

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: P652131

Luminaire Tested: **GALN-SA9A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652131
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-SA9A-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 23059.4 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

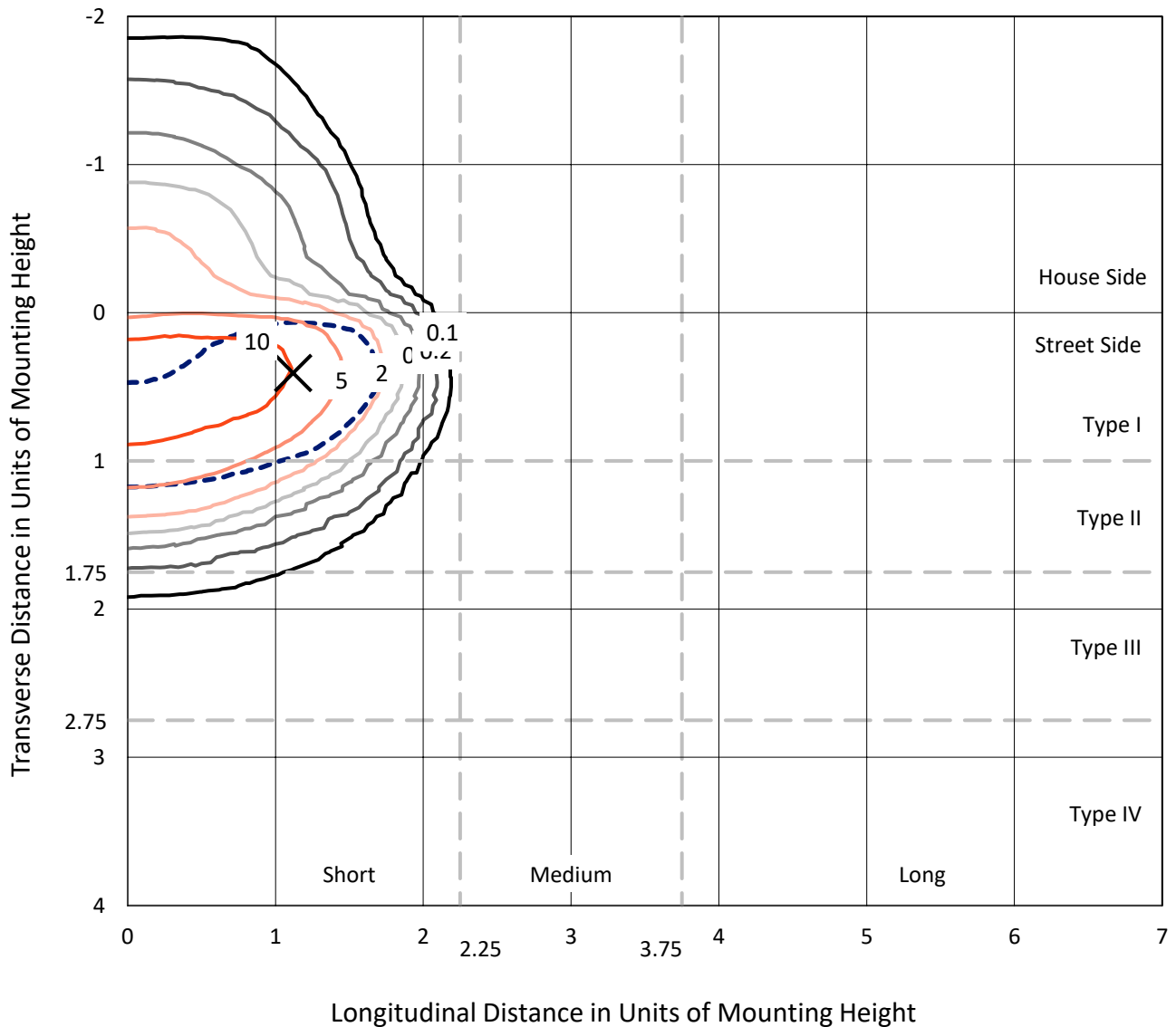
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

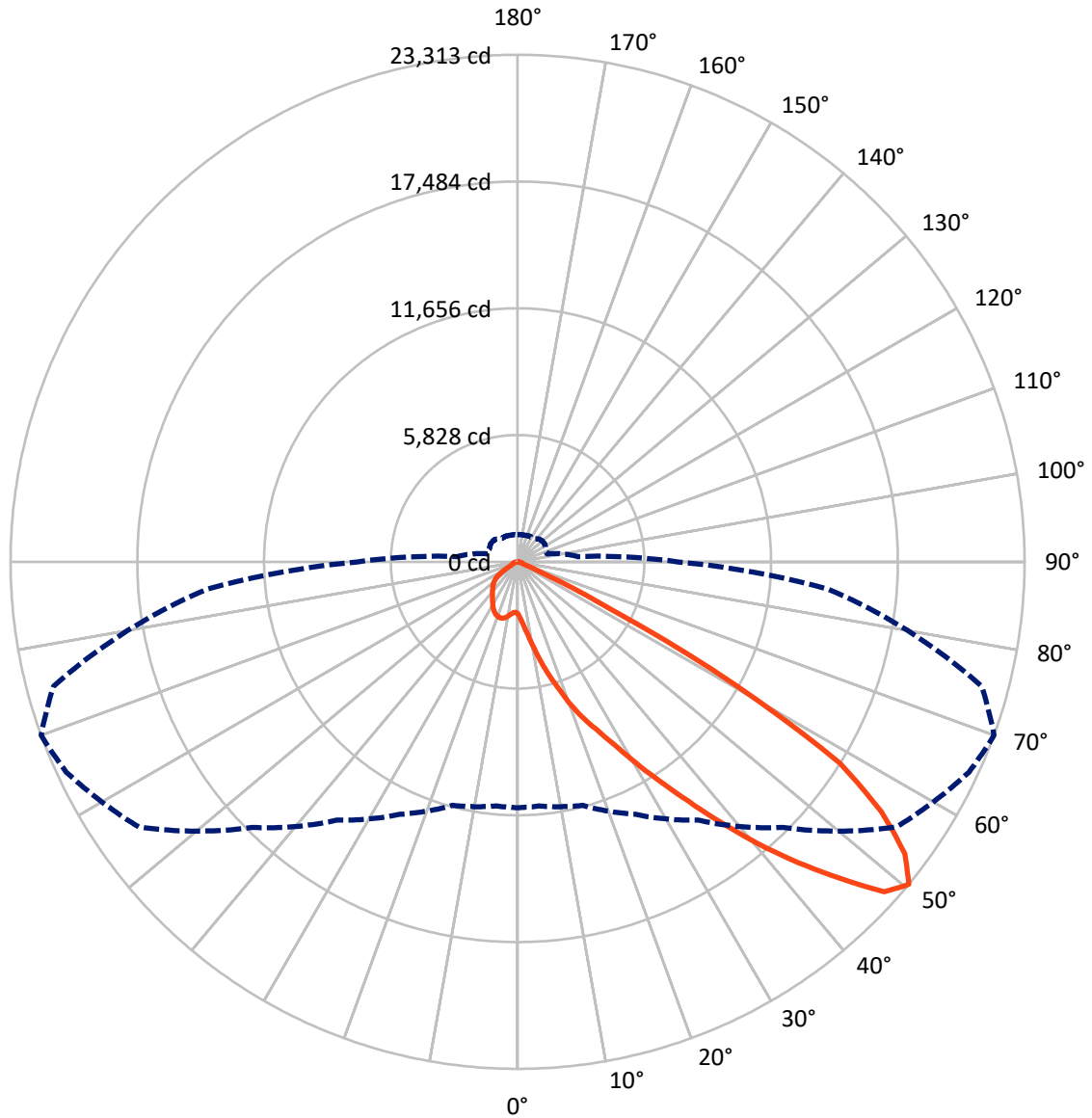
✕ Max cd
 - - - 1/2 Max cd



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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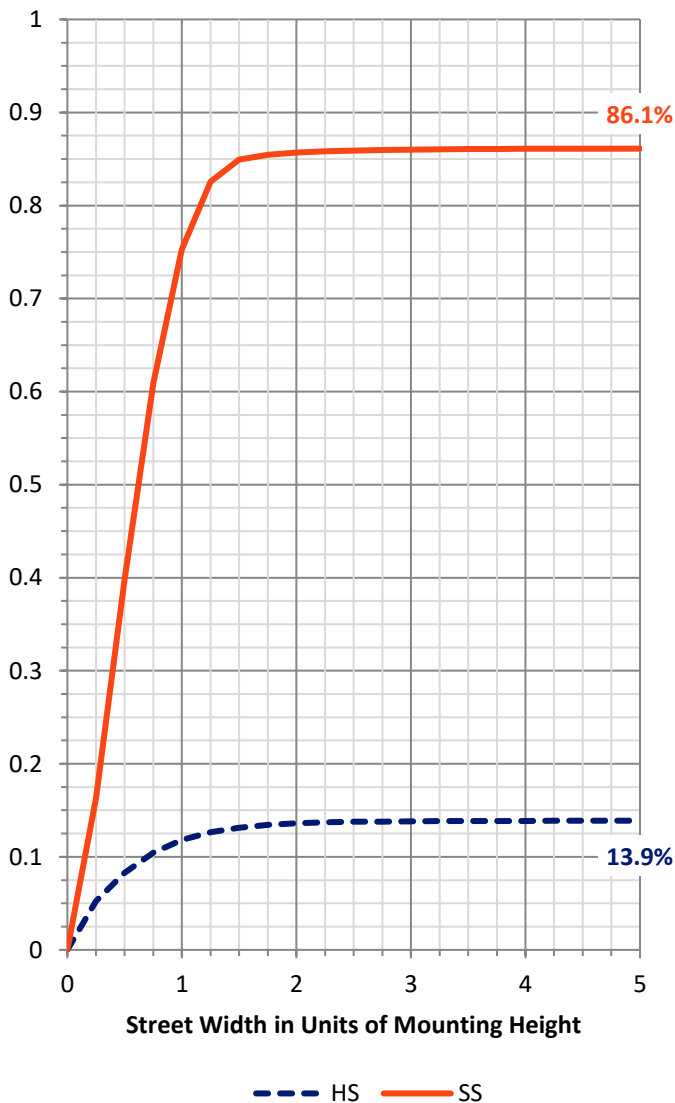
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3220.4	0.0	3220.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19839.0	0.0	19839.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	23059.4	0.0	23059.4
	% 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°	2818.5	12.2
30°-40°	4858.1	21.1
40°-50°	7100.0	30.8
50°-60°	5529.8	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°	23059.4	100.0
0°-180°	23059.4	100.0

Coefficient of Utilization



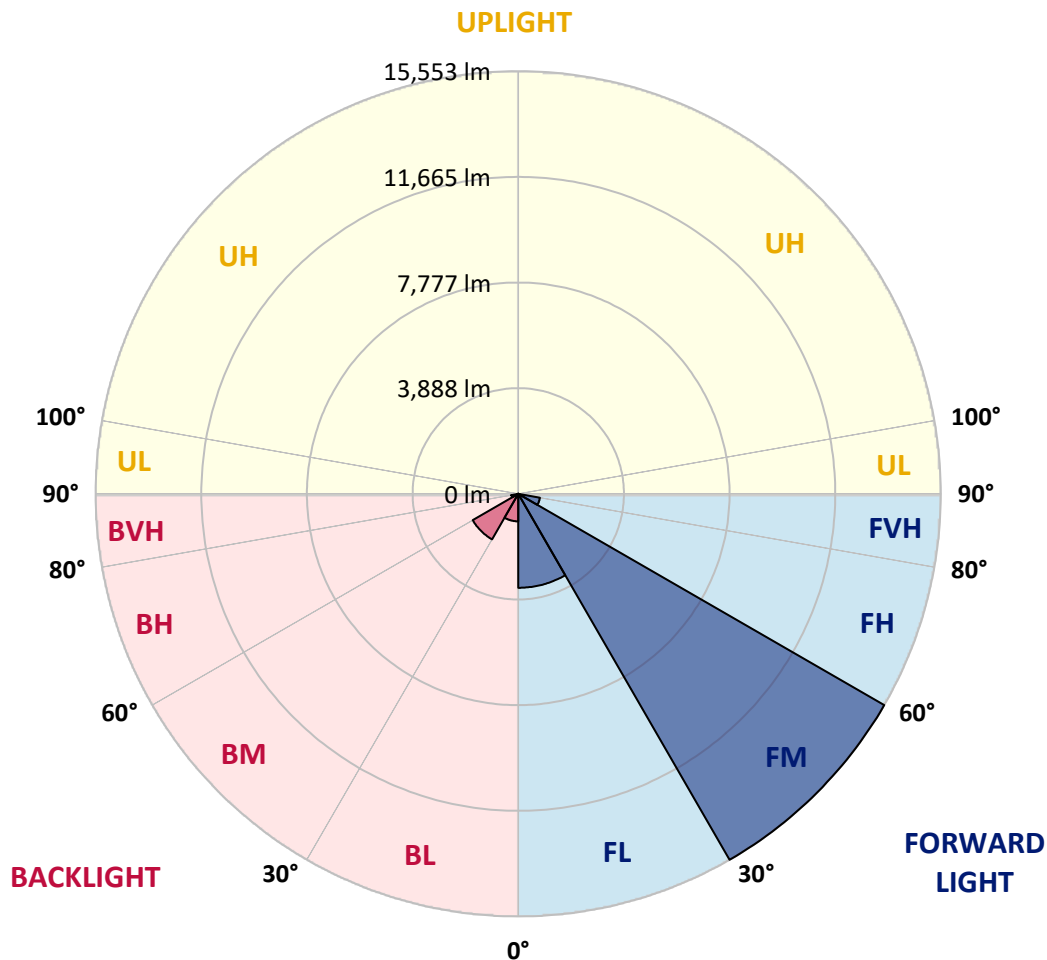
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3459.2	15.0			
FM (30°-60°)	15553.2	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°	3127.8	3105.1	3055.8	2964.8	2926.8	2835.9	2782.8	2680.4	2616.0	2543.9	2464.3
