

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: P652574

Luminaire Tested: **GALN-SA8B-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39381.5 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

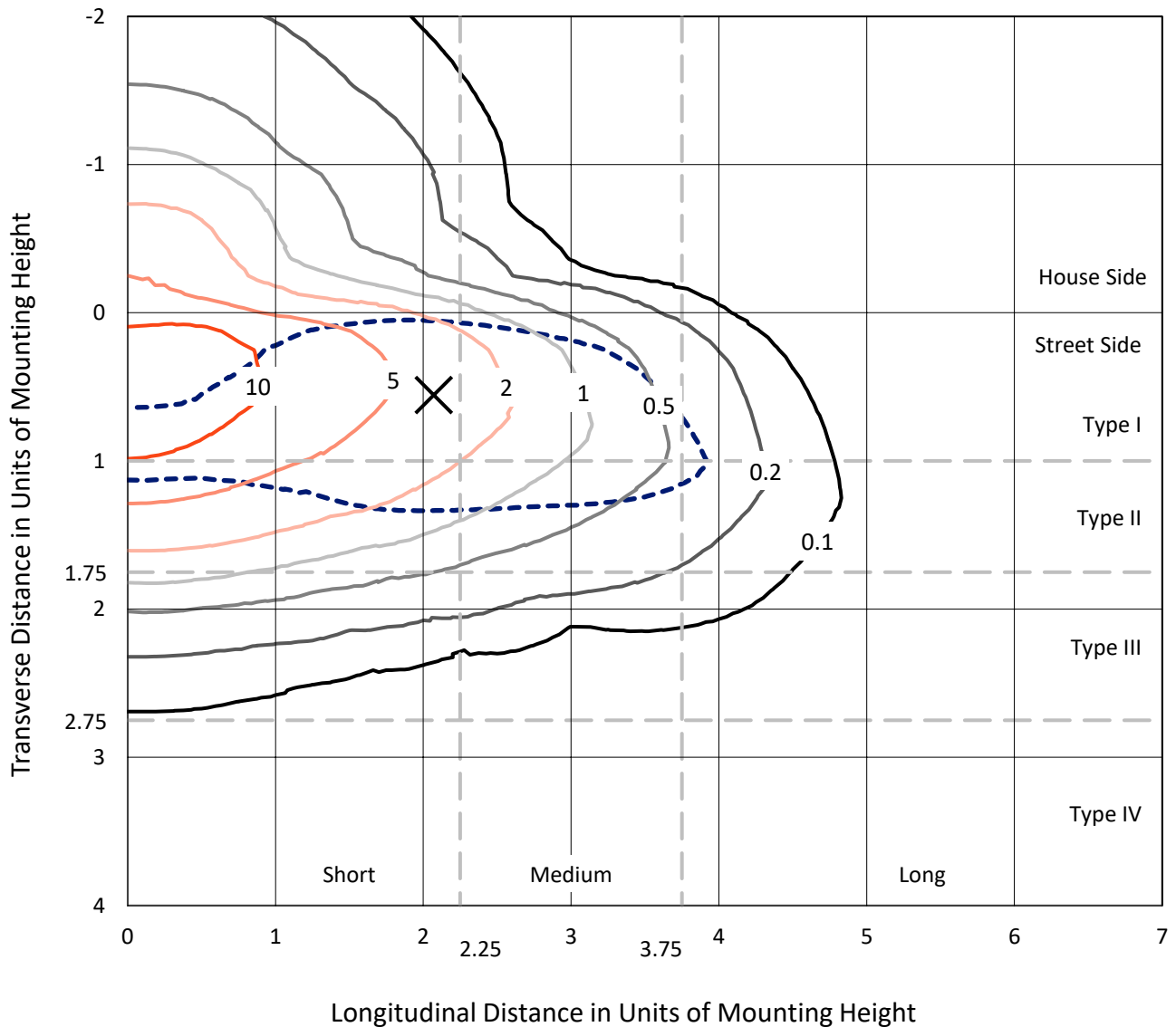
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

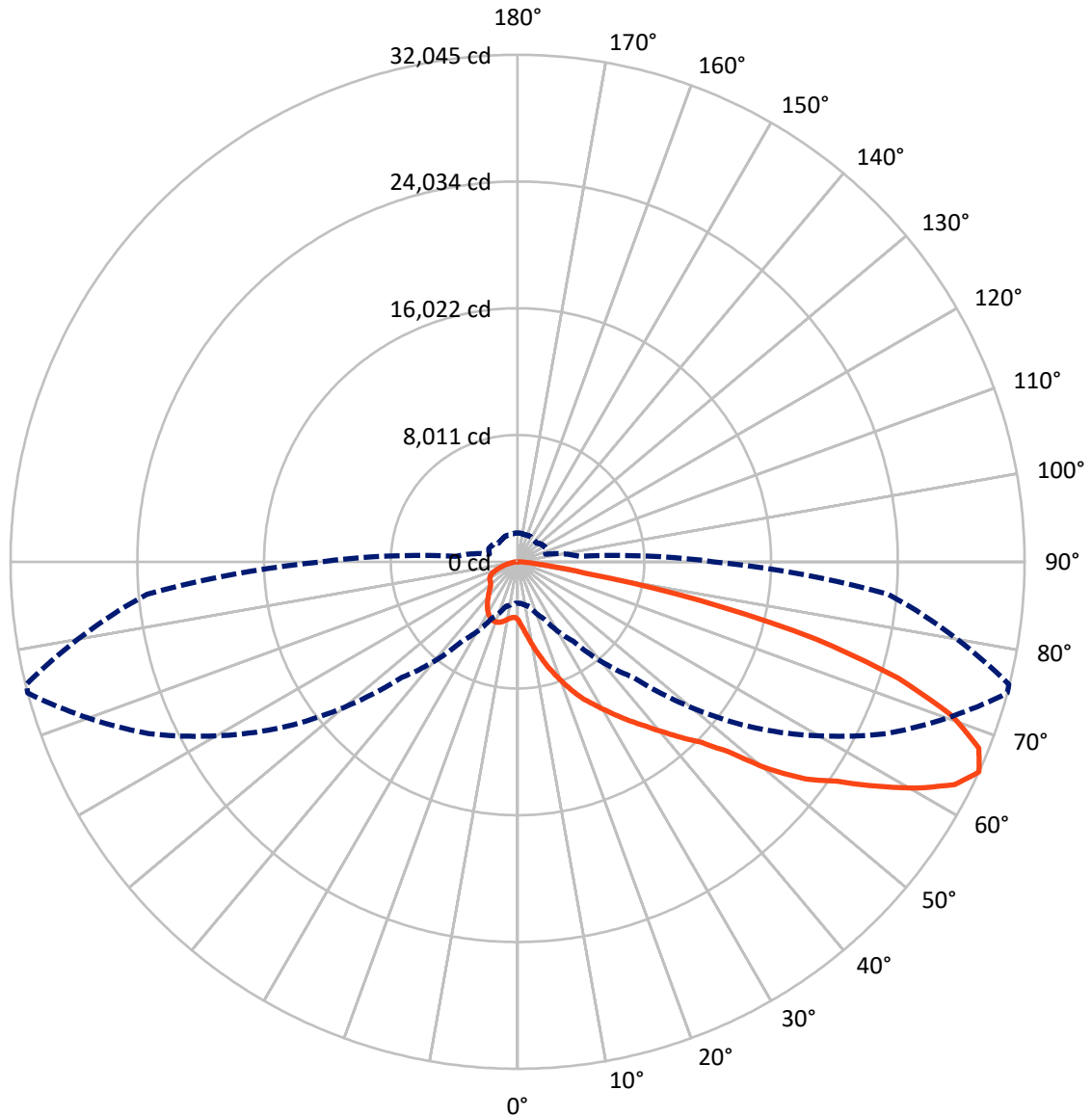
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6620.5	0.0	6620.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32761.0	0.0	32761.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	39381.5	0.0	39381.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	1.1
10°-20°	1741.3	4.4
20°-30°	3363.6	8.5
30°-40°	5463.5	13.9
40°-50°	7515.5	19.1
50°-60°	8873.2	22.5
60°-70°	7774.4	19.7
70°-80°	3711.6	9.4
80°-90°	493.9	1.3
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°	39381.5	100.0
0°-180°	39381.5	100.0

Coefficient of Utilization

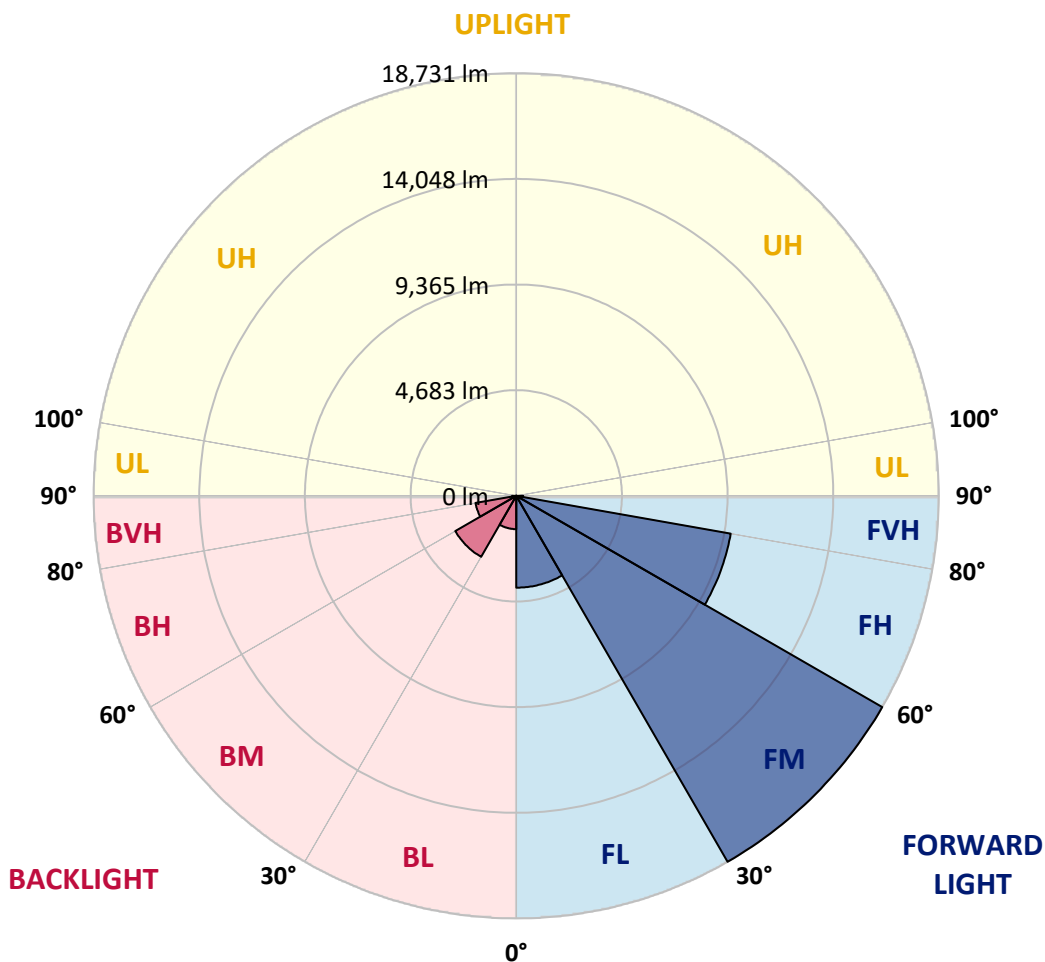


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4071.4	10.3			
FM (30°-60°)	18730.7	47.6			
FH (60°-80°)	9650.2	24.5			G4/12000
FVH (80°-90°)	308.6	0.8			G3/500
BL (0°-30°)	1478.0	3.8	B3/2500		
BM (30°-60°)	3121.5	7.9	B3/5000		
BH (60°-80°)	1835.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	185.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0
2.5°	4861.7	4829.6	4795.4	4701.4	4601.0	4487.8	4325.5	4169.6	3962.4	3956.0	3802.2
5°	6209.4	6188.1	6036.4	5948.9	5716.0	5406.3	5143.6	4735.6	4357.6	4312.6	4013.6
