

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: P529700

Luminaire Tested: **GALN-SA4D-760-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529700  
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-SA4D-760-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 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: 26092 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

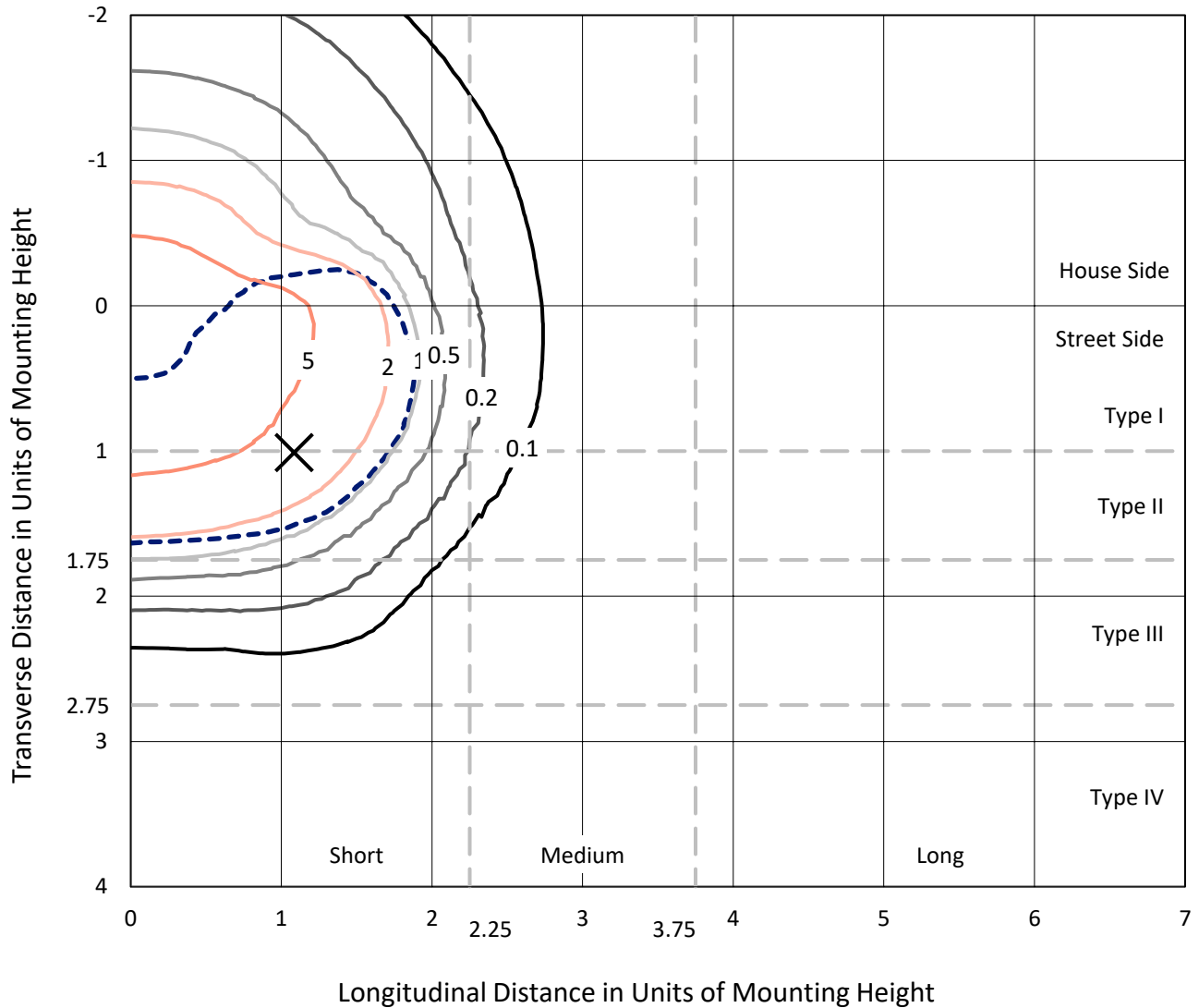
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

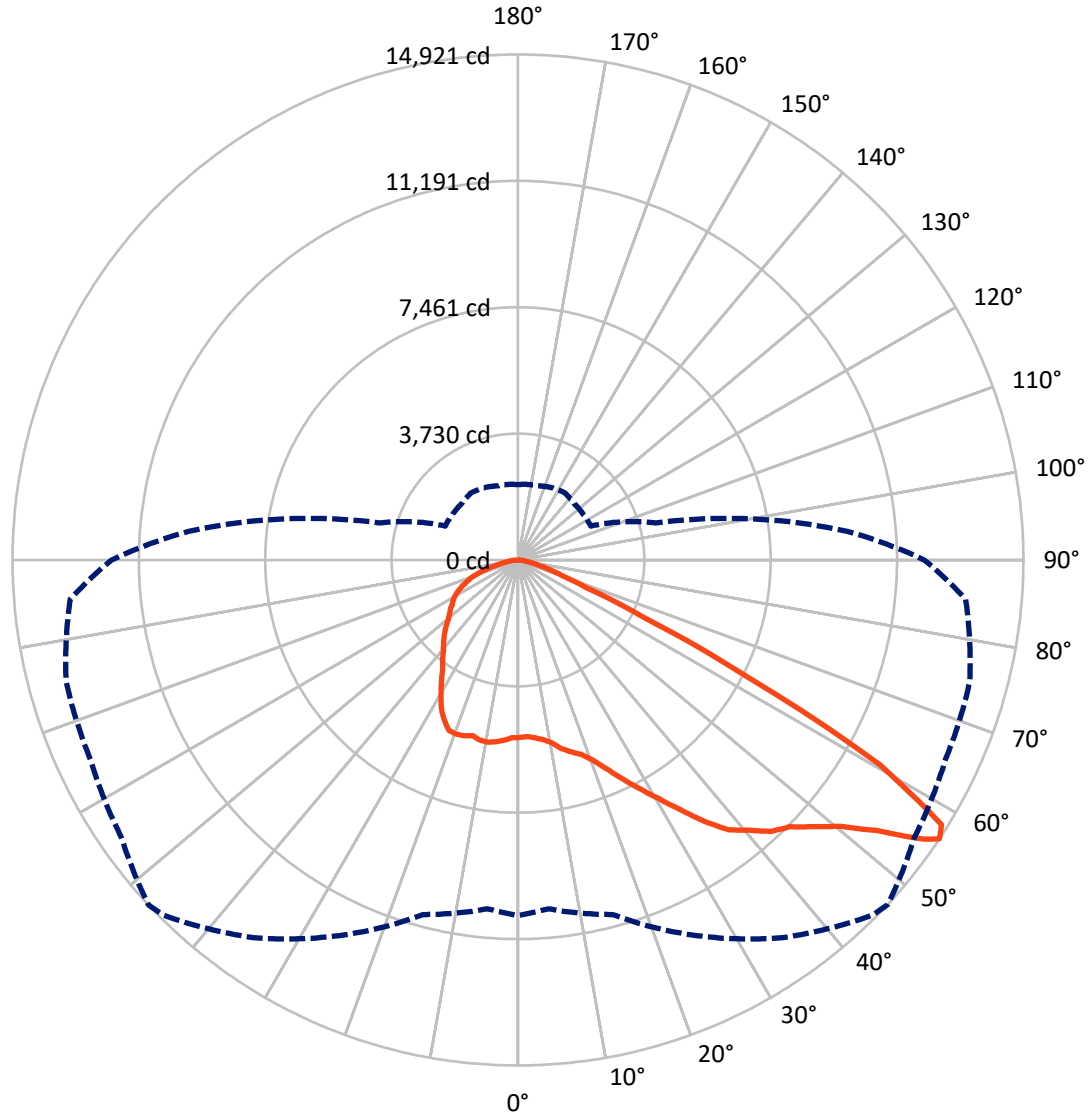
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	8268.2	0.0	8268.2
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	17823.8	0.0	17823.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	26092.0	0.0	26092.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.7	2.0
10°-20°	1610.9	6.2
20°-30°	2847.7	10.9
30°-40°	4277.2	16.4
40°-50°	5870.0	22.5
50°-60°	6993.3	26.8
60°-70°	2992.7	11.5
70°-80°	846.9	3.2
80°-90°	142.5	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°	26092.0	100.0
0°-180°	26092.0	100.0



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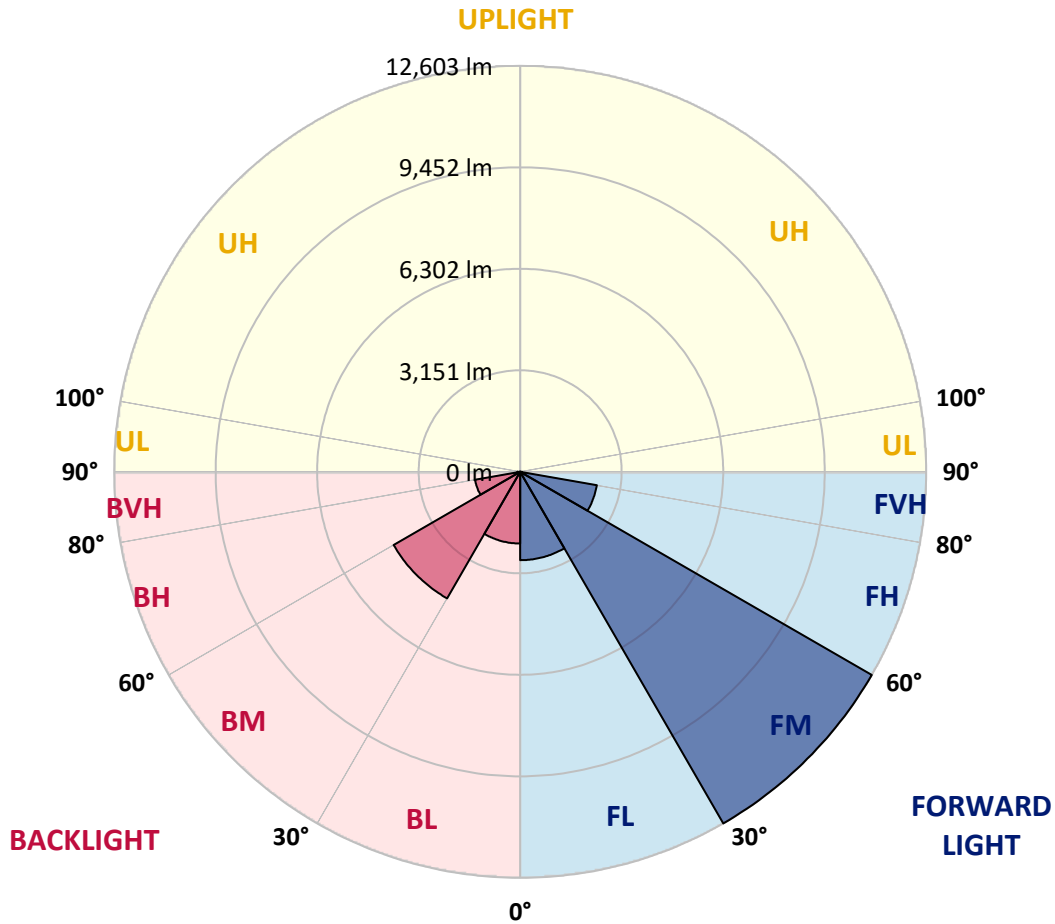
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2743.2	10.5			
FM (30°-60°)	12603.0	48.3			
FH (60°-80°)	2417.1	9.3			G2/5000
FVH (80°-90°)	60.5	0.2			G1/100
BL (0°-30°)	2226.2	8.5	B3/2500		
BM (30°-60°)	4537.5	17.4	B3/5000		
BH (60°-80°)	1422.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	82.0	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°	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1
