

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: P647462

Luminaire Tested: **GALN-SA5D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25862.5 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

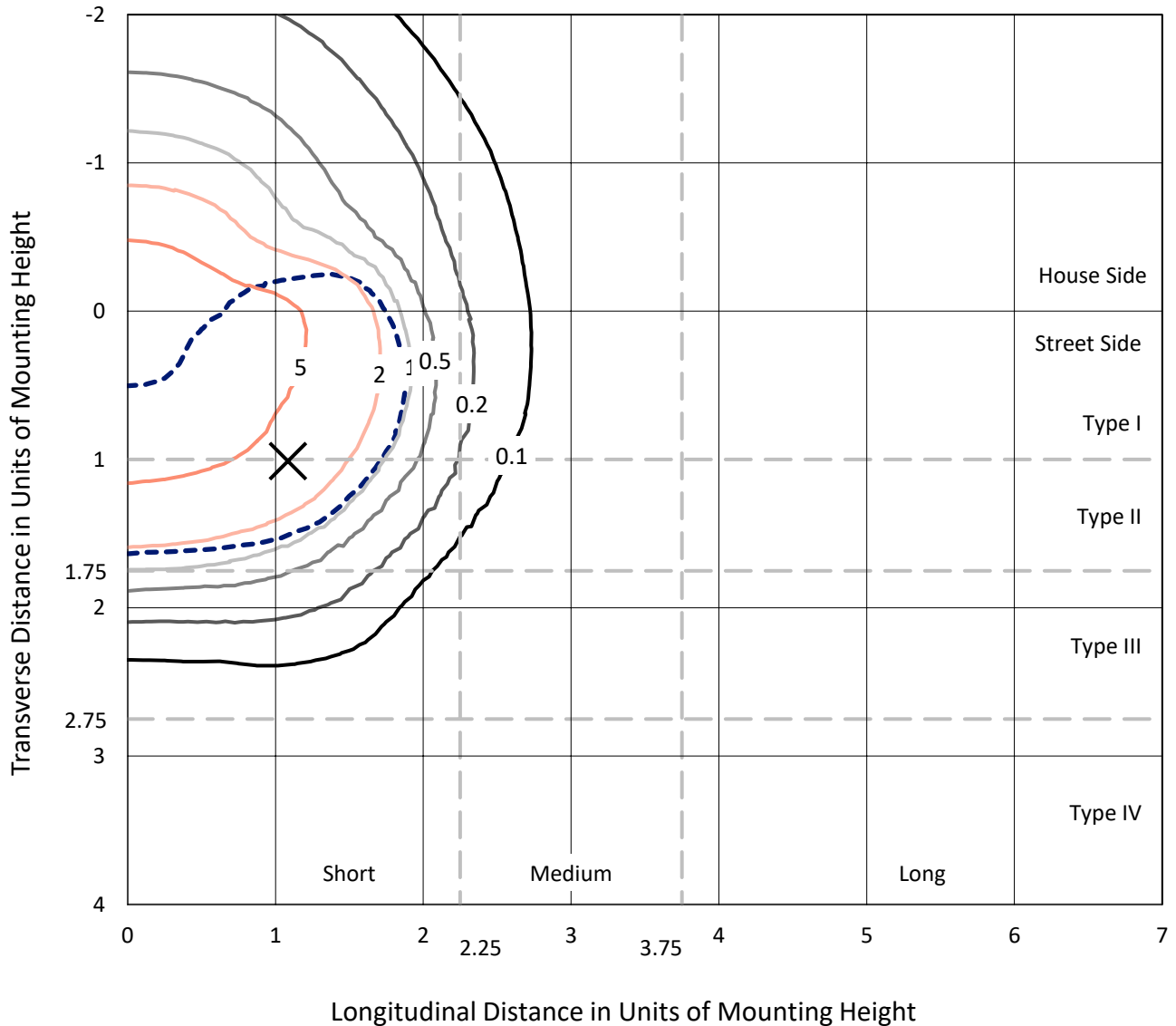
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

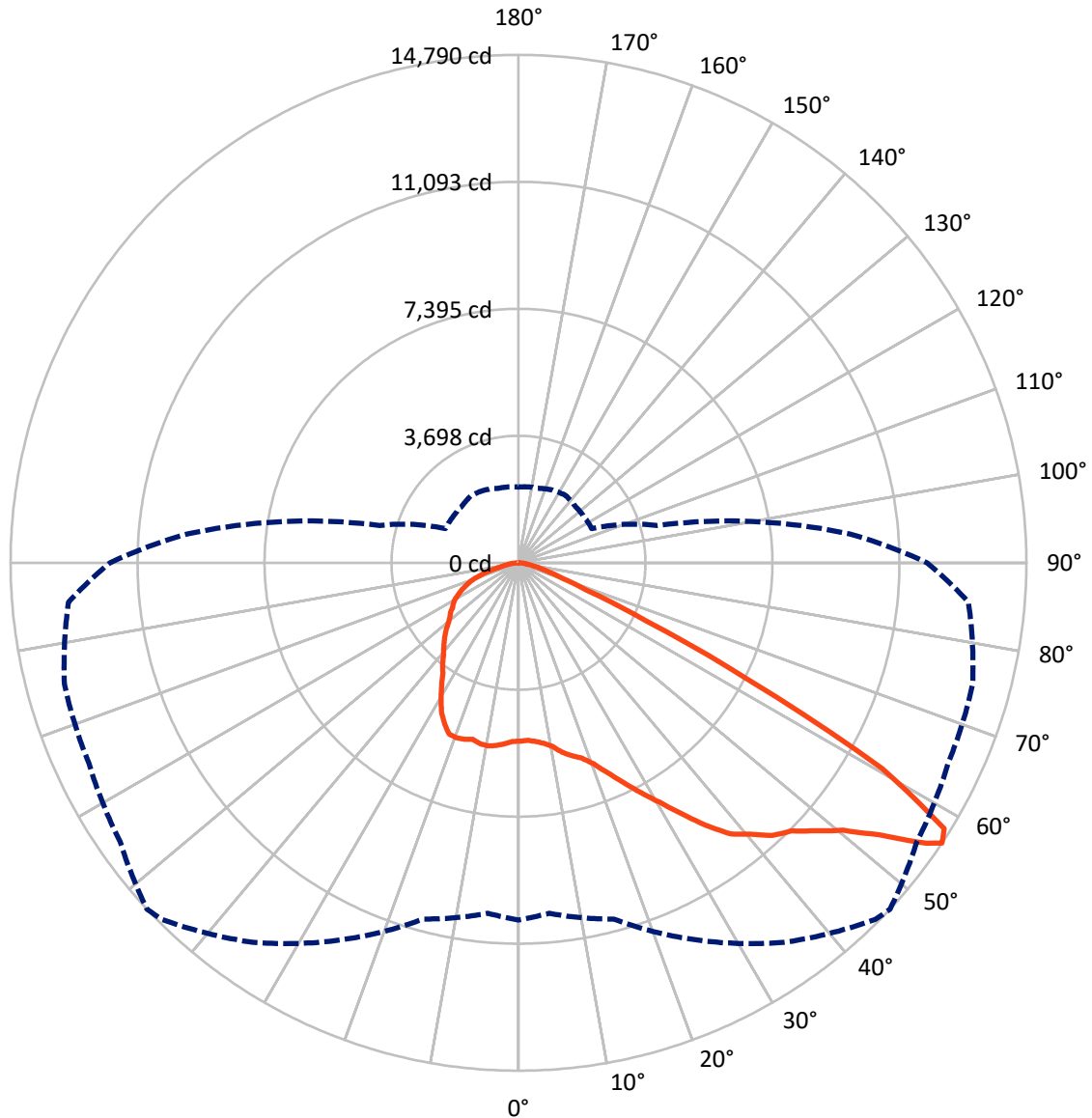
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8195.5	0.0	8195.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	17667.0	0.0	17667.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	25862.5	0.0	25862.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	506.2	2.0
10°-20°	1596.7	6.2
20°-30°	2822.7	10.9
30°-40°	4239.5	16.4
40°-50°	5818.4	22.5
50°-60°	6931.8	26.8
60°-70°	2966.4	11.5
70°-80°	839.5	3.2
80°-90°	141.3	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°	25862.5	100.0
0°-180°	25862.5	100.0

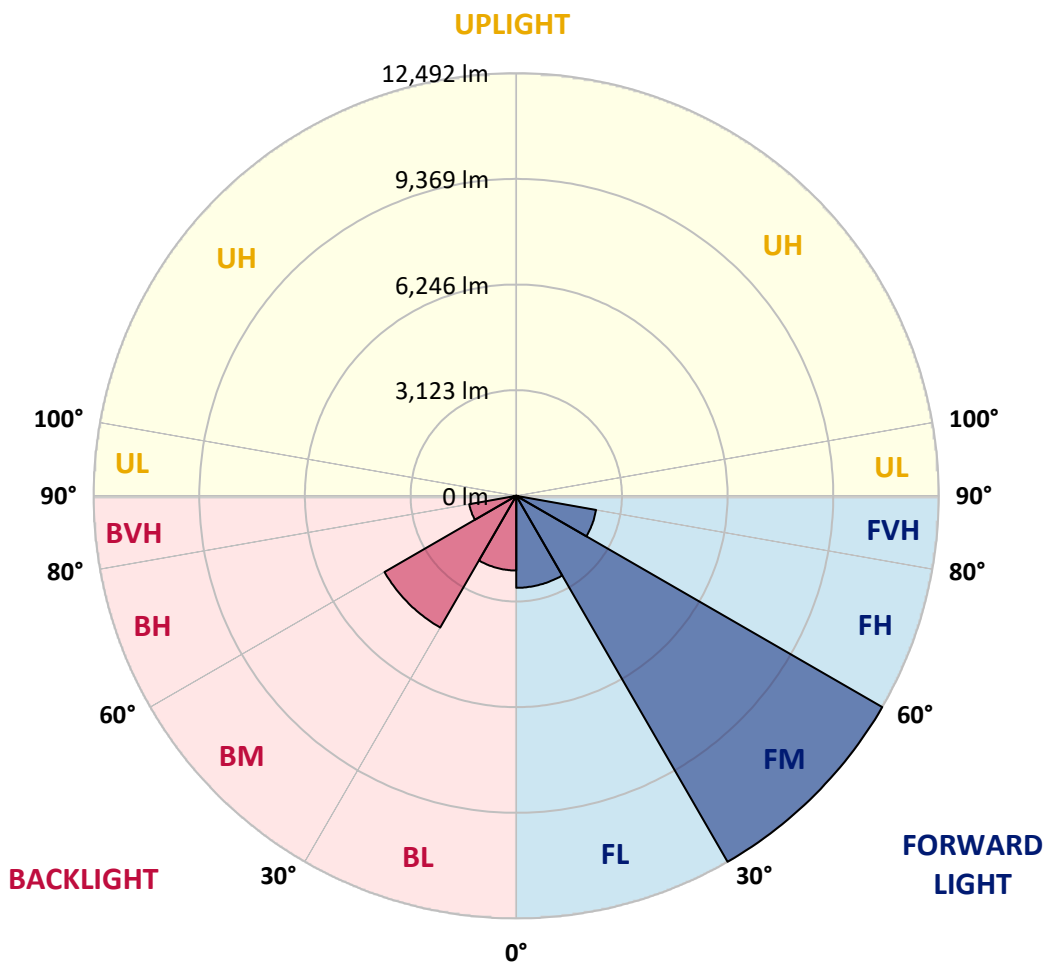


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2719.0	10.5			
FM (30°-60°)	12492.2	48.3			
FH (60°-80°)	2395.8	9.3			G2/5000
FVH (80°-90°)	60.0	0.2			G1/100
BL (0°-30°)	2206.6	8.5	B3/2500		
BM (30°-60°)	4497.6	17.4	B3/5000		
BH (60°-80°)	1410.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	81.3	0.3			G1/100
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0
2.5°	5175.2	5165.3	5158.7	5211.5	5191.7	5195.0	5175.2	5195.0	5208.2	5178.5	5221.4
5°	5165.3	5195.0	5168.6	5185.1	5227.9	5214.8	5227.9	5267.6	5257.7	5247.7	5234.6
