

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: P532652

Luminaire Tested: **GALN-SA8A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532652  
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-SA8A-735-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA 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: 29157 lumens  
Efficiency: N/A  
Efficacy: 119.5 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

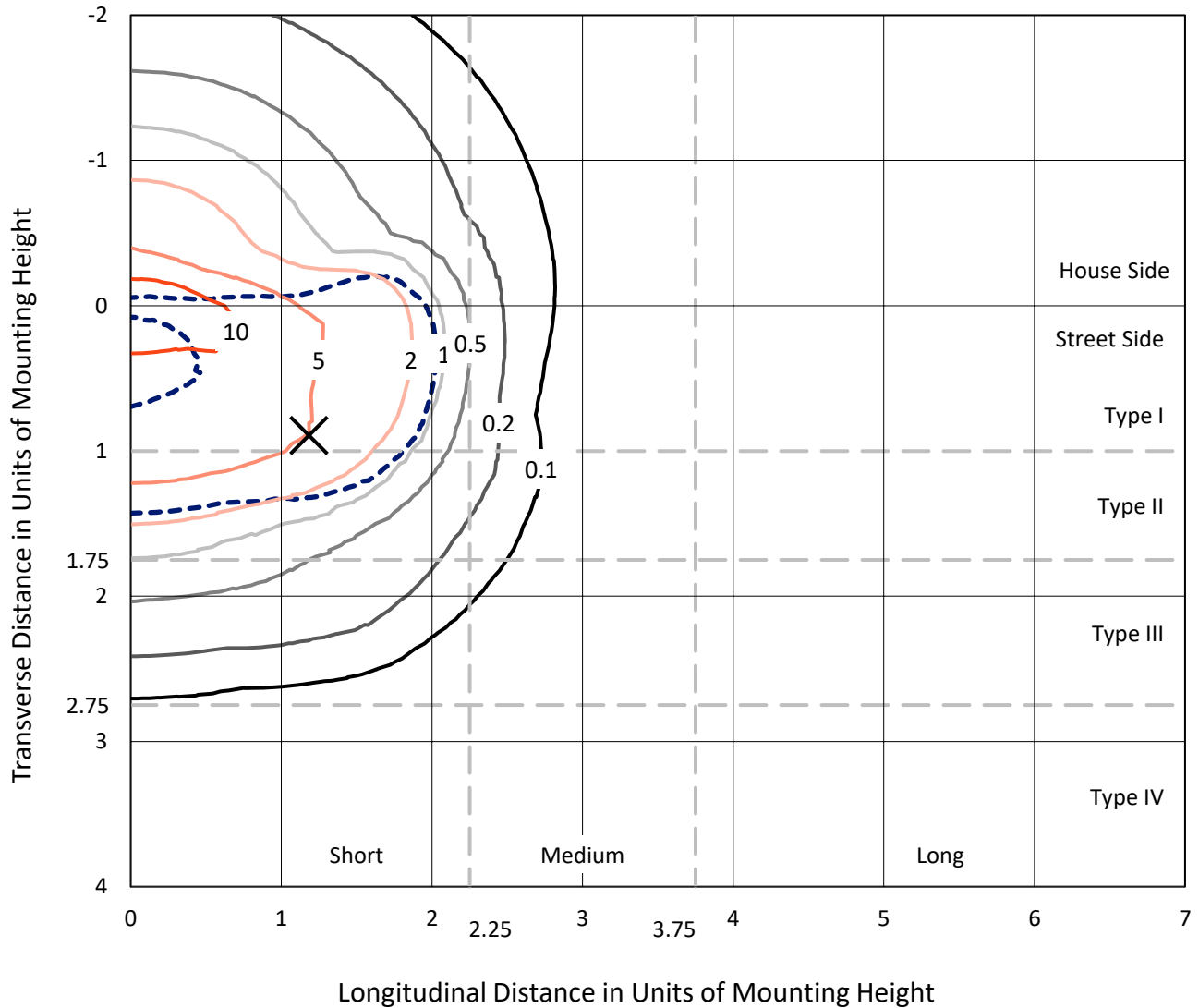
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

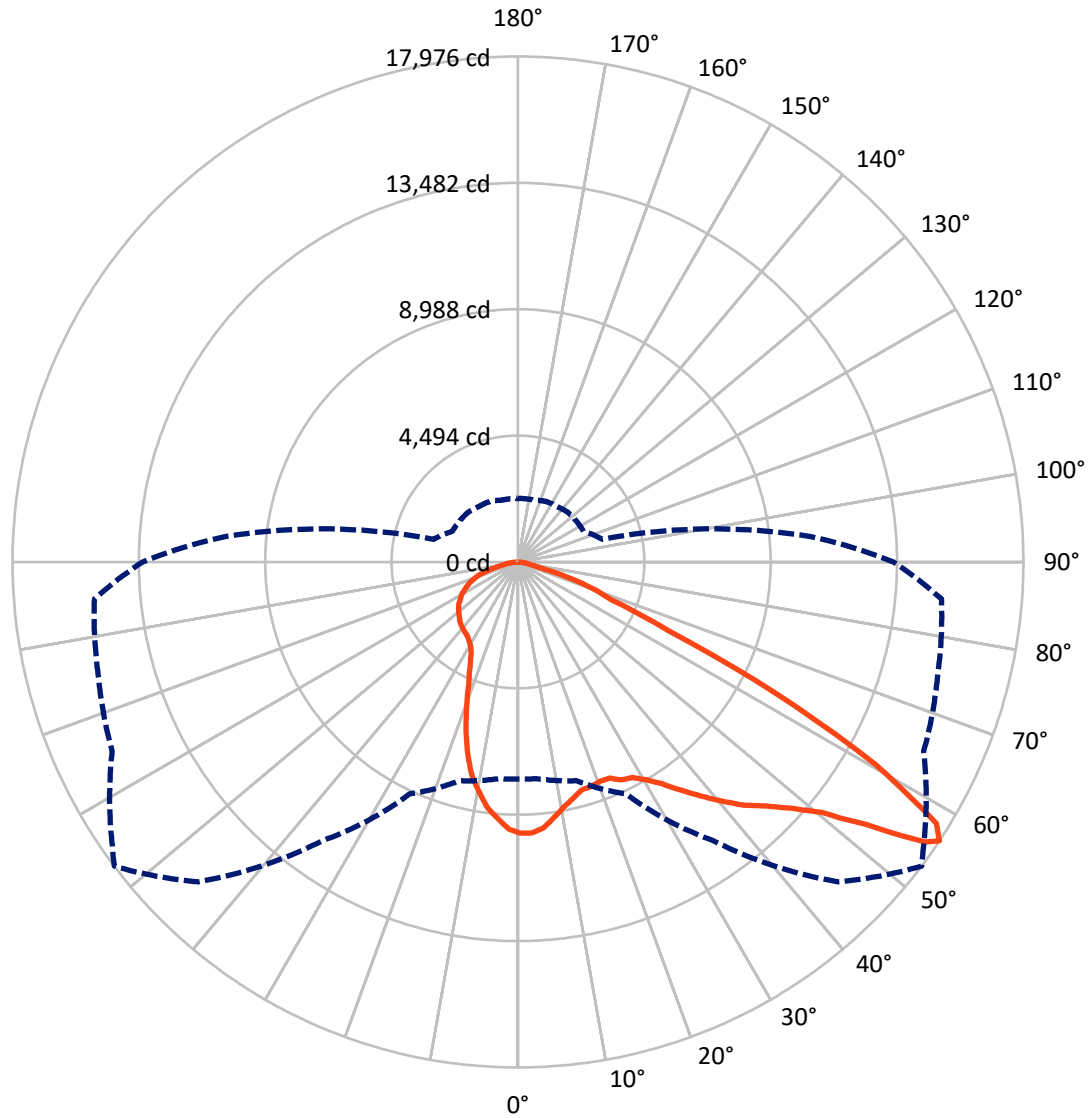
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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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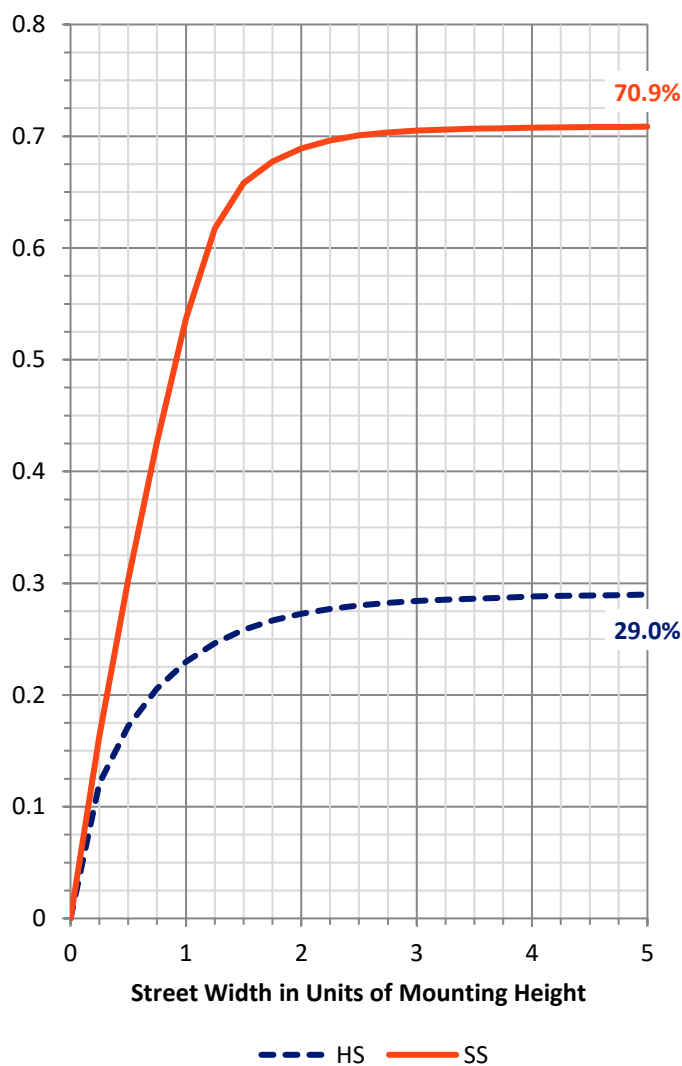
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8508.6	0.0	8508.6
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	20648.3	0.0	20648.3
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	29157.0	0.0	29157.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	854.0	2.9
10°-20°	2132.8	7.3
20°-30°	3145.1	10.8
30°-40°	4493.7	15.4
40°-50°	6185.0	21.2
50°-60°	7309.0	25.1
60°-70°	3895.2	13.4
70°-80°	988.2	3.4
80°-90°	154.1	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°	29157.0	100.0
0°-180°	29157.0	100.0

