

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: P529202

Luminaire Tested: **GALN-SA4B-750-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-750-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18881 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

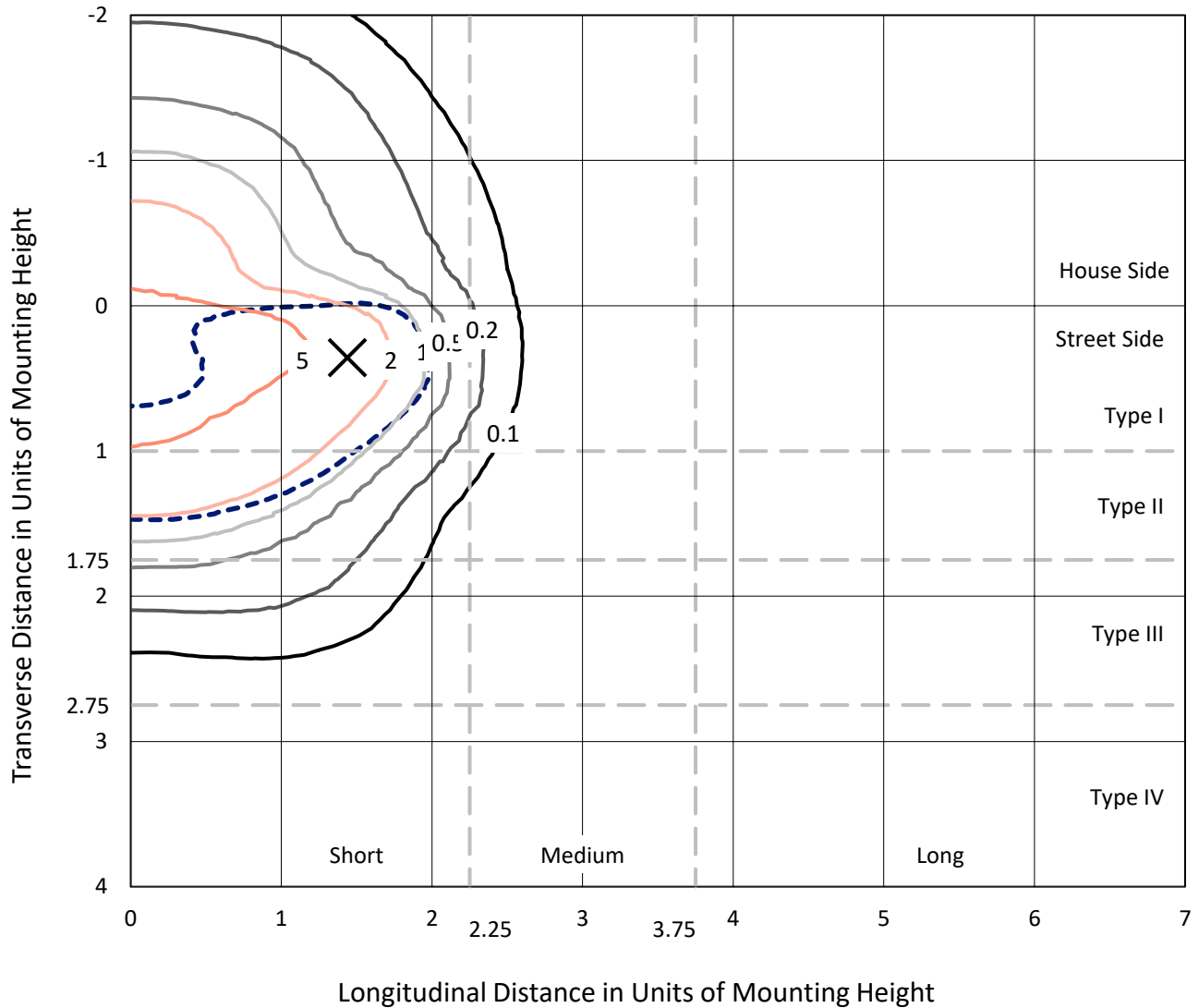
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

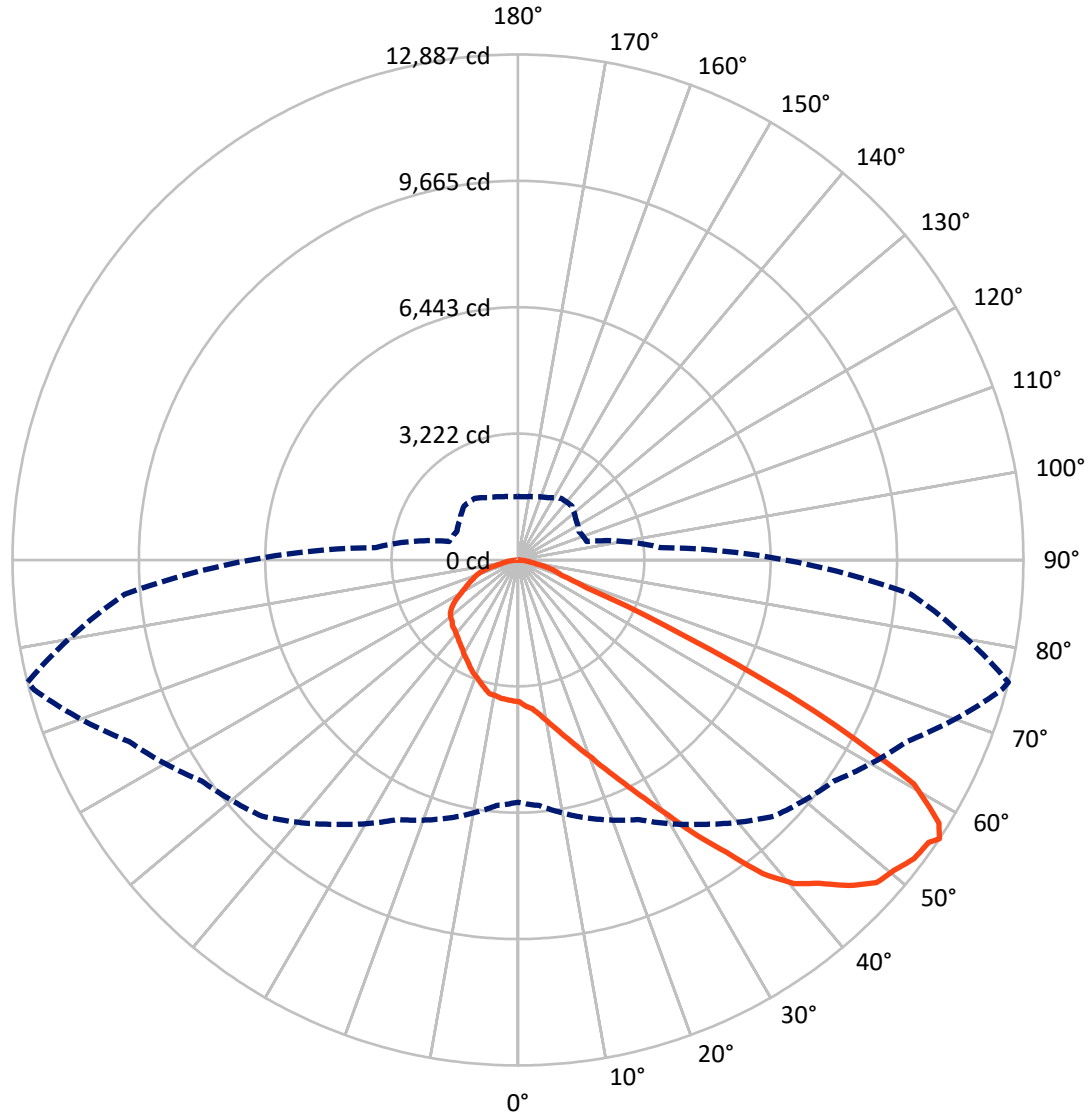
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5076.5	0.0	5076.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13804.5	0.0	13804.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	18881.0	0.0	18881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.3	1.9
10°-20°	1125.4	6.0
20°-30°	1968.2	10.4
30°-40°	3081.7	16.3
40°-50°	4482.9	23.7
50°-60°	4927.0	26.1
60°-70°	2199.2	11.6
70°-80°	635.2	3.4
80°-90°	103.0	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°	18881.0	100.0
0°-180°	18881.0	100.0

Coefficient of Utilization



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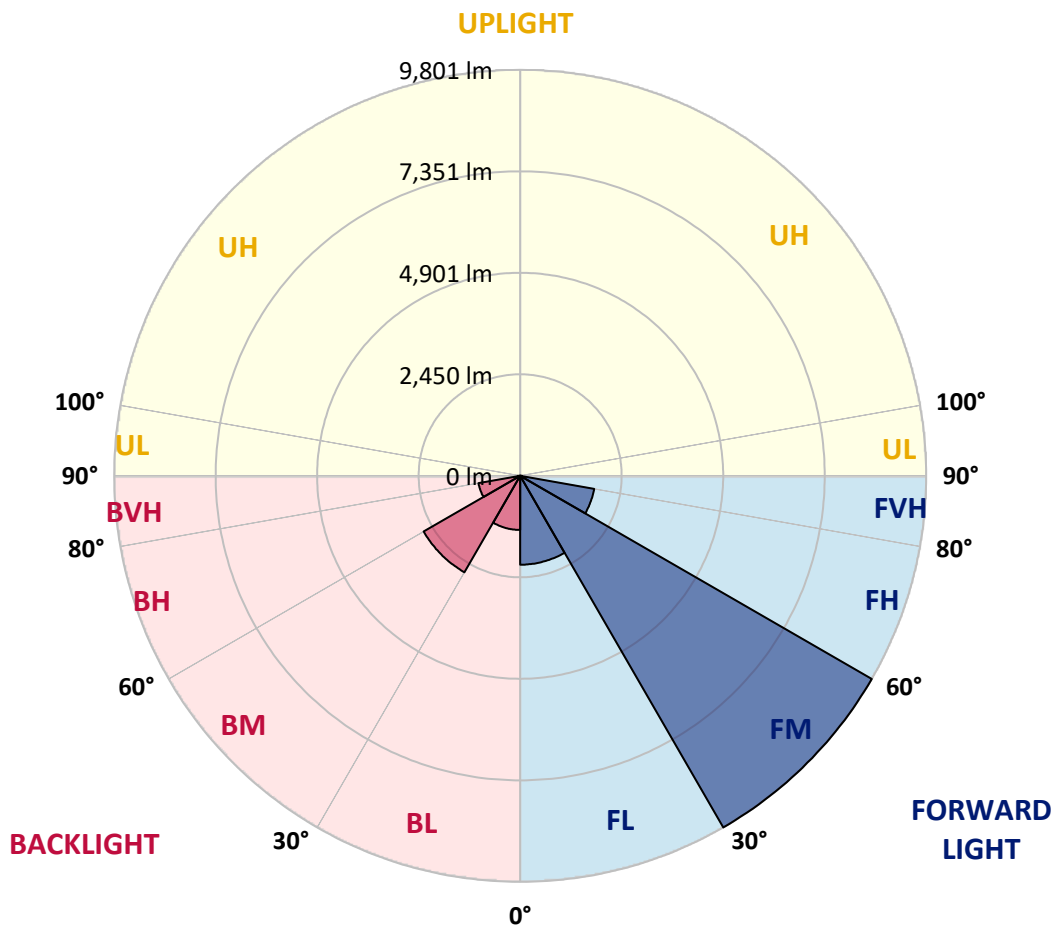
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2145.6	11.4			
FM (30°-60°)	9801.5	51.9			
FH (60°-80°)	1813.0	9.6			G2/5000
FVH (80°-90°)	44.4	0.2			G1/100
BL (0°-30°)	1306.3	6.9	B3/2500		
BM (30°-60°)	2690.2	14.2	B3/5000		
BH (60°-80°)	1021.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	58.7	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°	76°	85°
0°	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6
