

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: P531205

Luminaire Tested: **GALN-SA6C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23059 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

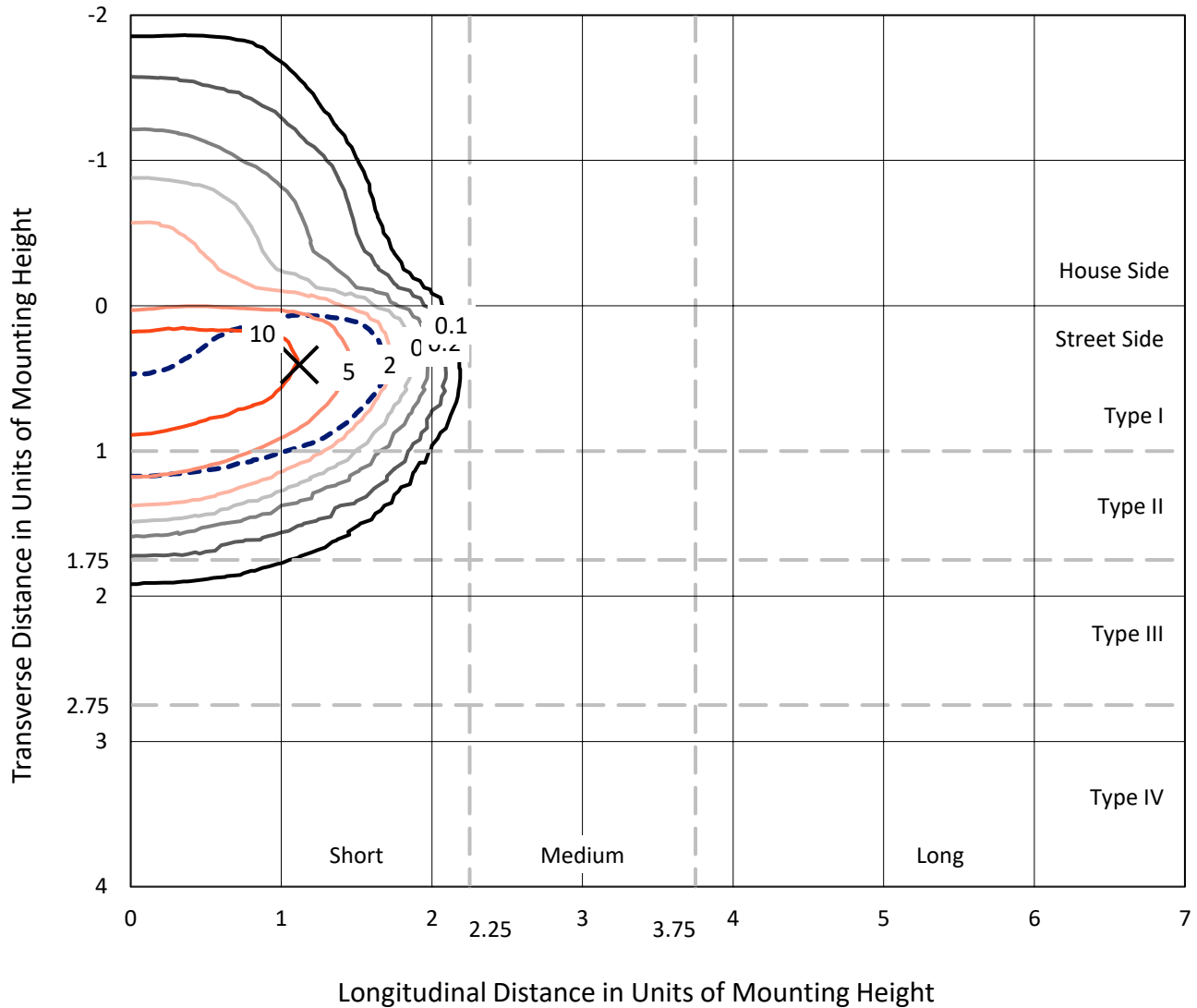
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

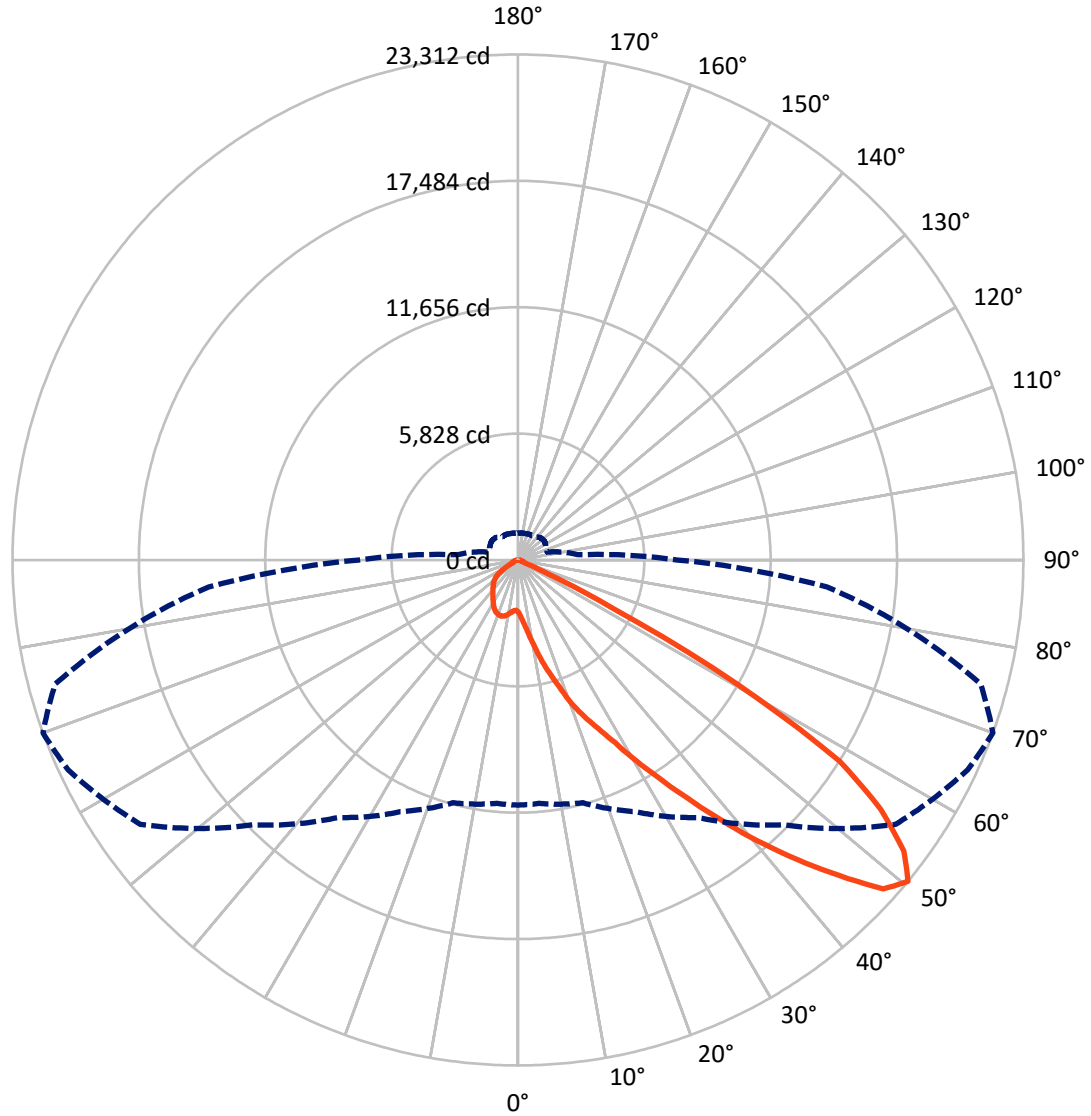
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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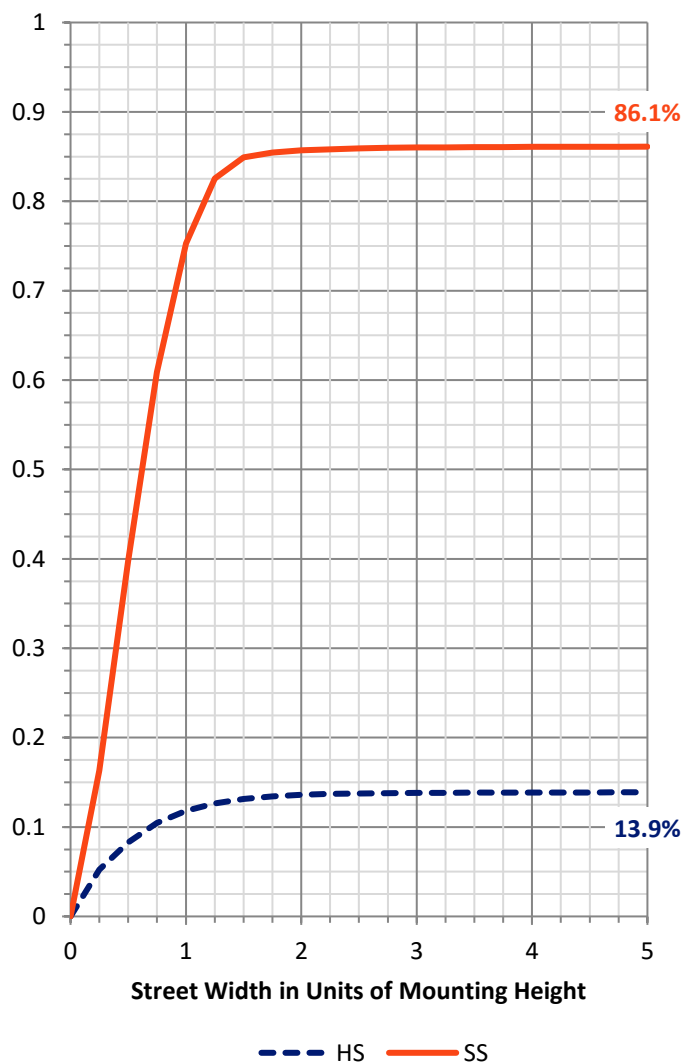
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3220.3	0.0	3220.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19838.7	0.0	19838.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	23059.0	0.0	23059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	1.3
10°-20°	1343.5	5.8
20°-30°	2818.4	12.2
30°-40°	4858.0	21.1
40°-50°	7099.9	30.8
50°-60°	5529.7	24.0
60°-70°	936.9	4.1
70°-80°	128.7	0.6
80°-90°	33.3	0.1
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°	23059.0	100.0
0°-180°	23059.0	100.0

Coefficient of Utilization



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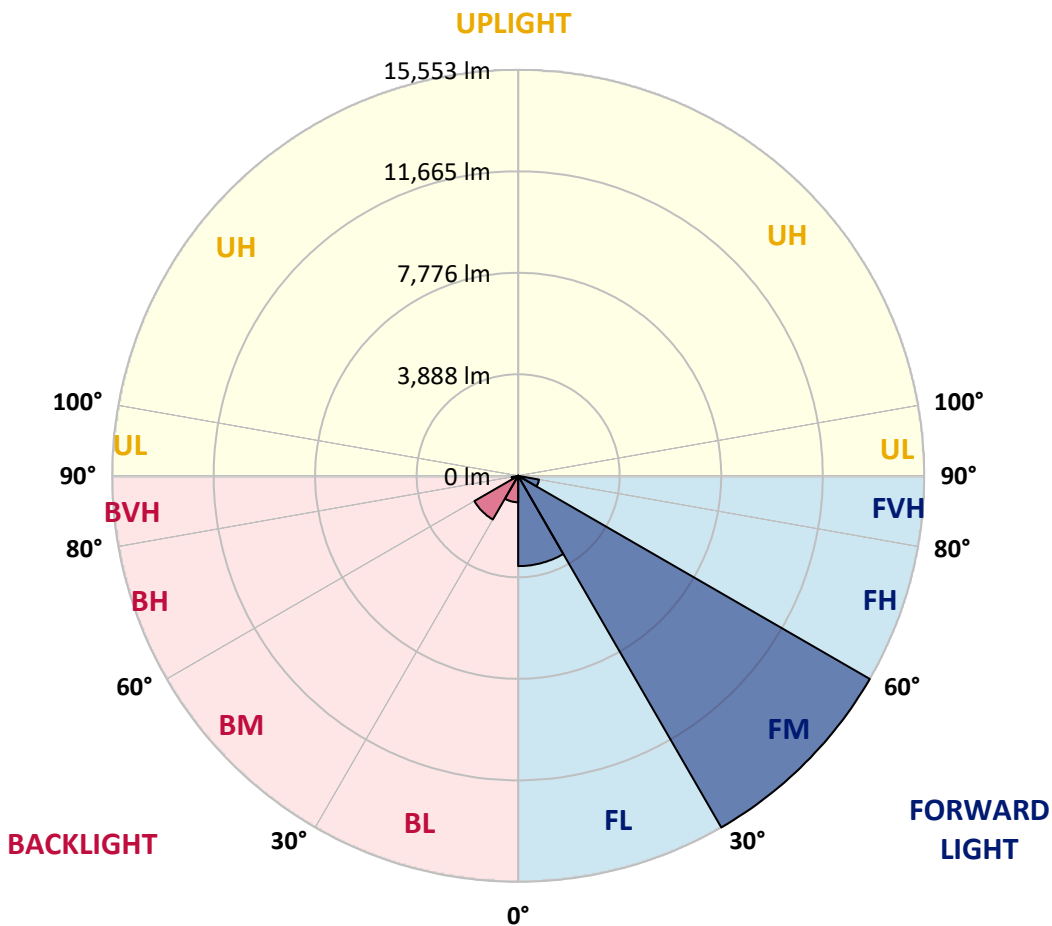
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3459.1	15.0			