7.5°	7448.4	7365.1	7307.4	7149.3	6918.7	6521.4	6013.0	5461.9	4829.6	4769.8	4274.2
10°	8381.8	8373.2	8343.4	8206.6	8033.7	7638.5	7074.6	6284.2	5427.6	5310.2	4590.3
12.5°	9080.3	9086.8	9082.5	9080.3	8956.4	8621.1	8010.2	7177.1	6032.2	5948.9	4955.6
15°	9539.5	9603.6	9629.3	9736.1	9746.8	9522.5	8997.0	8040.0	6713.6	6589.7	5348.7
17.5°	9842.9	9874.9	9994.5	10176.1	10323.5	10282.9	9815.1	8838.9	7410.0	7202.7	5756.6
20°	10133.4	10188.9	10280.8	10528.6	10789.1	10908.8	10579.8	9657.0	8099.8	7967.5	6207.3
22.5°	10737.9	10816.9	10849.0	10975.0	11197.2	11408.6	11259.1	10440.9	8856.1	8676.6	6685.8
25°	11761.0	11844.4	11754.7	11724.7	11797.4	11902.0	11870.0	11180.0	9569.5	9313.1	7138.7
27.5°	13093.9	13104.6	12929.4	12762.8	12583.5	12530.1	12431.7	11835.8	10188.9	9975.4	7593.6
30°	14525.1	14473.8	14183.3	13882.1	13578.8	13279.8	12997.8	12468.1	10878.8	10633.2	8040.0
32.5°	15853.7	15825.9	15503.4	15035.6	14523.0	14241.0	13670.7	13106.7	11617.9	11380.8	8499.3
35°	16849.1	16889.7	16535.1	16024.6	15465.0	15215.0	14495.1	13777.4	12382.6	12124.2	8999.1
37.5°	17556.1	17534.8	17220.7	16778.6	16287.3	16069.4	15458.5	14510.1	13205.0	12957.2	9545.9
40°	17808.2	17795.4	17562.5	17240.0	16928.2	16851.2	16466.8	15300.5	14147.0	13856.5	10203.9
42.5°	17648.0	17675.7	17522.0	17434.4	17376.7	17432.2	17468.6	16336.4	15174.4	14907.4	10917.3
45°	17156.7	17141.8	17120.4	17263.5	17588.2	17953.4	18459.7	17314.8	16291.6	16078.0	11874.2
