

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: P529624

Luminaire Tested: **GALN-SA4D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24886 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

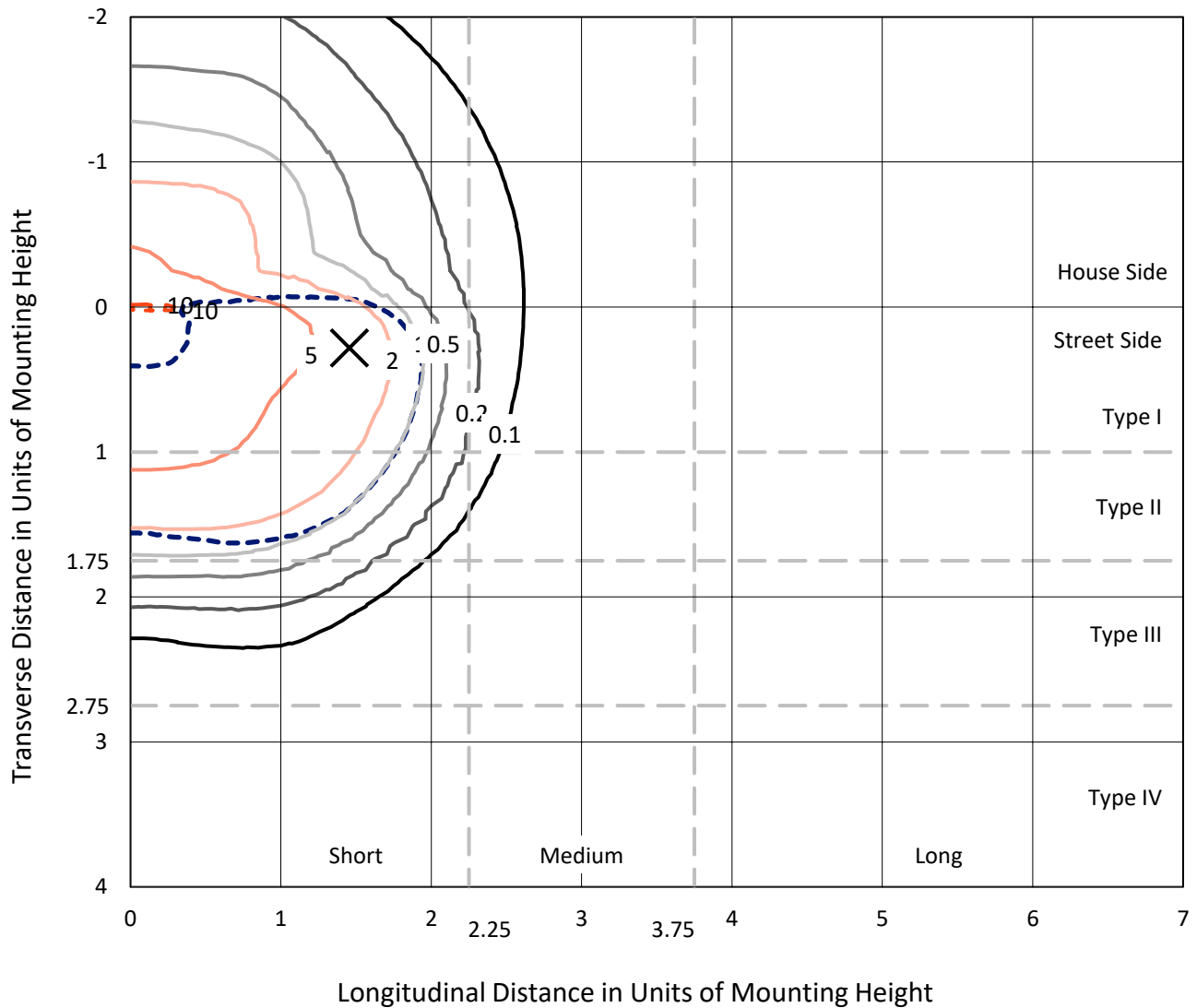
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

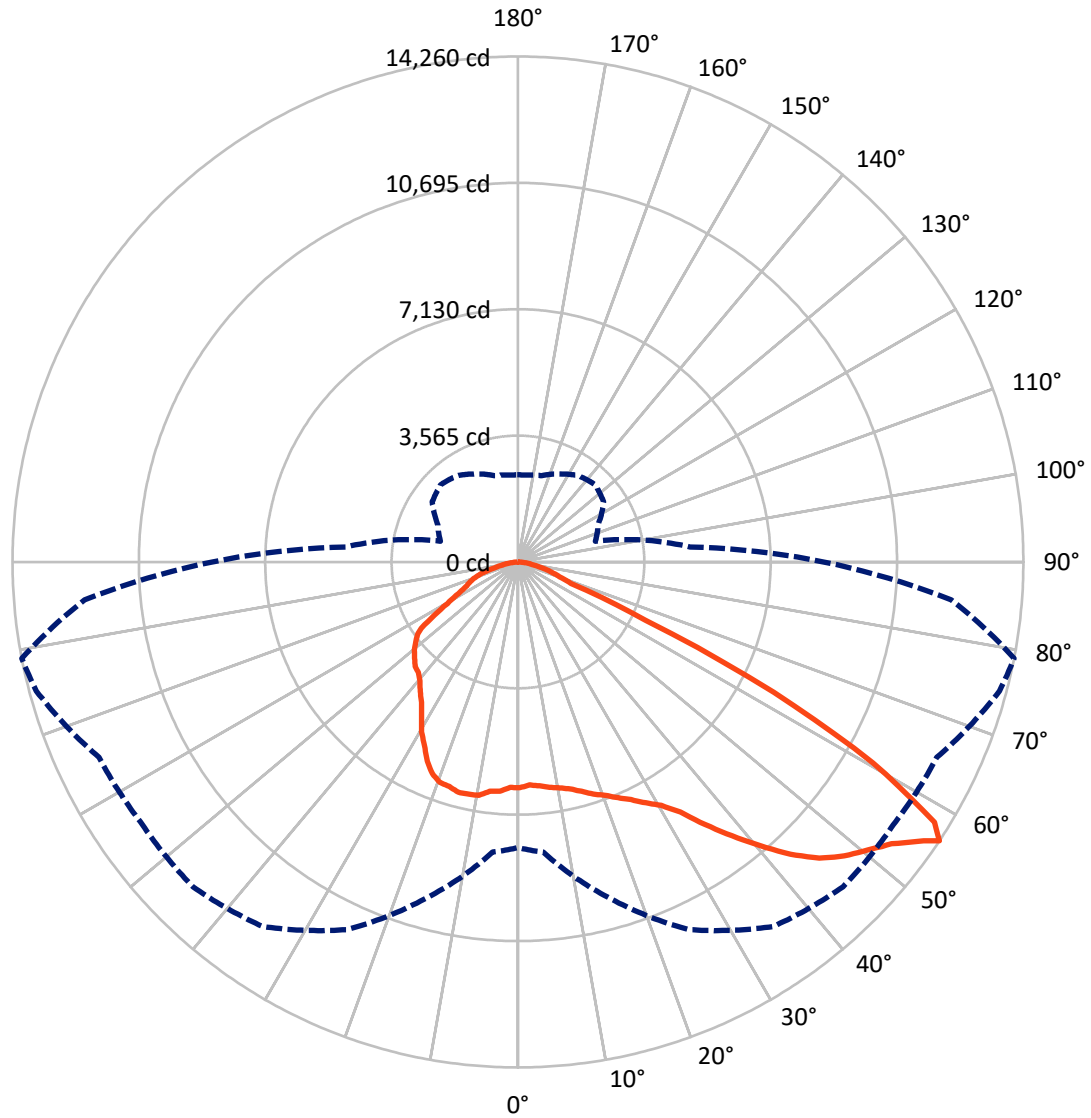
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7349.4	0.0	7349.4
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17536.6	0.0	17536.6
	% Fixture	70.5	0.0	70.5
Total	Lumens	24886.0	0.0	24886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.9	2.3
10°-20°	1584.3	6.4
20°-30°	2710.5	10.9
30°-40°	4154.1	16.7
40°-50°	5614.3	22.6
50°-60°	6448.2	25.9
60°-70°	2939.3	11.8
70°-80°	724.7	2.9
80°-90°	131.7	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°	24886.0	100.0
0°-180°	24886.0	100.0

Coefficient of Utilization



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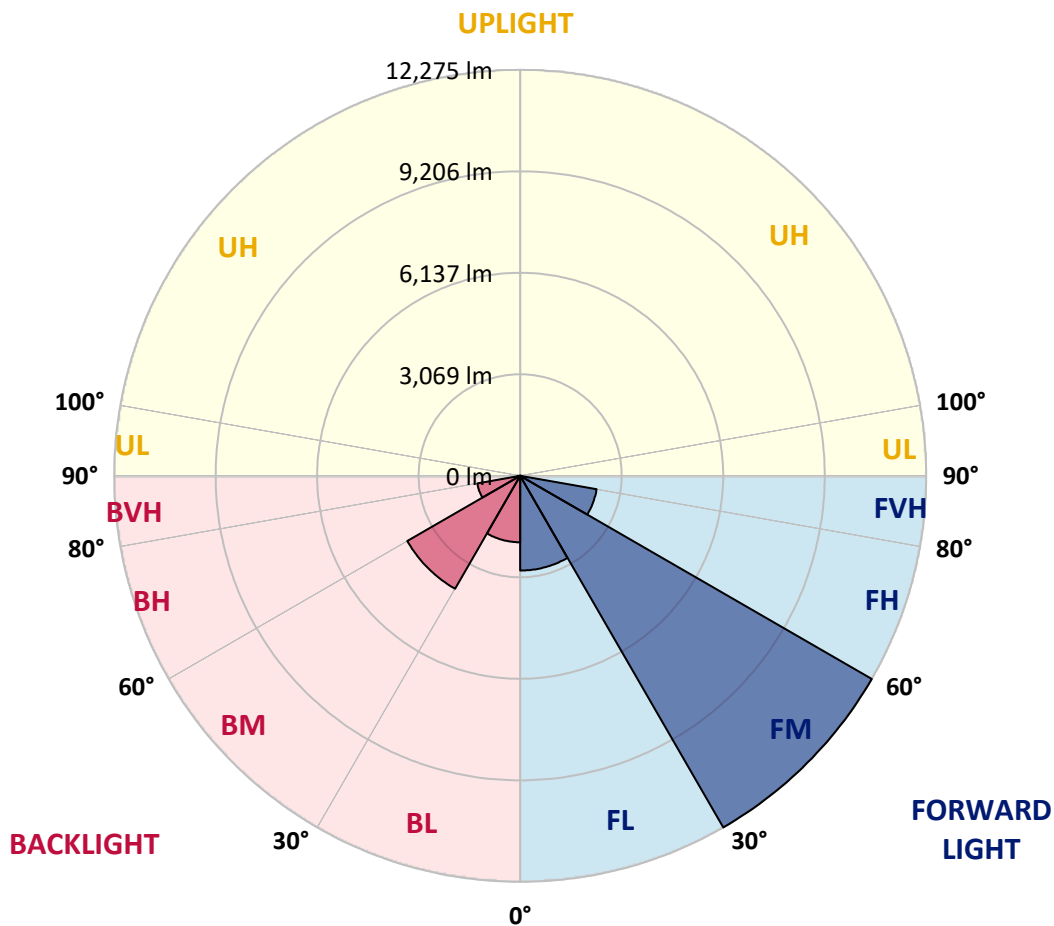
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2863.3	11.5			
FM (30°-60°)	12274.5	49.3			
FH (60°-80°)	2346.2	9.4			G2/5000
FVH (80°-90°)	52.6	0.2			G1/100
BL (0°-30°)	2010.4	8.1	B3/2500		
BM (30°-60°)	3942.1	15.8	B3/5000		
BH (60°-80°)	1317.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	79.1	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°	55°	65°	75°	79°	85°
0°	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3
2.5°	6057.3	6041.8	6079.0	6106.9	6141.0	6184.4	6206.1	6218.5	6327.0	6299.1	6382.8