FM (30°-60°)	15552.9	67.4			
FH (60°-80°)	811.2	3.5			G1/1800
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	1013.4	4.4	B3/2500		
BM (30°-60°)	1934.7	8.4	B2/2500		
BH (60°-80°)	254.4	1.1	B1/500		G1/500
BVH (80°-90°)	17.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5
2.5°	3127.7	3105.0	3055.7	2964.7	2926.8	2835.8	2782.7	2680.4	2615.9	2543.9	2464.3
5°	4405.4	4287.9	4215.8	4113.5	3814.0	3628.2	3321.1	3059.5	2938.2	2805.5	2623.5
7.5°	5724.7	5648.9	5550.3	5330.4	5125.7	4739.0	4212.0	3635.8	3389.3	3161.9	2801.7
10°	6816.6	6604.3	6592.9	6429.9	6206.2	5743.7	5110.5	4394.0	3954.2	3620.6	3055.7
12.5°	7578.6	7385.3	7472.5	7453.5	7245.0	6820.4	6088.7	5140.9	4682.1	4162.7	3317.3
15°	8272.4	8192.8	8166.3	8143.5	8060.1	7745.4	7089.6	6050.8	5387.3	4761.8	3613.0
17.5°	8951.0	8746.3	8844.9	8863.8	8856.3	8571.9	7957.7	6915.2	6134.2	5394.9	3923.9
20°	9553.8	9572.8	9440.1	9413.6	9390.8	9379.4	8780.4	7772.0	7051.6	6058.3	4329.6
22.5°	10327.2	10194.5	10312.1	10236.2	10088.4	9997.4	9538.7	8530.2	7847.8	6858.3	4742.8
25°	11240.9	11347.1	11070.3	11040.0	10877.0	10562.3	10149.1	9379.4	8613.6	7601.4	5190.2
27.5°	12366.9	12181.1	12109.1	11942.3	11646.6	11513.9	11028.6	10255.2	9538.7	8382.4	5622.4