47.5°	16278.7	16385.5	16438.9	16834.1	17543.3	18408.4	19600.3	18626.3	17912.9	17727.0	13333.2
50°	15050.5	15136.0	15452.1	16154.9	17212.2	18579.3	20715.3	20770.8	20617.1	20268.9	14918.1
52.5°	13132.4	13264.8	13916.3	15204.4	16533.0	18508.8	21390.3	22610.0	22813.0	22552.3	16479.6
55°	10985.6	11171.5	11859.3	13548.9	15597.4	18124.3	21856.0	23675.9	24485.5	24244.1	17983.4
57.5°	8883.8	9080.3	9787.3	11423.6	13965.5	17274.1	22161.4	24863.5	26762.5	26448.4	19854.5
60°	6658.0	6863.1	7469.8	9155.0	11641.5	15612.3	21954.2	25893.1	29037.4	28902.8	21727.8
62.5°	4295.6	4522.0	5049.6	6444.4	8947.9	13341.7	20845.6	26461.3	31006.7	30844.4	23094.9
65°	2616.7	2642.3	2932.8	4000.8	6124.0	10329.9	18310.2	25707.3	32044.9	31995.8	23511.4
67.5°	1691.8	1732.3	1864.7	2396.6	3671.9	7175.0	14640.5	23218.7	31438.3	31421.2	22650.6
70°	1429.0	1441.8	1501.6	1617.0	2133.9	4351.1	10280.8	19252.2	29133.5	29133.5	20580.8
72.5°	1277.4	1294.5	1315.8	1352.1	1523.0	2465.0	6134.7	14986.5	25154.1	25320.7	17517.7
75°	1159.9	1155.6	1168.4	1174.8	1298.7	1610.6	3172.0	11084.0	19459.3	19126.1	12686.0
77.5°	993.2	999.7	993.2	1021.1	1147.0	1226.1	1610.6	7437.7	11793.1	11361.6	6367.5
80°	815.9	826.6	837.3	854.5	980.4	931.3	967.7	3389.9	4361.8	4269.9	1967.3
82.5°	613.0	628.0	645.0	685.7	771.1	615.2	610.9	1448.2	1574.3	1441.8	724.1
85°	247.8	292.7	442.2	482.7	484.9	337.5	375.9	604.5	642.9	628.0	284.1
87.5°	57.7	68.4	143.1	215.7	198.6	126.1	138.8	196.5	224.3	207.2	96.1
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°	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0	3659.0