**Coefficient of Utilization**

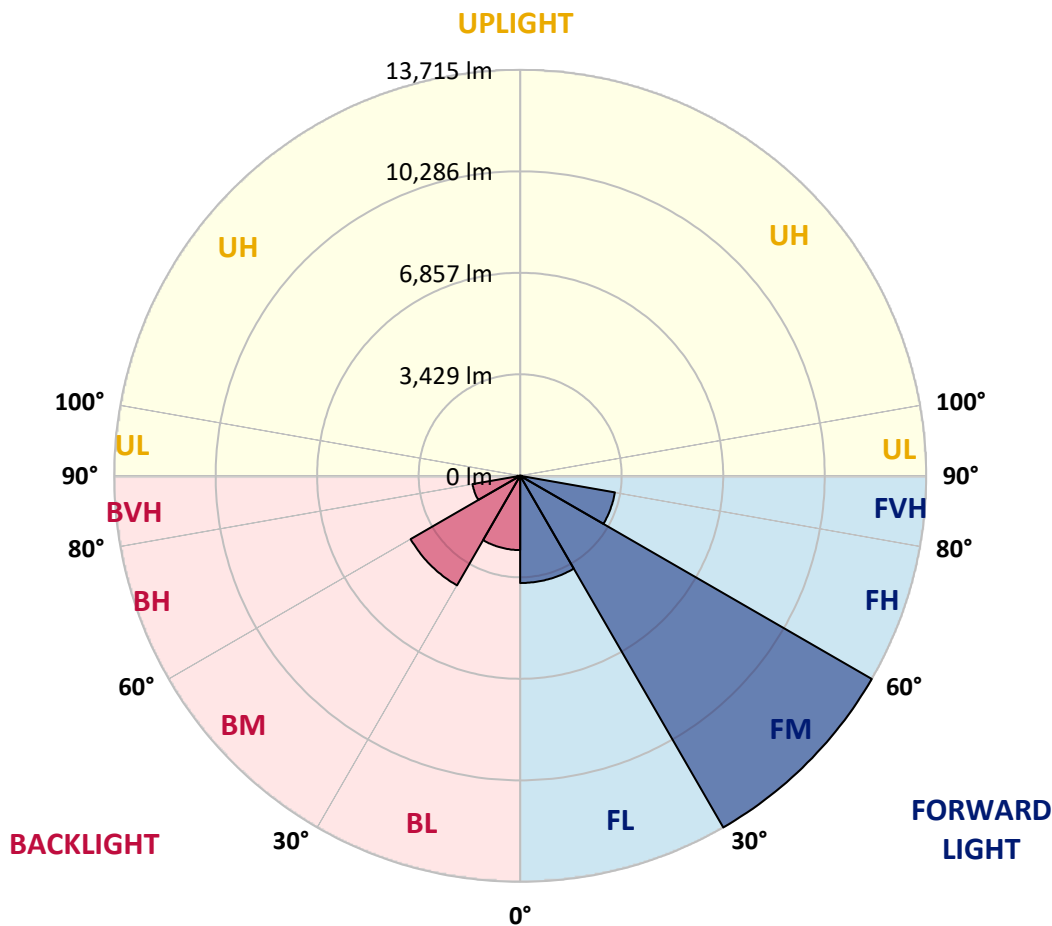


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3622.3	12.4			
FM (30°-60°)	13714.9	47.0			
FH (60°-80°)	3249.2	11.1			G2/5000
FVH (80°-90°)	61.9	0.2			G1/100
BL (0°-30°)	2509.5	8.6	B4/5000		
BM (30°-60°)	4272.8	14.7	B3/5000		
BH (60°-80°)	1634.2	5.6	B3/2500		G3/2500
BVH (80°-90°)	92.2	0.3			G1/100
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°	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3
2.5°	9526.6	9444.3	9492.9	9474.2	9627.6	9672.5	9650.0	9668.7	9754.8	9713.6	9627.6
5°	8902.0	9017.9	9040.4	9096.5	9186.2	9362.0	9500.4	9537.8	9579.0	9769.7	9751.0
7.5°	8333.4	8412.0	8370.8	8535.4	8729.9	9014.2	9182.5	9212.4	9590.2	9694.9	9773.5
10°	7974.4	7895.8	8082.8	8127.7	8348.4	8673.8	8875.8	8999.2	9343.3	9758.5	9807.1
12.5°	7641.5	7615.3	7727.5	7854.7	8101.5	8438.2	8643.9	8692.5	9223.6	9661.2	9889.4
15°	7394.6	7364.7	7476.9	7570.4	7858.4	8157.6	8419.5	8557.9	9092.7	9605.1	9818.3
17.5°	7200.1	7196.4	7260.0	7428.3	7723.8	7974.4	8397.0	8404.5	9025.4	9691.2	9878.2
20°	7188.9	7185.2	7196.4	7383.4	7652.7	7959.4	8326.0	8393.3	9025.4	9631.3	9881.9
22.5°	7282.4	7222.6	7289.9	7409.6	7604.1	7985.6	8352.1	8501.7	9242.3	9926.8	10050.2
25°	7432.0	7447.0	7484.4	7525.5	7637.7	8045.4	8584.0	8707.5	9496.7	10181.2	10282.1