30°	13333.7	13284.4	12924.2	12727.1	12469.3	12465.5	11786.9	11441.9	10744.3	9606.9	6217.6
32.5°	14122.2	13906.1	13773.4	13637.0	13428.4	13485.3	12912.8	12730.9	12029.5	10744.3	6918.9
35°	14649.2	14493.8	14414.2	14205.6	14145.0	14399.0	14160.1	14084.3	13508.1	12344.2	7741.6
37.5°	14816.0	14865.3	14850.1	14588.6	14717.5	15403.7	15710.7	15513.6	15210.3	14031.2	8632.6
40°	14963.9	14998.0	14922.2	15229.3	15597.0	16378.0	17488.8	17162.8	17049.0	15741.1	9872.3
42.5°	15047.3	15020.7	15020.7	15551.5	16108.8	17678.4	19206.2	18990.1	18902.9	17560.9	11305.4
45°	14687.1	14429.3	14706.1	15426.4	16548.6	18319.1	20578.7	20878.2	20753.0	19725.6	12981.1
47.5°	13341.2	13500.5	13655.9	14618.9	16014.0	18122.0	21420.3	22440.1	22671.4	21545.4	14080.5
50°	11305.4	11271.2	11593.5	12806.7	14501.4	17272.7	21257.3	22891.3	23312.1	22091.3	14311.8
52.5°	8223.1	8473.3	8822.1	10027.7	12037.1	15073.8	19153.2	21727.4	22288.5	21420.3	14160.1
55°	4788.3	4511.5	5296.3	6316.1	8211.7	11369.8	16192.2	19259.3	20298.1	20199.5	13394.3
57.5°	1918.3	1857.7	2126.9	2866.1	4284.1	7047.8	11775.5	15824.5	17488.8	18501.1	11771.7
60°	841.6	822.7	966.8	1167.7	1751.5	3249.1	6441.3	9842.0	11578.3	12928.0	8101.8