5°	4405.4	4287.9	4215.8	4113.5	3814.0	3628.2	3321.1	3059.6	2938.2	2805.6	2623.6
7.5°	5724.8	5649.0	5550.4	5330.5	5125.8	4739.1	4212.1	3635.8	3389.4	3161.9	2801.7
10°	6816.7	6604.4	6593.0	6429.9	6206.3	5743.8	5110.6	4394.1	3954.3	3620.7	3055.8
12.5°	7578.8	7385.4	7472.6	7453.6	7245.1	6820.5	6088.8	5140.9	4682.2	4162.8	3317.3
15°	8272.6	8192.9	8166.4	8143.7	8060.2	7745.5	7089.6	6050.8	5387.4	4761.8	3613.1
17.5°	8951.2	8746.5	8845.0	8864.0	8856.4	8572.1	7957.9	6915.3	6134.3	5394.9	3923.9
20°	9554.0	9572.9	9440.2	9413.7	9390.9	9379.6	8780.5	7772.1	7051.8	6058.5	4329.6
22.5°	10327.4	10194.7	10312.3	10236.4	10088.6	9997.6	9538.8	8530.3	7848.0	6858.4	4742.9
25°	11241.1	11347.3	11070.5	11040.1	10877.2	10562.5	10149.2	9379.6	8613.8	7601.5	5190.2
27.5°	12367.1	12181.3	12109.3	11942.5	11646.8	11514.0	11028.8	10255.4	9538.8	8382.5	5622.4
30°	13333.9	13284.6	12924.4	12727.3	12469.5	12465.7	11787.0	11442.1	10744.4	9607.1	6217.7
32.5°	14122.5	13906.4	13773.6	13637.2	13428.7	13485.5	12913.1	12731.1	12029.7	10744.4	6919.1
35°	14649.5	14494.0	14414.4	14205.8	14145.2	14399.3	14160.3	14084.6	13508.3	12344.4	7741.7
37.5°	14816.2	14865.5	14850.4	14588.8	14717.7	15403.9	15711.0	15513.8	15210.6	14031.5	8632.7