7.5°	5257.7	5261.0	5280.7	5287.4	5300.5	5287.4	5307.1	5343.4	5333.5	5277.4	5284.1
10°	5389.6	5396.2	5399.5	5435.7	5458.8	5462.1	5439.1	5406.1	5402.8	5478.7	5425.9
12.5°	5541.3	5524.8	5564.4	5577.6	5604.0	5633.7	5663.4	5594.1	5637.0	5640.3	5577.6
15°	5762.3	5778.8	5732.7	5732.7	5742.5	5745.8	5828.3	5795.3	5788.7	5752.4	5778.8
17.5°	6092.1	5980.0	5976.7	5930.5	5923.9	5950.3	5980.0	6006.4	6095.4	6022.9	5881.0
20°	6332.9	6359.3	6263.7	6207.6	6217.5	6276.8	6247.2	6365.9	6428.6	6309.9	6171.3
22.5°	6758.5	6669.4	6692.5	6567.1	6577.0	6639.7	6636.4	6758.5	6794.7	6606.7	6405.5
25°	7045.4	7022.3	7042.1	6943.2	6956.3	7005.8	7085.0	7286.2	7226.8	7019.0	6553.9
27.5°	7464.3	7418.1	7401.6	7365.4	7352.1	7484.1	7576.5	7790.8	7747.9	7444.5	6817.8
30°	7893.1	7863.4	7879.9	7731.5	7784.3	8064.6	8091.0	8384.5	8364.8	7830.4	7111.4
32.5°	8189.9	8206.5	8236.1	8153.7	8387.8	8612.1	8701.2	9034.3	9050.9	8493.4	7678.7
35°	8668.2	8612.1	8628.7	8724.3	8833.1	9242.1	9387.2	9608.3	9746.8	9189.4	8222.9
37.5°	8968.3	9027.8	8958.5	9110.2	9393.9	9885.3	10017.2	10244.9	10389.9	9875.4	8965.0
40°	9436.7	9341.1	9390.6	9499.4	9789.7	10429.6	10393.3	10627.4	10673.6	10459.2	9657.8
42.5°	9941.4	9895.2	9825.9	10073.3	10317.4	10782.5	10855.0	10746.2	10980.4	11029.9	10647.2
45°	10545.0	10601.0	10611.0	10617.6	10831.9	11237.7	11138.7	11043.0	11313.6	11673.0	11260.8
47.5°	11105.8	10927.6	11056.3	11234.4	11537.8	11541.1	11656.6	11429.0	11716.0	12035.9	11814.9
