

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: P651523

Luminaire Tested: **GALN-SA7D-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26731.2 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

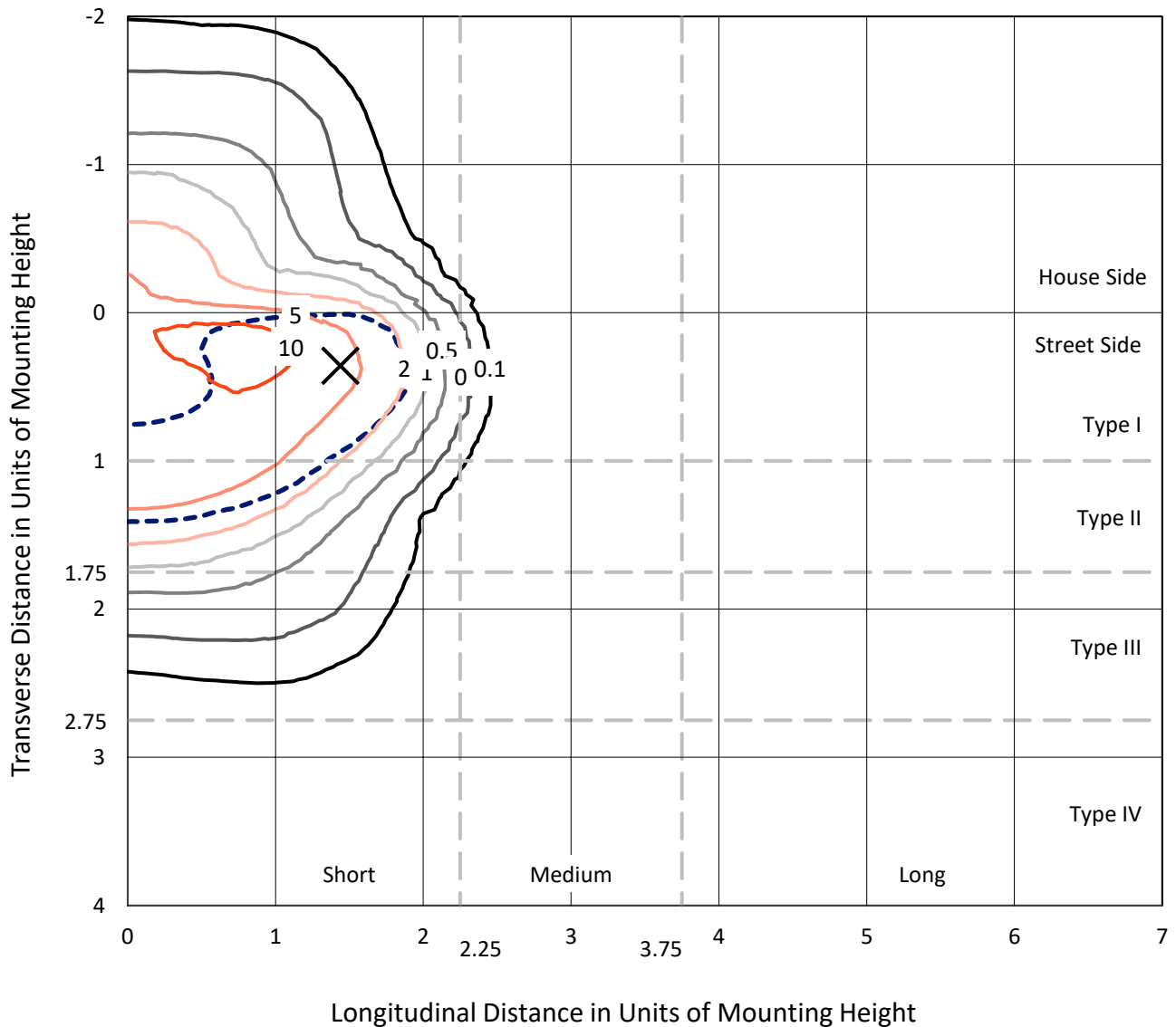
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

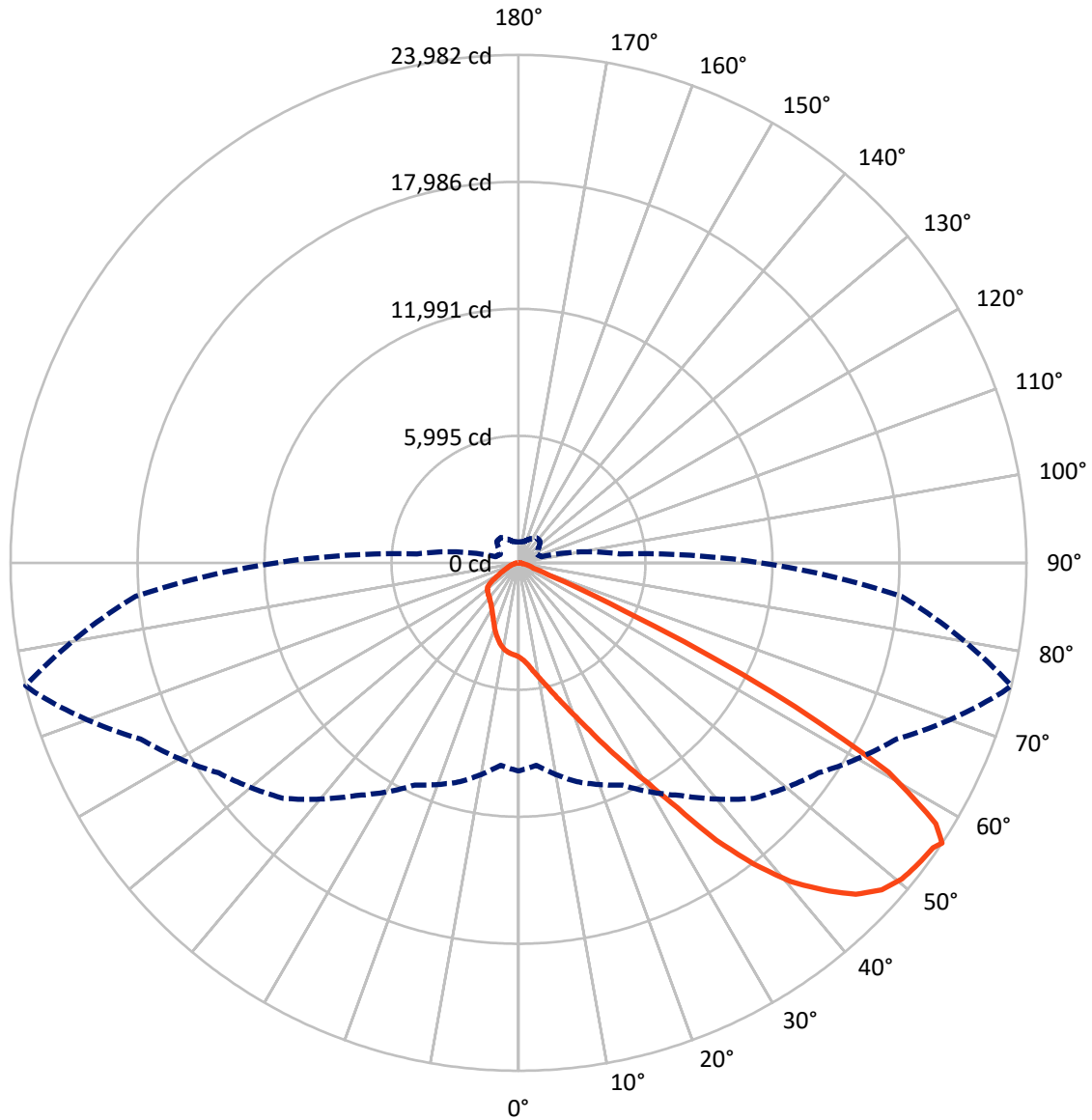
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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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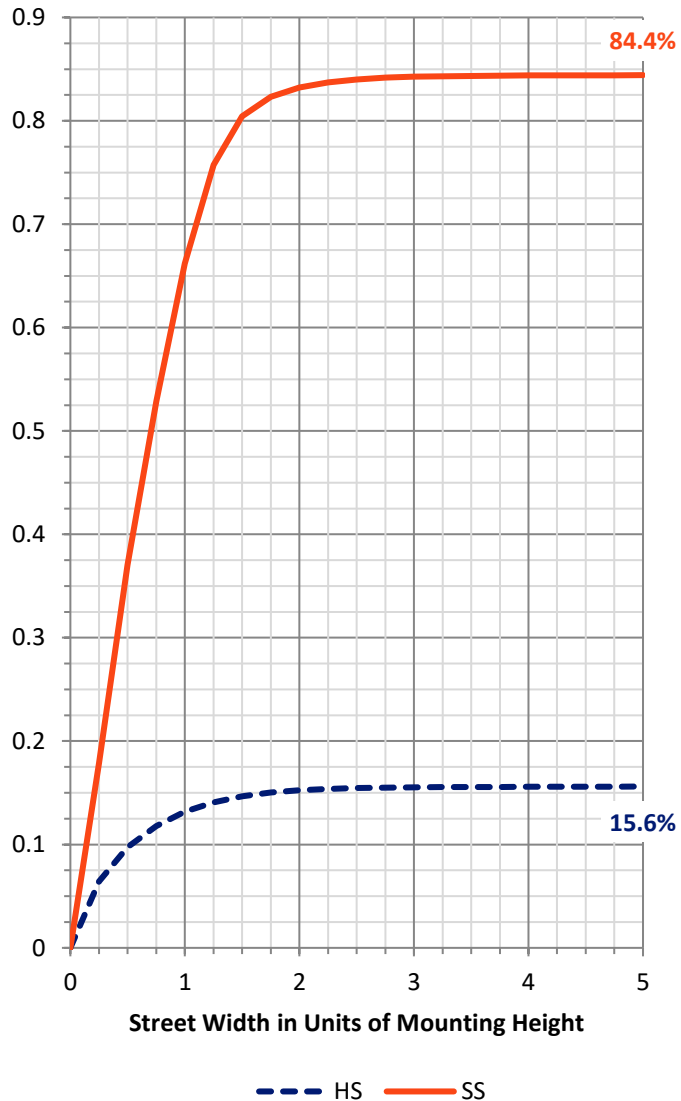
