75°	674.1	639.1	619.1	684.0	793.9	918.7	1008.6	1038.5	1163.4	1248.2	1323.1
77.5°	204.7	184.7	224.7	299.6	394.4	529.3	644.1	664.1	783.9	883.8	958.7
80°	89.9	99.9	139.8	199.7	279.6	374.5	454.4	484.3	564.2	639.1	659.1
82.5°	54.9	59.9	94.9	134.8	194.7	264.6	324.5	334.5	414.4	474.3	489.3
85°	20.0	25.0	49.9	79.9	124.8	169.8	169.8	184.7	169.8	169.8	184.7
87.5°	0.0	0.0	5.0	10.0	10.0	15.0	20.0	20.0	25.0	30.0	35.0
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°	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9	12876.9
2.5°	12911.9	12886.9	12847.0	12702.2	12687.2	12642.3	12392.6	12352.7	12392.6	12272.8	12282.8
5°	12886.9	12961.8	12662.2	12517.4	12247.8	12053.1	11828.4	11713.6	11508.9	11379.0	11523.8
7.5°	12996.8	12966.8	12592.3	12277.8	11873.3	11379.0	10984.6	10759.9	10400.4	10300.5	10375.4
10°	12956.8	12797.0	12357.7	11943.2	11179.3	10744.9	10105.8	9486.7	9147.2	8972.4	8947.4
12.5°	12901.9	12857.0	12123.0	11409.0	10605.1	9691.4	8792.7	8208.5	7654.3	7414.6	7449.5
15°	12966.8	12587.3	11683.6	10779.9	9711.4	8513.1	7544.4	6790.5	6406.0	6251.2	6251.2
17.5°	12936.8	12457.5	11473.9	10075.9	8722.8	7304.8	6241.2	5786.9	5627.1	5627.1	5672.0
20°	12951.8	12542.4	11049.5	9371.8	7554.4	6151.4	5377.5	5212.7	5282.6	5307.6	5332.5
22.5°	13036.7	12262.8	10635.1	8597.9	6470.9	5262.6	4883.1	4888.1	5013.0	5147.8	5122.8
25°	13141.6	12152.9	10130.8	7829.0	5642.1	4828.2	4708.4	4693.4	4788.3	4858.2	4868.2
27.5°	13051.7	11963.2	9616.5	6870.4	4963.0	4538.6	4513.7	4523.7	4553.6	4693.4	4648.5
30°	13346.3	12018.1	8972.4	6066.5	4588.6	4443.8	4413.8	4398.8	4443.8	4483.7	4448.8
32.5°	13710.8	11823.4	8493.1	5292.6	4403.8	4373.9	4313.9	4294.0	4318.9	4279.0	4299.0
35°	13870.5	11788.5	7869.0	4738.4	4259.0	4234.1	4199.1	4194.1	4199.1	4164.2	4134.2
37.5°	13960.4	11953.2	7155.0	4483.7	4169.1	4194.1	4114.2	4104.2	4014.4	4034.3	4049.3
40°	14115.2	11698.6	6575.8	4239.1	4114.2	4064.3	3994.4	3979.4	3919.5	3884.5	3919.5
42.5°	13890.5	11623.7	6006.6	4134.2	4034.3	3979.4	3929.5	3844.6	3824.6	3794.7	3774.7
45°	13710.8	11194.3	5497.3	4004.4	3939.5	3909.5	3814.6	3724.8	3649.9	3679.8	3634.9
47.5°	13845.6	11044.5	4993.0	3894.5	3809.7	3774.7	3679.8	3609.9	3535.0	3500.1	3490.1
50°	14384.8	11324.1	4568.6	3814.6	3699.8	3679.8	3555.0	3475.1	3405.2	3380.3	3390.2
52.5°	15673.0	12088.0	4279.0	3649.9	3595.0	3505.1	3435.2	3335.3	3290.4	3210.5	3260.4
55°	17305.7	13331.3	4204.1	3495.1	3465.1	3385.2	3290.4	3215.5	3130.6	3065.7	3050.7
56°	17830.0	13925.5	4144.2	3435.2	3385.2	3340.3	3215.5	3170.6	3035.7	3020.8	3010.8
57.5°	18254.4	14449.7	4154.2	3320.3	3270.4	3230.5	3155.6	3045.7	2955.9	2900.9	2925.9
60°	17295.7	13526.0	3964.4	3145.6	3135.6	3060.7	2955.9	2905.9	2796.1	2731.2	2716.2
62.5°	12857.0	9182.1	3215.5	2920.9	2915.9	2836.0	2716.2	2661.3	2641.3	2551.4	2551.4
65°	7404.6	5756.9	2781.1	2736.2	2696.2	2616.3	2496.5	2451.6	2401.6	2371.7	2346.7
67.5°	3160.6	2985.8	2526.5	2521.5	2476.5	2376.7	2256.8	2186.9	2122.0	2062.1	2092.1
70°	2291.8	2326.7	2281.8	2256.8	2201.9	2077.1	1972.2	1887.4	1787.5	1747.5	1777.5
72.5°	1817.4	1892.3	1957.3	1962.2	1897.3	1752.5	1637.7	1522.9	1413.0	1358.1	1383.1
75°	1378.1	1428.0	1492.9	1507.9	1413.0	1313.2	1203.3	1083.5	998.6	933.7	943.7
77.5°	993.6	983.6	1043.5	1033.5	988.6	918.7	818.9	709.0	614.1	554.2	559.2
80°	679.0	694.0	729.0	724.0	669.1	624.1	549.2	459.4	389.5	339.5	329.5
82.5°	474.3	499.3	529.3	504.3	459.4	414.4	359.5	294.6	239.7	199.7	189.7
85°	169.8	194.7	224.7	239.7	254.6	244.7	204.7	164.8	119.8	99.9	94.9
87.5°	35.0	39.9	44.9	44.9	44.9	39.9	35.0	35.0	30.0	15.0	15.0
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)