27.5°	7705.1	7697.6	7712.5	7735.0	7832.2	8101.5	8677.5	8995.5	10027.8	10633.7	10532.7
30°	8105.3	8079.1	8138.9	8217.5	8127.7	8281.1	8988.0	9227.4	10521.5	11090.0	10813.3
32.5°	8468.1	8565.3	8677.5	8711.2	8602.7	8632.7	9399.4	9642.5	10933.0	11651.1	11157.4
35°	8920.7	8999.2	9148.8	9253.6	9234.8	9145.1	9960.5	10282.1	11527.7	12062.5	11520.2
37.5°	9362.0	9455.5	9702.4	10012.8	9840.8	9799.6	10558.9	10824.5	11710.9	12283.2	11785.7
40°	10072.7	10068.9	10495.3	10656.2	10809.5	10738.5	11179.8	11269.6	11808.2	12234.6	11793.2
42.5°	10906.8	10854.4	11288.3	11538.9	11737.1	11744.6	11826.9	11797.0	11853.1	11987.7	11714.7
45°	11699.7	11811.9	12249.5	12698.4	12896.6	12919.1	12373.0	12316.9	11931.6	11916.7	11565.1
47.5°	12668.5	12694.6	13053.7	13644.7	14104.7	13947.7	13079.9	12956.5	12275.7	12391.7	11815.7
50°	12724.6	12919.1	13240.7	13936.4	15350.3	15309.1	13996.3	13764.4	12829.3	13064.9	12515.1
52.5°	11550.1	11505.2	11886.7	13023.8	15256.8	16663.1	15514.8	14961.3	14018.7	13839.2	13648.4
55°	8801.0	8905.7	9242.3	10390.6	13248.2	16681.8	17583.2	17130.7	15290.4	14983.7	14763.0
56°	7720.0	7735.0	8052.9	9100.2	12088.7	16087.1	17976.0	17609.4	15922.5	15455.0	15118.4
57.5°	6399.7	6313.7	6478.2	7050.5	10203.6	14830.4	17545.8	17904.9	16663.1	15963.7	15496.1
60°	5038.2	5019.5	4952.2	5056.9	6448.3	11172.3	14605.9	15413.9	16588.3	15484.9	14841.6