50°	11293.8	11208.0	11379.5	11716.0	12184.3	12233.7	12247.0	11923.8	12072.1	12326.1	12006.2
52.5°	11221.2	11191.5	11630.2	12151.3	12837.4	13088.1	13154.0	12754.9	12837.4	12721.9	12428.4
55°	10874.9	10963.9	11405.9	12467.9	13520.1	14295.3	14420.6	13915.9	13391.5	13480.6	13157.4
56°	10399.9	10244.9	10739.6	12108.5	13490.5	14687.8	14790.1	14160.1	13803.8	13688.4	13150.7
57.5°	8823.2	8622.0	9271.8	10894.7	12741.8	14539.4	14615.2	14262.3	13734.5	13500.4	12190.9
60°	5165.3	5264.3	6088.8	7513.7	9829.2	11920.5	12174.4	12431.7	12078.8	11029.9	9074.0
62.5°	2493.6	2430.9	3021.4	4307.8	5989.9	7609.4	7533.6	8255.9	8651.7	7837.0	5729.4
65°	1306.2	1299.5	1649.2	2351.7	3291.8	3997.7	4066.9	4456.1	5000.4	4037.2	2909.2
67.5°	959.8	986.2	1161.0	1652.5	2117.5	2160.5	2150.6	2345.2	2397.9	2028.5	1787.7
70°	752.1	765.2	893.9	1256.7	1576.6	1411.7	1382.0	1405.1	1560.1	1626.1	1547.0
72.5°	544.3	557.4	666.3	847.7	986.2	963.2	982.9	1111.5	1302.8	1372.1	1289.7
75°	362.8	372.7	432.1	517.9	583.8	630.0	666.3	814.7	992.8	1032.4	992.8
77.5°	250.7	260.6	300.1	366.1	372.7	402.4	415.6	484.8	593.7	643.2	616.8
80°	141.8	141.8	161.6	188.0	230.9	270.4	277.1	333.2	382.7	415.6	422.2
82.5°	66.0	69.3	85.7	115.4	151.7	188.0	194.6	230.9	267.2	300.1	310.1
85°	33.0	36.3	49.5	69.3	92.4	112.1	108.8	112.1	118.8	112.1	115.4
87.5°	9.9	9.9	13.2	16.5	13.2	16.5	16.5	19.8	23.1	26.4	29.7
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°	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0