2.5°	3979.8	3916.1	3911.2	3894.1	3903.9	3859.8	3813.3	3752.1	3688.5	3727.7	3634.7
5°	4258.8	4173.1	4207.4	4148.7	4156.0	4097.3	4001.8	3930.8	3852.5	3806.0	3739.9
7.5°	4356.7	4364.0	4388.5	4378.7	4329.8	4329.8	4266.1	4141.3	4004.3	3977.3	3867.2
10°	4488.9	4491.3	4464.4	4471.7	4540.3	4508.5	4452.2	4398.3	4222.1	4190.3	3994.5
12.5°	4535.4	4491.3	4535.4	4574.5	4655.3	4699.4	4687.1	4648.0	4459.5	4437.5	4151.1
15°	4542.7	4515.8	4552.5	4640.6	4711.6	4897.6	4990.6	4963.7	4714.1	4716.5	4327.3
17.5°	4508.5	4545.2	4559.9	4635.7	4799.7	4973.5	5242.7	5279.4	5073.8	5042.0	4550.1
20°	4555.0	4528.0	4547.6	4616.1	4834.0	5105.7	5458.1	5700.4	5411.6	5389.6	4780.1
22.5°	4733.6	4696.9	4692.0	4736.1	4892.7	5174.2	5685.7	6121.4	5822.8	5835.0	5066.5
25°	4873.1	4892.7	4875.6	4873.1	4971.0	5277.0	5986.8	6623.2	6380.9	6309.9	5404.3
27.5°	5113.0	5159.5	5125.2	5171.7	5149.7	5431.2	6202.2	7178.8	6983.0	6887.5	5710.2
30°	5445.9	5470.4	5438.5	5438.5	5372.5	5646.6	6398.0	7758.8	7678.1	7548.4	6070.0
32.5°	5884.0	5920.7	5857.1	5820.4	5810.6	5967.2	6750.4	8331.6	8468.6	8358.5	6547.3
35°	6464.1	6442.0	6366.2	6331.9	6199.7	6459.2	7274.2	8990.0	9349.8	9154.0	7124.9
37.5°	6975.6	6941.4	6936.5	6745.5	6777.4	6990.3	7719.7	9489.3	10204.0	10147.7	7734.4
40°	7452.9	7484.7	7536.1	7428.4	7379.5	7614.4	8238.6	9871.1	10867.3	10845.3	8204.3
42.5°	7964.4	7935.1	8025.6	7935.1	7861.6	8194.5	8801.5	10135.5	11449.8	11268.7	8696.3
45°	8706.1	8613.1	8644.9	8652.2	8598.4	8720.7	9034.0	10326.4	11858.6	11839.0	9056.1