5°	5927.1	5886.8	5914.7	5936.4	5995.3	6048.0	6106.9	6199.9	6299.1	6342.5	6444.8
7.5°	5812.4	5790.7	5784.5	5800.0	5880.6	5948.8	6051.1	6187.5	6348.7	6420.0	6478.9
10°	5623.3	5592.3	5638.8	5741.1	5762.8	5905.4	6023.2	6218.5	6358.0	6482.0	6655.6
12.5°	5539.6	5508.6	5517.9	5576.8	5728.7	5865.1	6004.6	6224.7	6519.2	6568.8	6801.3
15°	5672.9	5641.9	5651.2	5635.7	5781.4	5852.7	6072.8	6348.7	6630.8	6714.5	6962.5
17.5°	5976.7	5979.8	5939.5	5905.4	5871.3	6023.2	6175.1	6423.1	6674.2	6885.0	7071.0
20°	6556.4	6454.1	6373.5	6181.3	6128.6	6193.7	6385.9	6624.6	6850.9	7024.5	7235.3
22.5°	7002.8	7012.1	6897.4	6581.2	6466.5	6494.4	6658.7	6854.0	7102.0	7226.0	7467.8
25°	7650.7	7585.6	7461.6	7210.5	6953.2	6974.9	7095.8	7272.5	7340.7	7427.5	7691.0
27.5°	8242.8	8261.4	8016.5	7780.9	7461.6	7399.6	7616.6	7647.6	7532.9	7697.2	7787.1
30°	8844.2	8828.7	8667.5	8391.6	8078.5	8090.9	8187.0	8035.1	7877.0	7966.9	8028.9
32.5°	9467.3	9290.6	9284.4	9036.4	8797.7	8683.0	8565.2	8639.6	8394.7	8413.3	8354.4
35°	9966.4	9991.2	9848.6	9671.9	9554.1	9352.6	9030.2	9163.5	9117.0	9095.3	8841.1
37.5°	10329.1	10233.0	10304.3	10245.4	10133.8	9882.7	9547.9	9675.0	9696.7	9802.1	9507.6
40°	10626.7	10586.4	10775.5	10806.5	10729.0	10186.5	9585.1	9963.3	10288.8	10518.2	10167.9
42.5°	10769.3	10856.1	11054.5	11293.2	11119.6	10539.9	9777.3	10183.4	10908.8	11271.5	10794.1
45°	10961.5	10849.9	11144.4	11581.5	11584.6	10837.5	9963.3	10481.0	11392.4	11919.4	11221.9