2.5°	3731.7	3656.9	3528.8	3430.5	3360.0	3298.1	3259.6	3236.1	3227.6	3225.4	3227.6
5°	3857.7	3725.3	3522.4	3394.2	3323.7	3283.1	3259.6	3257.4	3259.6	3261.7	3255.3
7.5°	4030.7	3840.6	3575.8	3456.1	3402.7	3372.8	3362.1	3357.9	3360.0	3357.9	3357.9
10°	4261.4	4000.8	3680.4	3556.5	3511.7	3477.5	3460.4	3449.7	3441.2	3432.6	3428.3
12.5°	4515.6	4178.1	3793.6	3674.0	3609.9	3556.5	3518.1	3490.3	3471.1	3451.9	3447.6
15°	4799.7	4366.1	3919.6	3753.0	3661.2	3582.2	3515.9	3471.1	3436.9	3409.2	3407.0
17.5°	5071.0	4543.3	4005.1	3789.4	3654.7	3543.7	3456.1	3394.2	3351.5	3315.1	3310.8
20°	5361.5	4712.1	4043.5	3765.8	3590.6	3456.1	3340.8	3266.0	3216.9	3176.3	3169.9
22.5°	5654.1	4855.3	4039.2	3691.1	3479.6	3321.5	3199.8	3120.8	3063.1	3022.5	3007.6
25°	5933.9	4970.6	3985.8	3571.5	3325.8	3161.3	3037.4	2964.9	2913.6	2864.4	2864.4
27.5°	6186.0	5038.9	3885.4	3426.2	3167.7	2994.7	2896.5	2830.2	2783.3	2751.2	2732.0
30°	6433.7	5071.0	3748.8	3242.5	3001.1	2853.8	2774.7	2736.3	2693.6	2657.2	2652.9
32.5°	6655.9	5064.6	3577.9	3063.1	2843.1	2738.4	2706.3	2676.5	2631.6	2580.4	2567.5
35°	6871.6	5021.9	3374.9	2866.5	2710.6	2670.1	2678.6	2635.9	2554.7	2490.6	2479.9
37.5°	7106.6	4944.9	3152.8	2706.3	2599.5	2638.0	2659.4	2565.4	2432.9	2332.6	2309.0
40°	7377.9	4857.4	2922.1	2546.1	2512.0	2608.1	2608.1	2435.1	2253.5	2191.6	2174.5
42.5°	7696.2	4784.7	2729.9	2411.6	2439.3	2535.4	2524.8	2262.0	2187.3	2155.2	2146.7