47.5°	9325.3	9327.8	9273.9	9232.3	9068.3	9190.7	9293.5	10446.3	12328.5	12296.7	9195.6
50°	9555.4	9523.6	9680.2	9770.8	9780.6	9530.9	9496.6	10512.4	12575.7	12436.2	9335.1
52.5°	8728.1	8757.5	9004.7	9543.1	9854.0	9880.9	9734.0	10649.4	12676.0	12646.7	9447.7
55°	7024.6	7166.5	7572.8	8194.5	8931.2	9741.4	9991.0	10791.4	12729.9	12705.4	9947.0
56°	6175.3	6285.4	6814.1	7301.1	8226.3	9234.7	9829.5	10943.2	12771.5	12886.5	10064.5
57.5°	4971.0	5098.3	5477.7	6030.9	7122.5	8270.4	9384.0	10757.1	12610.0	12654.0	10150.1
60°	3108.4	3120.7	3575.9	3940.6	4709.2	5830.1	7161.6	9359.6	11670.1	11606.5	9117.3
62.5°	2038.8	2041.3	2454.9	2753.5	3103.5	3360.5	4214.7	6207.1	8610.6	8498.0	6491.0
65°	1431.8	1463.7	1784.3	2183.2	2325.2	2190.6	2163.7	3272.4	4809.5	4648.0	3487.8
67.5°	1047.6	1050.0	1333.9	1762.3	1967.9	1666.8	1353.5	1598.3	1904.2	1899.3	1615.4
70°	692.7	722.0	939.9	1316.8	1551.8	1338.8	1106.3	1143.0	1211.6	1211.6	1201.8
72.5°	403.9	430.8	575.2	834.6	871.3	837.1	876.2	979.0	1023.1	1020.6	1008.4
75°	230.1	242.3	274.1	347.6	433.2	511.5	643.7	741.6	785.7	812.6	780.8
77.5°	134.6	142.0	161.5	198.3	225.2	276.6	350.0	418.5	477.3	469.9	474.8
80°	71.0	71.0	90.6	117.5	156.6	195.8	232.5	271.7	303.5	310.8	318.2
82.5°	41.6	44.1	58.7	85.7	112.6	139.5	178.7	205.6	235.0	237.4	242.3
85°	22.0	24.5	36.7	56.3	75.9	85.7	88.1	83.2	90.6	85.7	97.9
87.5°	7.3	7.3	12.2	9.8	9.8	12.2	14.7	14.7	19.6	19.6	19.6
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°	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6	3612.6