47.5°	10766.2	10822.0	11125.8	11680.7	11823.3	11150.6	10465.5	10902.6	11925.6	12393.7	11618.7
50°	10329.1	10440.7	10995.6	11572.2	12003.1	11482.3	11042.1	11358.3	12418.5	12775.0	11683.8
52.5°	9873.4	9935.4	10803.4	11655.9	12083.7	11910.1	11814.0	11987.6	13019.9	13205.9	11764.4
55°	8633.4	8927.9	10167.9	11618.7	12477.4	12682.0	12607.6	12861.8	13701.9	13887.9	12204.6
56°	8059.9	8214.9	9786.6	11445.1	12554.9	12964.1	12926.9	13041.6	14064.6	14259.9	12272.8
57.5°	6999.7	7012.1	8345.1	10676.3	12263.5	13047.8	13010.6	13100.5	13993.3	13860.0	11674.5
60°	4380.3	4572.5	5679.1	8211.8	10428.3	12105.4	12316.2	11593.9	11798.5	11516.4	9082.9
62.5°	2269.2	2241.3	2976.0	4801.9	6922.2	8667.5	8862.8	8828.7	8512.5	8100.2	5933.3
65°	1131.5	1137.7	1556.2	2377.7	3546.4	4538.4	5084.0	5142.9	4302.8	3958.7	2814.8
67.5°	821.5	852.5	1119.1	1453.9	1670.9	1869.3	2290.9	2247.5	1701.9	1618.2	1500.4
70°	638.6	666.5	908.3	1109.8	1007.5	1007.5	1097.4	1134.6	1212.1	1246.2	1286.5
72.5°	465.0	486.7	694.4	765.7	660.3	709.9	821.5	908.3	988.9	1001.3	1047.8
75°	319.3	337.9	455.7	421.6	396.8	489.8	601.4	682.0	740.9	771.9	799.8
77.5°	207.7	213.9	260.4	220.1	254.2	316.2	390.6	458.8	517.7	542.5	548.7
80°	93.0	102.3	111.6	139.5	176.7	226.3	279.0	334.8	372.0	381.3	399.9
82.5°	52.7	52.7	68.2	99.2	130.2	164.3	201.5	241.8	285.2	294.5	291.4
85°	27.9	27.9	40.3	58.9	80.6	96.1	93.0	96.1	102.3	117.8	114.7
87.5°	9.3	9.3	12.4	12.4	15.5	18.6	15.5	21.7	27.9	27.9	27.9
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°	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3	6367.3