40°	14964.2	14998.2	14922.5	15229.5	15597.3	16378.3	17489.1	17163.0	17049.3	15741.3	9872.4
42.5°	15047.5	15021.0	15021.0	15551.8	16109.1	17678.7	19206.6	18990.5	18903.2	17561.2	11305.6
45°	14687.4	14429.5	14706.3	15426.6	16548.9	18319.4	20579.0	20878.5	20753.4	19726.0	12981.3
47.5°	13341.5	13500.7	13656.2	14619.1	16014.3	18122.3	21420.7	22440.5	22671.8	21545.7	14080.8
50°	11305.6	11271.4	11593.7	12806.9	14501.6	17273.0	21257.6	22891.7	23312.5	22091.7	14312.1
52.5°	8223.3	8473.5	8822.3	10027.9	12037.2	15074.1	19153.4	21727.7	22288.9	21420.7	14160.3
55°	4788.4	4511.6	5296.4	6316.2	8211.9	11370.0	16192.5	19259.7	20298.5	20199.9	13394.5
57.5°	1918.4	1857.7	2126.9	2866.2	4284.1	7048.0	11775.7	15824.8	17489.1	18501.4	11771.9
60°	841.7	822.7	966.8	1167.7	1751.6	3249.1	6441.4	9842.1	11578.6	12928.2	8101.9
62.5°	606.6	599.0	671.0	743.1	925.1	1414.1	2706.9	3965.7	4943.8	5971.3	3628.2
65°	489.0	508.0	557.3	595.3	682.4	784.8	955.4	1103.2	1353.5	1402.8	800.0
67.5°	398.0	413.3	458.8	500.5	515.6	424.6	439.8	386.7	386.7	345.0	276.8
70°	291.9	295.7	348.8	398.0	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	106.1	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	166.9	159.2	155.4	144.1
77.5°	30.4	22.7	18.9	26.6	37.9	56.9	83.4	102.3	106.1	113.7	106.1
80°	3.8	3.8	11.4	22.7	41.7	60.6	87.2	98.6	102.3	106.1	98.6
82.5°	0.0	3.8	11.4	22.7	41.7	56.9	75.9	87.2	94.8	98.6	94.8