62.5°	606.6	599.0	671.0	743.1	925.1	1414.1	2706.9	3965.6	4943.7	5971.1	3628.2
65°	489.1	508.0	557.3	595.2	682.4	784.8	955.4	1103.2	1353.5	1402.7	799.9
67.5°	398.1	413.2	458.7	500.4	515.6	424.6	439.8	386.7	386.7	345.0	276.8
70°	291.9	295.7	348.8	398.1	318.5	170.6	299.5	299.5	269.2	257.8	235.1
72.5°	216.1	219.9	261.6	246.4	125.1	106.2	219.9	242.6	219.9	208.5	189.6
75°	159.2	163.0	136.5	56.9	53.1	68.2	128.9	166.8	159.2	155.4	144.1
77.5°	30.3	22.7	19.0	26.5	37.9	56.9	83.4	102.4	106.2	113.7	106.2
80°	3.8	3.8	11.4	22.7	41.7	60.7	87.2	98.6	102.4	106.2	98.6
82.5°	0.0	3.8	11.4	22.7	41.7	56.9	75.8	87.2	94.8	98.6	94.8
85°	0.0	3.8	7.6	19.0	34.1	41.7	37.9	26.5	22.7	26.5	19.0
87.5°	0.0	0.0	3.8	3.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6
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°	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5	2388.5
2.5°	2418.8	2403.6	2350.5	2293.7	2244.4	2267.1	2244.4	2225.4	2233.0	2225.4	2217.9
5°	2551.5	2483.2	2369.5	2320.2	2278.5	2274.7	2263.3	2259.6	2263.3	2263.3	2229.2
7.5°	2676.6	2566.6	2445.3	2392.2	2343.0	2346.8	2320.2	2320.2	2316.4	2297.5	2289.9
10°	2866.1	2718.3	2562.9	2468.1	2407.4	2396.0	2369.5	2343.0	2343.0	2343.0	2305.1