2.5°	6358.0	6385.9	6348.7	6429.3	6429.3	6413.8	6336.3	6361.1	6379.7	6379.7	6395.2
5°	6478.9	6469.6	6494.4	6398.3	6339.4	6317.7	6190.6	6128.6	6075.9	6072.8	6026.3
7.5°	6547.1	6522.3	6513.0	6441.7	6181.3	6023.2	5750.4	5592.3	5558.2	5437.4	5483.8
10°	6655.6	6702.1	6655.6	6268.1	5905.4	5542.7	5276.2	5031.3	4935.2	4857.7	4811.2
12.5°	6878.8	6857.1	6587.4	6063.5	5555.1	5124.3	4727.5	4470.2	4374.1	4305.9	4299.7
15°	7067.9	6959.4	6547.1	5741.1	5009.6	4550.8	4225.3	4042.4	3999.0	4005.2	4033.1
17.5°	7133.0	7058.6	6336.3	5406.4	4603.5	4064.1	3912.2	3884.3	3924.6	3971.1	3983.5
20°	7235.3	7117.5	6249.5	4950.7	4101.3	3760.3	3751.0	3850.2	3924.6	3992.8	4002.1
22.5°	7449.2	7151.6	5967.4	4519.8	3757.2	3670.4	3760.3	3844.0	3958.7	4014.5	3964.9
25°	7511.2	7077.2	5570.6	4002.1	3540.2	3614.6	3710.7	3825.4	3906.0	3937.0	3958.7
27.5°	7563.9	6962.5	5034.4	3658.0	3472.0	3611.5	3710.7	3806.8	3850.2	3878.1	3902.9
30°	7712.7	6928.4	4569.4	3428.6	3428.6	3549.5	3676.6	3701.4	3760.3	3794.4	3837.8
32.5°	7787.1	6692.8	4092.0	3282.9	3385.2	3580.5	3589.8	3636.3	3639.4	3667.3	3620.8
35°	7982.4	6525.4	3648.7	3177.5	3403.8	3549.5	3596.0	3568.1	3416.2	3341.8	3357.3
37.5°	8125.0	6441.7	3329.4	3165.1	3406.9	3583.6	3608.4	3397.6	3239.5	3115.5	3146.5
40°	8509.4	6234.0	3087.6	3143.4	3434.8	3620.8	3552.6	3323.2	3038.0	2910.9	2889.2
42.5°	8803.9	6085.2	2935.7	3118.6	3456.5	3673.5	3524.7	3174.4	2883.0	2765.2	2796.2
45°	9144.9	6051.1	2855.1	3124.8	3493.7	3701.4	3490.6	3059.7	2749.7	2703.2	2693.9