45°	8200.3	4759.1	2531.2	2294.1	2379.5	2450.0	2362.5	2202.2	2159.5	2133.9	2125.4
47.5°	8997.0	4789.0	2356.1	2206.5	2311.2	2364.6	2180.9	2161.7	2131.8	2095.4	2091.1
50°	9736.1	4761.2	2232.2	2157.4	2251.4	2262.0	2106.1	2112.5	2095.4	2054.9	2046.3
52.5°	10340.6	4673.7	2153.1	2131.8	2200.1	2082.7	2035.6	2059.1	2052.7	2001.5	1992.9
55°	11004.9	4620.3	2114.7	2131.8	2165.9	1926.7	1969.5	2003.6	1995.1	1958.8	1956.6
57.5°	11810.2	4631.0	2086.9	2138.2	2131.8	1847.7	1903.2	1943.8	1941.7	1931.0	1931.0
60°	12634.7	4635.2	2044.2	2136.1	2091.1	1785.7	1834.9	1892.5	1896.8	1903.2	1903.2
62.5°	12908.1	4449.4	1960.9	2097.6	2001.5	1725.9	1770.8	1849.8	1845.6	1862.6	1864.7
65°	12397.6	3934.6	1837.0	2010.0	1886.1	1683.2	1721.6	1794.3	1770.8	1815.6	1824.2
67.5°	11284.7	3255.3	1644.7	1852.0	1757.9	1638.4	1689.6	1717.4	1674.7	1762.2	1764.3
70°	9753.2	2541.9	1401.3	1627.7	1612.7	1591.3	1664.0	1621.3	1561.5	1668.2	1646.8
72.5°	8155.4	1941.7	1119.3	1330.7	1418.3	1520.9	1619.1	1497.4	1414.1	1446.1	1407.7
75°	6126.2	1435.4	899.3	1042.4	1181.3	1420.4	1578.6	1347.9	1219.7	1189.8	1181.3
77.5°	3122.9	937.7	672.9	779.7	886.5	1283.8	1523.0	1172.7	1010.4	963.4	942.0
80°	1115.0	583.1	474.2	538.3	598.1	1104.3	1330.7	969.8	783.9	775.4	783.9
82.5°	517.0	375.9	318.2	352.5	354.6	737.0	1014.6	724.1	595.9	905.7	764.7
85°	222.1	188.0	179.5	175.2	162.3	328.9	570.3	388.8	606.6	271.3	249.9
87.5°	66.2	74.8	66.2	49.1	36.3	36.3	57.7	21.4	15.0	10.7	10.7
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)