2.5°	3632.2	3632.2	3590.6	3512.3	3500.0	3468.2	3438.9	3436.4	3414.4	3394.8	3385.0
5°	3700.8	3624.9	3563.7	3492.7	3409.5	3370.3	3326.3	3277.3	3257.7	3277.3	3274.9
7.5°	3779.1	3715.4	3531.9	3399.7	3304.2	3265.1	3216.1	3164.7	3169.6	3169.6	3135.4
10°	3854.9	3769.3	3475.6	3306.7	3167.2	3137.8	3110.9	3130.5	3154.9	3159.8	3137.8
12.5°	3982.2	3788.9	3448.6	3213.7	3125.6	3061.9	3079.1	3132.9	3184.3	3169.6	3186.8
15°	4077.7	3806.0	3326.3	3118.2	3008.1	3037.5	3098.6	3135.4	3221.0	3211.2	3228.4
17.5°	4170.7	3815.8	3206.3	2991.0	2944.4	3025.2	3071.7	3177.0	3203.9	3262.6	3284.7
20°	4361.6	3835.4	3084.0	2912.6	2897.9	2991.0	3071.7	3120.7	3179.4	3230.8	3230.8
22.5°	4459.5	3825.6	3003.2	2809.8	2856.3	2915.1	2988.5	3071.7	3071.7	3120.7	3123.1
25°	4581.9	3786.4	2875.9	2760.9	2795.1	2851.4	2934.7	2905.3	2937.1	2937.1	2976.3
27.5°	4721.4	3703.2	2765.8	2672.8	2741.3	2802.5	2814.7	2795.1	2758.4	2753.5	2738.8
30°	4834.0	3600.4	2685.0	2643.4	2699.7	2734.0	2694.8	2653.2	2589.5	2584.7	2550.4
32.5°	4988.2	3473.1	2584.7	2570.0	2633.6	2636.1	2623.8	2560.2	2467.2	2428.0	2388.8
35°	5247.6	3399.7	2508.8	2530.8	2550.4	2543.0	2521.0	2452.5	2359.5	2342.3	2327.7
37.5°	5438.5	3345.9	2430.5	2457.4	2474.5	2484.3	2418.2	2342.3	2344.8	2310.5	2300.7
40°	5653.9	3311.6	2366.8	2379.1	2381.5	2413.3	2332.5	2295.8	2313.0	2290.9	2305.6
42.5°	5930.5	3321.4	2300.7	2290.9	2337.4	2325.2	2286.0	2237.1	2246.9	2180.8	2190.6