2.5°	5221.1	5211.1	5204.5	5257.7	5237.8	5241.1	5221.1	5241.1	5254.4	5224.5	5267.7
5°	5211.1	5241.1	5214.5	5231.1	5274.4	5261.1	5274.4	5314.3	5304.3	5294.3	5281.0
7.5°	5304.3	5307.6	5327.6	5334.3	5347.6	5334.3	5354.2	5390.8	5380.9	5324.3	5330.9
10°	5437.4	5444.1	5447.4	5484.0	5507.3	5510.6	5487.3	5454.1	5450.7	5527.3	5474.0
12.5°	5590.5	5573.9	5613.8	5627.1	5653.7	5683.7	5713.6	5643.7	5687.0	5690.3	5627.1
15°	5813.5	5830.1	5783.5	5783.5	5793.5	5796.8	5880.0	5846.7	5840.1	5803.5	5830.1
17.5°	6146.2	6033.1	6029.7	5983.2	5976.5	6003.1	6033.1	6059.7	6149.5	6076.3	5933.2
20°	6389.1	6415.8	6319.3	6262.7	6272.7	6332.6	6302.6	6422.4	6485.6	6365.8	6226.1
22.5°	6818.4	6728.6	6751.9	6625.4	6635.4	6698.6	6695.3	6818.4	6855.0	6665.3	6462.3
25°	7107.9	7084.6	7104.6	7004.8	7018.1	7068.0	7147.8	7350.8	7290.9	7081.3	6612.1
27.5°	7530.5	7483.9	7467.3	7430.7	7417.4	7550.5	7643.7	7860.0	7816.7	7510.6	6878.3
30°	7963.1	7933.2	7949.8	7800.1	7853.3	8136.2	8162.8	8459.0	8439.0	7899.9	7174.5
32.5°	8262.6	8279.3	8309.2	8226.0	8462.3	8688.6	8778.4	9114.5	9131.1	8568.8	7746.8
35°	8745.1	8688.6	8705.2	8801.7	8911.5	9324.1	9470.6	9693.5	9833.3	9270.9	8295.9
37.5°	9048.0	9107.8	9038.0	9191.0	9477.2	9973.0	10106.2	10335.8	10482.2	9963.1	9044.6
40°	9520.5	9424.0	9473.9	9583.7	9876.5	10522.1	10485.5	10721.8	10768.4	10552.1	9743.4
42.5°	10029.6	9983.0	9913.1	10162.7	10409.0	10878.2	10951.4	10841.6	11077.8	11127.7	10741.7
45°	10638.6	10695.2	10705.1	10711.8	10928.1	11337.4	11237.6	11141.1	11413.9	11776.6	11360.7