2.5°	5224.6	5234.6	5168.6	5231.3	5208.2	5204.9	5251.0	5244.5	5261.0	5254.3	5214.8
5°	5227.9	5204.9	5274.1	5211.5	5241.2	5303.8	5261.0	5359.9	5310.5	5343.4	5270.8
7.5°	5330.2	5336.8	5323.6	5350.0	5336.8	5366.5	5343.4	5366.5	5326.9	5330.2	5396.2
10°	5419.3	5399.5	5422.6	5389.6	5412.6	5402.8	5350.0	5333.5	5346.7	5330.2	5373.1
12.5°	5584.2	5547.9	5531.4	5491.9	5465.5	5366.5	5284.1	5237.9	5300.5	5310.5	5290.7
15°	5752.4	5755.8	5679.9	5590.8	5425.9	5277.4	5297.2	5313.8	5313.8	5340.1	5290.7
17.5°	5857.9	5857.9	5788.7	5610.6	5442.4	5356.6	5336.8	5284.1	5237.9	5231.3	5227.9
20°	6042.6	5986.6	5828.3	5607.3	5435.7	5396.2	5247.7	5122.4	5026.8	4993.8	4990.5
22.5°	6253.7	6111.9	5891.0	5613.9	5425.9	5369.8	5092.7	4904.7	4733.2	4660.7	4670.5
25°	6448.4	6220.8	5927.2	5584.2	5389.6	5119.1	4809.1	4548.5	4370.4	4311.0	4281.4
27.5°	6583.6	6336.3	5927.2	5610.6	5254.3	4838.8	4522.1	4189.0	4033.9	3994.4	4001.0
30°	6765.0	6481.4	6029.5	5554.5	4983.9	4475.9	4096.7	3878.9	3786.6	3753.6	3776.6
32.5°	7190.5	6860.6	6171.3	5419.3	4663.9	4113.1	3806.4	3684.3	3549.1	3483.1	3460.0
35°	7652.3	7220.2	6309.9	5191.7	4304.4	3783.3	3591.9	3479.8	3318.2	3245.6	3258.8
37.5°	8305.4	7682.0	6319.7	4815.7	3915.2	3598.6	3423.7	3248.9	3117.0	3004.8	2971.9
40°	9186.1	8312.0	6296.7	4419.9	3601.9	3380.8	3252.2	3034.5	2886.1	2807.0	2823.4
42.5°	9961.2	9050.9	6201.0	3971.3	3318.2	3232.5	3087.3	2872.9	2727.8	2645.3	2638.7
45°	10614.3	9595.0	6019.6	3588.6	3080.7	3067.5	2899.3	2734.4	2618.9	2543.1	2576.1