12.5°	3074.7	2888.9	2676.6	2566.6	2494.6	2437.7	2396.0	2388.5	2346.8	2339.2	2320.2
15°	3256.6	3021.6	2752.4	2600.8	2509.8	2434.0	2369.5	2327.8	2308.8	2297.5	2282.3
17.5°	3434.8	3135.3	2794.1	2600.8	2502.2	2415.0	2346.8	2308.8	2263.3	2270.9	2240.6
20°	3673.7	3256.6	2805.5	2551.5	2430.2	2346.8	2255.8	2236.8	2210.3	2187.5	2195.1
22.5°	3904.9	3343.8	2771.4	2490.8	2316.4	2217.9	2172.4	2149.6	2138.2	2119.3	2092.7
25°	4113.5	3438.6	2718.3	2380.9	2195.1	2123.1	2081.4	2077.6	2051.0	2051.0	2001.8
27.5°	4325.8	3472.7	2627.3	2252.0	2089.0	2047.2	2028.3	2020.7	2009.3	1982.8	1948.7
30°	4568.4	3484.1	2494.6	2119.3	1994.2	1948.7	1975.2	1994.2	1944.9	1895.6	1910.8
32.5°	4769.3	3457.6	2335.4	1994.2	1925.9	1903.2	1956.3	1975.2	1918.3	1865.3	1838.7
35°	5012.0	3393.1	2179.9	1895.6	1857.7	1903.2	1948.7	1948.7	1834.9	1770.5	1755.3
37.5°	5379.7	3321.1	2035.9	1812.2	1785.7	1880.4	1941.1	1899.4	1721.2	1641.6	1622.6
40°	5774.0	3275.6	1895.6	1728.8	1747.7	1842.5	1876.6	1747.7	1565.8	1516.5	1501.3
42.5°	6346.5	3184.6	1770.5	1656.8	1713.6	1789.4	1789.4	1558.2	1489.9	1463.4	1459.6
45°	7059.2	3120.2	1660.5	1596.1	1664.3	1683.3	1622.6	1459.6	1410.3	1402.7	1406.5
47.5°	7408.0	2995.1	1546.8	1524.1	1573.3	1577.1	1417.9	1380.0	1338.3	1326.9	1319.3