47.5°	11204.3	11024.6	11154.4	11334.1	11640.2	11643.5	11760.0	11530.4	11819.9	12142.7	11919.7
50°	11394.0	11307.4	11480.5	11819.9	12292.4	12342.4	12355.7	12029.5	12179.3	12435.5	12112.7
52.5°	11320.8	11290.8	11733.4	12259.2	12951.3	13204.2	13270.8	12868.1	12951.3	12834.8	12538.7
55°	10971.3	11061.2	11507.1	12578.6	13640.1	14422.1	14548.6	14039.5	13510.4	13600.2	13274.1
56°	10492.2	10335.8	10834.9	12215.9	13610.2	14818.1	14921.3	14285.7	13926.3	13809.9	13267.4
57.5°	8901.5	8698.5	9354.1	10991.3	12854.8	14668.4	14744.9	14388.9	13856.4	13620.2	12299.1
60°	5211.1	5311.0	6142.9	7580.4	9916.5	12026.2	12282.5	12542.0	12186.0	11127.7	9154.4
62.5°	2515.7	2452.5	3048.2	4345.9	6043.1	7676.9	7600.4	8329.2	8728.5	7906.6	5780.2
65°	1317.8	1311.1	1663.8	2372.6	3321.0	4033.1	4103.0	4495.7	5044.8	4073.1	2935.0
67.5°	968.4	995.0	1171.3	1667.2	2136.4	2179.6	2169.6	2366.0	2419.2	2046.5	1803.6
70°	758.7	772.0	901.8	1267.8	1590.6	1424.2	1394.3	1417.6	1574.0	1640.5	1560.7
72.5°	549.1	562.4	672.2	855.2	995.0	971.7	991.6	1121.4	1314.4	1384.3	1301.1
75°	366.0	376.0	435.9	522.4	589.0	635.6	672.2	821.9	1001.6	1041.6	1001.6
77.5°	252.9	262.9	302.8	369.4	376.0	406.0	419.3	489.2	599.0	648.9	622.3
80°	143.1	143.1	163.1	189.7	232.9	272.9	279.5	336.1	386.0	419.3	425.9
82.5°	66.6	69.9	86.5	116.5	153.1	189.7	196.3	232.9	269.5	302.8	312.8
85°	33.3	36.6	49.9	69.9	93.2	113.1	109.8	113.1	119.8	113.1	116.5
87.5°	10.0	10.0	13.3	16.6	13.3	16.6	16.6	20.0	23.3	26.6	29.9