62.5°	4114.4	4020.8	4155.5	4305.1	4480.9	6930.8	10263.4	10738.5	13169.7	12361.8	11149.9
65°	3190.5	3145.6	3313.9	3800.2	3904.9	4402.4	5846.1	6212.7	7776.1	7637.7	6725.1
67.5°	2195.6	2203.0	2348.9	3089.5	3620.6	3575.7	3579.5	3770.2	4058.2	3014.7	2625.7
70°	1391.4	1387.7	1466.2	1989.9	2913.7	2943.6	2794.0	2737.9	2595.8	1570.9	1664.4
72.5°	893.9	867.8	908.9	1099.7	1507.3	1743.0	1795.4	1829.0	1503.6	1234.3	1339.0
75°	504.9	478.8	463.8	512.4	594.7	688.2	755.5	778.0	871.5	935.1	991.2
77.5°	153.4	138.4	168.3	224.4	295.5	396.5	482.5	497.5	587.2	662.0	718.1
80°	67.3	74.8	104.7	149.6	209.5	280.5	340.4	362.8	422.7	478.8	493.7
82.5°	41.1	44.9	71.1	101.0	145.9	198.2	243.1	250.6	310.4	355.3	366.6
85°	15.0	18.7	37.4	59.8	93.5	127.2	127.2	138.4	127.2	127.2	138.4
87.5°	0.0	0.0	3.7	7.5	7.5	11.2	15.0	15.0	18.7	22.4	26.2
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°	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3	9646.3
2.5°	9672.5	9653.8	9623.8	9515.4	9504.2	9470.5	9283.5	9253.6	9283.5	9193.7	9201.2
5°	9653.8	9709.9	9485.5	9377.0	9175.0	9029.1	8860.8	8774.8	8621.4	8524.2	8632.7
7.5°	9736.1	9713.6	9433.1	9197.4	8894.5	8524.2	8228.7	8060.4	7791.1	7716.3	7772.4
10°	9706.1	9586.4	9257.3	8946.8	8374.6	8049.2	7570.4	7106.6	6852.3	6721.4	6702.7