50°	7354.9	2771.4	1399.0	1429.3	1497.5	1459.6	1292.8	1300.4	1262.5	1258.7	1239.7
52.5°	6983.4	2418.8	1251.1	1323.1	1399.0	1289.0	1190.4	1182.9	1182.9	1133.6	1114.6
55°	6191.0	1948.7	1072.9	1163.9	1254.9	1084.3	1057.7	1050.2	1031.2	985.7	974.3
57.5°	4902.0	1429.3	807.5	906.1	1065.3	921.3	917.5	883.4	834.1	799.9	799.9
60°	2915.4	822.7	508.0	553.5	705.2	746.9	830.3	815.1	731.7	678.6	663.5
62.5°	1330.7	424.6	322.3	329.8	379.1	485.3	652.1	754.4	636.9	545.9	538.4
65°	447.4	314.7	265.4	254.0	261.6	291.9	390.5	534.6	508.0	420.8	405.7
67.5°	273.0	280.5	250.2	231.3	231.3	227.5	223.7	242.6	299.5	291.9	295.7
70°	235.1	257.8	231.3	208.5	200.9	189.6	159.2	132.7	113.7	132.7	140.3
72.5°	189.6	204.7	197.1	178.2	159.2	144.1	113.7	87.2	64.5	56.9	56.9
75°	140.3	151.6	159.2	136.5	121.3	102.4	83.4	56.9	34.1	22.7	22.7
77.5°	102.4	113.7	117.5	106.2	91.0	72.0	53.1	37.9	19.0	7.6	7.6
80°	87.2	102.4	113.7	106.2	94.8	68.2	49.3	26.5	15.2	3.8	3.8
82.5°	83.4	102.4	113.7	102.4	91.0	64.5	49.3	30.3	11.4	3.8	3.8
85°	19.0	26.5	34.1	41.7	49.3	49.3	37.9	22.7	11.4	3.8	3.8
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	3.8	3.8	0.0
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)