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°	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1	5241.1
2.5°	5271.0	5281.0	5214.5	5277.7	5254.4	5251.1	5297.7	5291.0	5307.6	5301.0	5261.1
5°	5274.4	5251.1	5321.0	5257.7	5287.7	5350.9	5307.6	5407.5	5357.6	5390.8	5317.6
7.5°	5377.5	5384.2	5370.9	5397.5	5384.2	5414.1	5390.8	5414.1	5374.2	5377.5	5444.1
10°	5467.4	5447.4	5470.7	5437.4	5460.7	5450.7	5397.5	5380.9	5394.2	5377.5	5420.8
12.5°	5633.8	5597.2	5580.5	5540.6	5514.0	5414.1	5330.9	5284.3	5347.6	5357.6	5337.6
15°	5803.5	5806.8	5730.3	5640.4	5474.0	5324.3	5344.2	5360.9	5360.9	5387.5	5337.6
17.5°	5910.0	5910.0	5840.1	5660.4	5490.7	5404.1	5384.2	5330.9	5284.3	5277.7	5274.4
20°	6096.3	6039.7	5880.0	5657.0	5484.0	5444.1	5294.3	5167.9	5071.4	5038.1	5034.8
22.5°	6309.3	6166.2	5943.2	5663.7	5474.0	5417.5	5137.9	4948.3	4775.2	4702.0	4712.0
25°	6505.6	6276.0	5979.8	5633.8	5437.4	5164.6	4851.8	4588.9	4409.2	4349.3	4319.3
27.5°	6642.0	6392.5	5979.8	5660.4	5301.0	4881.7	4562.2	4226.1	4069.7	4029.8	4036.5
30°	6825.1	6538.9	6083.0	5603.8	5028.1	4515.7	4133.0	3913.3	3820.2	3786.9	3810.2
32.5°	7254.3	6921.6	6226.1	5467.4	4705.3	4149.6	3840.1	3717.0	3580.6	3514.0	3490.7
35°	7720.2	7284.3	6365.8	5237.8	4342.6	3816.8	3623.8	3510.7	3347.6	3274.4	3287.7
37.5°	8379.1	7750.2	6375.8	4858.4	3950.0	3630.5	3454.1	3277.8	3144.7	3031.5	2998.2
40°	9267.6	8385.7	6352.5	4459.1	3633.8	3410.9	3281.1	3061.5	2911.7	2831.9	2848.5
42.5°	10049.6	9131.1	6256.0	4006.5	3347.6	3261.1	3114.7	2898.4	2752.0	2668.8	2662.1