45°	6077.4	3387.5	2261.6	2217.5	2268.9	2266.5	2215.1	2168.6	2109.8	1982.5	1987.4
47.5°	6175.3	3404.6	2168.6	2139.2	2193.0	2224.9	2166.1	2058.4	1975.2	1884.6	1862.6
50°	6275.6	3436.4	2124.5	2063.3	2085.3	2161.2	2087.8	1985.0	1904.2	1823.5	1835.7
52.5°	6363.7	3497.6	2038.8	1948.3	1987.4	2070.7	2031.5	1906.7	1818.6	1752.5	1732.9
55°	6755.3	3634.7	1894.4	1776.9	1870.0	1975.2	1953.2	1801.4	1706.0	1671.7	1666.8
56°	6816.5	3639.6	1818.6	1718.2	1803.9	1943.4	1916.5	1754.9	1669.3	1615.4	1617.9
57.5°	6826.3	3580.8	1710.9	1664.4	1737.8	1896.9	1862.6	1718.2	1600.7	1551.8	1537.1
60°	6006.4	2795.1	1576.2	1546.9	1632.5	1754.9	1742.7	1617.9	1485.7	1429.4	1456.3
62.5°	4094.8	2048.6	1471.0	1466.1	1510.2	1630.1	1598.3	1485.7	1375.5	1338.8	1321.7
65°	2383.9	1554.2	1368.2	1348.6	1385.3	1449.0	1471.0	1353.5	1238.5	1214.0	1206.7
67.5°	1407.4	1285.0	1236.0	1204.2	1192.0	1231.1	1248.3	1179.7	1064.7	1030.4	1059.8
70°	1177.3	1143.0	1145.5	1091.6	1062.3	1035.3	1020.6	959.5	864.0	819.9	807.7
72.5°	1015.7	1001.1	991.3	942.3	915.4	854.2	790.6	729.4	658.4	621.7	624.1
75°	775.9	771.0	775.9	751.4	704.9	656.0	597.2	518.9	465.0	418.5	428.3
77.5°	462.6	477.3	484.6	474.8	455.3	411.2	374.5	323.1	271.7	235.0	230.1
80°	318.2	330.4	342.7	330.4	310.8	279.0	239.9	200.7	164.0	144.4	139.5
82.5°	242.3	254.5	261.9	249.7	225.2	190.9	164.0	137.1	107.7	88.1	83.2
85°	88.1	100.4	97.9	117.5	127.3	122.4	105.2	80.8	61.2	44.1	41.6
87.5°	24.5	22.0	24.5	24.5	24.5	22.0	19.6	19.6	19.6	12.2	9.8
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)