85°	0.0	3.8	7.6	18.9	34.1	41.7	37.9	26.6	22.7	26.6	18.9
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	2403.7	2350.6	2293.7	2244.5	2267.2	2244.5	2225.5	2233.0	2225.5	2217.9
5°	2551.5	2483.3	2369.5	2320.2	2278.5	2274.7	2263.4	2259.6	2263.4	2263.4	2229.2
7.5°	2676.7	2566.6	2445.4	2392.3	2343.0	2346.8	2320.2	2320.2	2316.5	2297.5	2290.0
10°	2866.2	2718.4	2562.9	2468.1	2407.4	2396.1	2369.5	2343.0	2343.0	2343.0	2305.1
12.5°	3074.7	2888.9	2676.7	2566.6	2494.7	2437.8	2396.1	2388.5	2346.8	2339.2	2320.2
15°	3256.7	3021.6	2752.4	2600.8	2509.8	2434.0	2369.5	2327.8	2308.9	2297.5	2282.3
17.5°	3434.9	3135.4	2794.1	2600.8	2502.2	2415.0	2346.8	2308.9	2263.4	2271.0	2240.7
20°	3673.7	3256.7	2805.6	2551.5	2430.2	2346.8	2255.8	2236.8	2210.3	2187.5	2195.2
22.5°	3905.0	3343.9	2771.4	2490.9	2316.5	2217.9	2172.4	2149.7	2138.2	2119.3	2092.7
25°	4113.5	3438.7	2718.4	2381.0	2195.2	2123.1	2081.4	2077.6	2051.1	2051.1	2001.7
27.5°	4325.9	3472.8	2627.4	2252.0	2089.0	2047.2	2028.3	2020.8	2009.4	1982.8	1948.7
30°	4568.5	3484.2	2494.7	2119.3	1994.2	1948.7	1975.3	1994.2	1944.9	1895.6	1910.8
32.5°	4769.4	3457.6	2335.5	1994.2	1926.0	1903.2	1956.3	1975.3	1918.4	1865.3	1838.8
35°	5012.0	3393.2	2180.0	1895.6	1857.7	1903.2	1948.7	1948.7	1835.0	1770.6	1755.3