45°	10708.5	9680.2	6073.0	3620.5	3108.0	3094.7	2925.0	2758.6	2642.2	2565.6	2598.9
47.5°	11317.4	10122.8	5796.8	3234.5	2888.4	2915.0	2752.0	2648.8	2575.6	2505.7	2502.4
50°	11537.1	10116.1	5553.9	2915.0	2712.1	2698.7	2692.1	2582.3	2505.7	2445.8	2472.5
52.5°	11903.1	10229.3	5291.0	2695.4	2552.3	2555.7	2578.9	2499.1	2412.6	2376.0	2409.2
55°	12428.9	10245.9	4712.0	2439.2	2419.2	2442.5	2442.5	2389.3	2316.1	2286.1	2269.5
56°	11999.6	9750.1	4226.1	2372.6	2352.7	2352.7	2415.9	2356.0	2266.1	2242.9	2222.9
57.5°	11067.9	8542.1	3537.3	2292.8	2262.8	2309.4	2342.7	2279.5	2196.3	2163.0	2183.0
60°	7633.7	5780.2	2658.8	2119.7	2119.7	2196.3	2222.9	2129.7	2093.1	2089.8	2063.2
62.5°	4455.8	3367.6	2079.8	1963.3	1970.0	2033.2	2053.2	1999.9	1953.3	2009.9	2036.5
65°	2362.7	2009.9	1783.6	1796.9	1800.3	1850.2	1936.7	1933.4	1930.1	1946.7	1950.0
67.5°	1710.4	1670.5	1620.6	1607.3	1613.9	1650.5	1737.0	1803.6	1800.3	1760.3	1730.4
70°	1524.1	1467.5	1437.6	1440.9	1414.3	1457.5	1527.4	1570.7	1494.1	1447.5	1427.6
72.5°	1267.8	1251.2	1231.2	1234.6	1181.3	1171.3	1091.5	1091.5	1071.5	1058.2	1081.5
75°	968.4	961.7	971.7	955.0	898.5	838.6	792.0	748.7	682.2	655.6	642.2
77.5°	612.3	632.3	655.6	618.9	595.7	552.4	505.8	462.5	409.3	379.4	379.4
80°	416.0	432.6	449.2	442.6	416.0	376.0	339.4	292.8	256.2	232.9	229.6
82.5°	316.1	329.4	352.7	326.1	299.5	266.2	236.3	203.0	169.7	143.1	143.1
85°	113.1	129.8	143.1	156.4	166.4	169.7	146.4	119.8	96.5	76.5	73.2
87.5°	29.9	33.3	36.6	33.3	33.3	33.3	36.6	33.3	29.9	23.3	23.3
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)