12.5°	9665.0	9631.3	9081.5	8546.6	7944.4	7260.0	6586.7	6149.1	5733.9	5554.4	5580.6
15°	9713.6	9429.3	8752.3	8075.4	7274.9	6377.2	5651.6	5086.8	4798.8	4682.9	4682.9
17.5°	9691.2	9332.1	8595.3	7548.0	6534.3	5472.1	4675.4	4335.0	4215.3	4215.3	4249.0
20°	9702.4	9395.7	8277.3	7020.6	5659.1	4608.1	4028.3	3904.9	3957.3	3976.0	3994.7
22.5°	9766.0	9186.2	7966.9	6440.8	4847.5	3942.3	3658.0	3661.8	3755.3	3856.3	3837.6
25°	9844.5	9103.9	7589.1	5864.8	4226.6	3616.9	3527.1	3515.9	3587.0	3639.3	3646.8
27.5°	9777.2	8961.8	7203.9	5146.7	3717.9	3400.0	3381.2	3388.7	3411.2	3515.9	3482.2
30°	9997.9	9002.9	6721.4	4544.5	3437.4	3328.9	3306.4	3295.2	3328.9	3358.8	3332.6
32.5°	10270.9	8857.1	6362.3	3964.7	3299.0	3276.5	3231.6	3216.7	3235.4	3205.5	3220.4
35°	10390.6	8830.9	5894.7	3549.6	3190.5	3171.8	3145.6	3141.9	3145.6	3119.4	3097.0
37.5°	10457.9	8954.3	5359.9	3358.8	3123.2	3141.9	3082.0	3074.5	3007.2	3022.2	3033.4
40°	10573.9	8763.6	4926.0	3175.5	3082.0	3044.6	2992.3	2981.0	2936.2	2910.0	2936.2
42.5°	10405.6	8707.5	4499.6	3097.0	3022.2	2981.0	2943.6	2880.0	2865.1	2842.6	2827.7
45°	10270.9	8385.8	4118.1	2999.7	2951.1	2928.7	2857.6	2790.3	2734.2	2756.6	2723.0
47.5°	10371.9	8273.6	3740.3	2917.4	2853.9	2827.7	2756.6	2704.3	2648.1	2622.0	2614.5
50°	10775.9	8483.0	3422.4	2857.6	2771.6	2756.6	2663.1	2603.3	2550.9	2532.2	2539.7