47.5°	9265.8	5806.2	2768.3	3072.1	3484.4	3692.1	3375.9	2972.9	2700.1	2706.3	2731.1
50°	9064.3	5555.1	2703.2	2963.6	3422.4	3608.4	3196.1	2858.2	2672.2	2749.7	2793.1
52.5°	8807.0	5297.9	2569.9	2817.9	3295.3	3478.2	3112.4	2852.0	2644.3	2619.5	2628.8
55°	8884.5	5087.1	2383.9	2619.5	3090.7	3236.4	3019.4	2793.1	2576.1	2483.1	2514.1
56°	8633.4	4870.1	2263.0	2495.5	2951.2	3081.4	2972.9	2740.4	2520.3	2458.3	2458.3
57.5°	7923.5	4141.6	2104.9	2297.1	2656.7	2811.7	2883.0	2709.4	2458.3	2349.8	2352.9
60°	5843.4	2945.0	1887.9	2024.3	2201.0	2325.0	2656.7	2622.6	2303.3	2228.9	2201.0
62.5°	3602.2	2151.4	1732.9	1785.6	1875.5	1977.8	2318.8	2374.6	2139.0	2058.4	2039.8
65°	2018.1	1646.1	1615.1	1636.8	1680.2	1732.9	1925.1	2049.1	1887.9	1763.9	1757.7
67.5°	1475.6	1472.5	1497.3	1515.9	1534.5	1534.5	1581.0	1630.6	1608.9	1509.7	1500.4
70°	1311.3	1320.6	1339.2	1342.3	1348.5	1326.8	1289.6	1274.1	1298.9	1236.9	1224.5
72.5°	1081.9	1112.9	1134.6	1137.7	1103.6	1075.7	1026.1	973.4	954.8	942.4	939.3
75°	830.8	852.5	861.8	858.7	846.3	806.0	747.1	694.4	660.3	623.1	641.7
77.5°	561.1	592.1	607.6	607.6	589.0	527.0	499.1	458.8	424.7	384.4	390.6
80°	393.7	415.4	440.2	437.1	406.1	375.1	334.8	297.6	269.7	238.7	235.6
82.5°	294.5	306.9	319.3	313.1	291.4	260.4	232.5	198.4	167.4	145.7	145.7
85°	105.4	114.7	139.5	145.7	158.1	158.1	133.3	111.6	89.9	74.4	74.4
87.5°	31.0	31.0	34.1	34.1	31.0	34.1	27.9	31.0	34.1	21.7	21.7
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)