37.5°	5379.8	3321.1	2035.9	1812.2	1785.7	1880.5	1941.1	1899.4	1721.3	1641.6	1622.6
40°	5774.1	3275.7	1895.6	1728.8	1747.8	1842.5	1876.7	1747.8	1565.8	1516.5	1501.4
42.5°	6346.6	3184.7	1770.6	1656.8	1713.6	1789.5	1789.5	1558.2	1490.0	1463.4	1459.6
45°	7059.4	3120.2	1660.6	1596.1	1664.3	1683.3	1622.6	1459.6	1410.4	1402.8	1406.6
47.5°	7408.1	2995.1	1546.9	1524.1	1573.3	1577.1	1417.9	1380.0	1338.3	1326.9	1319.4
50°	7355.0	2771.4	1399.0	1429.3	1497.6	1459.6	1292.8	1300.4	1262.5	1258.7	1239.7
52.5°	6983.5	2418.8	1251.2	1323.1	1399.0	1289.0	1190.4	1182.9	1182.9	1133.6	1114.7
55°	6191.1	1948.7	1072.9	1163.9	1254.9	1084.3	1057.7	1050.2	1031.2	985.7	974.4
57.5°	4902.1	1429.3	807.5	906.1	1065.4	921.3	917.4	883.4	834.1	800.0	800.0
60°	2915.5	822.7	508.0	553.5	705.2	746.9	830.3	815.1	731.8	678.6	663.5
62.5°	1330.7	424.6	322.3	329.8	379.1	485.3	652.1	754.5	637.0	546.0	538.3
65°	447.3	314.7	265.4	254.0	261.6	291.9	390.5	534.5	508.0	420.8	405.7
67.5°	273.0	280.6	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	64.4	56.9	56.9
75°	140.3	151.6	159.2	136.5	121.4	102.3	83.4	56.9	34.1	22.7	22.7
77.5°	102.3	113.7	117.5	106.1	91.0	72.1	53.1	37.9	18.9	7.6	7.6
80°	87.2	102.3	113.7	106.1	94.8	68.2	49.3	26.6	15.1	3.8	3.8
82.5°	83.4	102.3	113.7	102.3	91.0	64.4	49.3	30.4	11.4	3.8	3.8
85°	18.9	26.6	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)