52.5°	11740.9	9055.3	3205.5	2734.2	2693.0	2625.7	2573.3	2498.5	2464.9	2405.0	2442.4
55°	12963.9	9986.7	3149.3	2618.2	2595.8	2535.9	2464.9	2408.8	2345.2	2296.6	2285.3
56°	13356.7	10431.8	3104.5	2573.3	2535.9	2502.3	2408.8	2375.1	2274.1	2262.9	2255.4
57.5°	13674.6	10824.5	3111.9	2487.3	2449.9	2420.0	2363.9	2281.6	2214.3	2173.1	2191.8
60°	12956.5	10132.5	2969.8	2356.4	2348.9	2292.8	2214.3	2176.9	2094.6	2046.0	2034.7
62.5°	9631.3	6878.4	2408.8	2188.1	2184.3	2124.5	2034.7	1993.6	1978.6	1911.3	1911.3
65°	5546.9	4312.6	2083.4	2049.7	2019.8	1959.9	1870.2	1836.5	1799.1	1776.7	1758.0
67.5°	2367.6	2236.7	1892.6	1888.9	1855.2	1780.4	1690.6	1638.3	1589.6	1544.8	1567.2
70°	1716.8	1743.0	1709.3	1690.6	1649.5	1556.0	1477.4	1413.8	1339.0	1309.1	1331.6
72.5°	1361.5	1417.6	1466.2	1469.9	1421.3	1312.9	1226.8	1140.8	1058.5	1017.4	1036.1
75°	1032.3	1069.7	1118.4	1129.6	1058.5	983.7	901.4	811.6	748.1	699.4	706.9
77.5°	744.3	736.8	781.7	774.2	740.6	688.2	613.4	531.1	460.1	415.2	418.9
80°	508.7	519.9	546.1	542.3	501.2	467.5	411.4	344.1	291.7	254.3	246.9
82.5°	355.3	374.0	396.5	377.8	344.1	310.4	269.3	220.7	179.5	149.6	142.1
85°	127.2	145.9	168.3	179.5	190.8	183.3	153.4	123.4	89.8	74.8	71.1
87.5°	26.2	29.9	33.7	33.7	33.7	29.9	26.2	26.2	22.4	11.2	11.2
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)