47.5°	11217.9	10033.8	5745.8	3206.1	2863.0	2889.4	2727.8	2625.6	2553.0	2483.7	2480.4
50°	11435.6	10027.2	5505.0	2889.4	2688.2	2675.0	2668.4	2559.5	2483.7	2424.3	2450.7
52.5°	11798.4	10139.3	5244.5	2671.7	2529.9	2533.2	2556.3	2477.1	2391.4	2355.0	2388.1
55°	12319.6	10155.8	4670.5	2417.7	2397.9	2421.0	2421.0	2368.3	2295.7	2266.0	2249.5
56°	11894.1	9664.3	4189.0	2351.7	2332.0	2332.0	2394.6	2335.3	2246.2	2223.1	2203.4
57.5°	10970.5	8467.0	3506.2	2272.6	2242.9	2289.1	2322.1	2259.4	2177.0	2143.9	2163.7
60°	7566.5	5729.4	2635.4	2101.1	2101.1	2177.0	2203.4	2111.0	2074.7	2071.4	2045.0
62.5°	4416.6	3338.0	2061.5	1946.1	1952.6	2015.4	2035.1	1982.3	1936.2	1992.3	2018.7
65°	2341.9	1992.3	1767.9	1781.2	1784.5	1833.9	1919.7	1916.4	1913.1	1929.5	1932.8
67.5°	1695.4	1655.8	1606.3	1593.1	1599.7	1636.0	1721.7	1787.7	1784.5	1744.8	1715.2
70°	1510.6	1454.6	1424.9	1428.2	1401.8	1444.7	1513.9	1556.8	1481.0	1434.8	1415.0
72.5°	1256.7	1240.2	1220.4	1223.7	1170.9	1161.0	1081.9	1081.9	1062.1	1048.9	1072.0
75°	959.8	953.2	963.2	946.6	890.6	831.2	785.0	742.1	676.2	649.8	636.6
77.5°	606.9	626.7	649.8	613.5	590.4	547.6	501.4	458.4	405.7	376.0	376.0
80°	412.3	428.8	445.3	438.7	412.3	372.7	336.5	290.3	254.0	230.9	227.6
82.5°	313.4	326.5	349.6	323.2	296.8	263.9	234.2	201.2	168.2	141.8	141.8
85°	112.1	128.6	141.8	155.0	164.9	168.2	145.2	118.8	95.7	75.9	72.6
87.5°	29.7	33.0	36.3	33.0	33.0	33.0	36.3	33.0	29.7	23.1	23.1
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)