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4199.3	0.0	4199.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	22531.9	0.0	22531.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	26731.2	0.0	26731.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	1.7
10°-20°	1440.0	5.4
20°-30°	2611.0	9.8
30°-40°	4502.9	16.8
40°-50°	7315.0	27.4
50°-60°	7710.3	28.8
60°-70°	2355.8	8.8
70°-80°	302.0	1.1
80°-90°	45.9	0.2
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°	26731.2	100.0
0°-180°	26731.2	100.0

Coefficient of Utilization



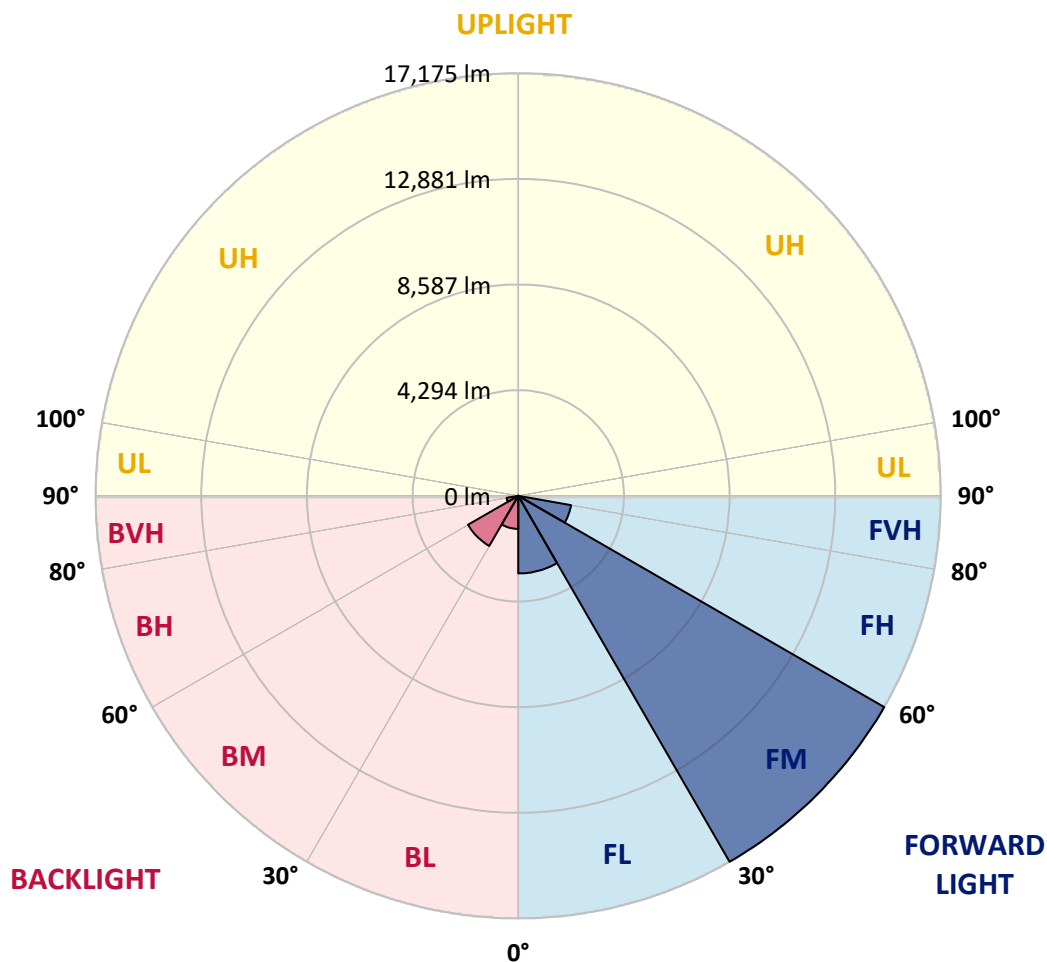
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3155.9	11.8			
FM (30°-60°)	17174.8	64.2			
FH (60°-80°)	2178.8	8.2			G2/5000
FVH (80°-90°)	22.5	0.1			G1/100
BL (0°-30°)	1343.4	5.0	B3/2500		
BM (30°-60°)	2353.5	8.8	B2/2500		
BH (60°-80°)	479.1	1.8	B1/500		G1/500
BVH (80°-90°)	23.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5
2.5°	5124.5	5006.2	5011.2	5001.3	4986.5	4932.3	4769.7	4745.1	4636.7	4607.1	4508.6
5°	5740.4	5637.0	5696.1	5607.4	5523.6	5474.3	5208.2	5085.1	4912.6	4848.5	4710.6
7.5°	6124.8	6075.5	6055.8	6060.7	5981.9	5858.7	5740.4	5469.4	5237.8	5188.5	4897.8
10°	6312.0	6282.4	6312.0	6297.2	6331.7	6346.5	6139.6	5976.9	5637.0	5553.2	5099.8
12.5°	6356.4	6415.5	6440.1	6504.2	6588.0	6730.9	6716.1	6494.3	6041.0	5986.8	5410.3
15°	6464.8	6514.0	6489.4	6592.9	6750.5	6992.0	7120.1	7085.6	6597.8	6499.2	5770.0
17.5°	6563.3	6474.6	6558.4	6765.3	6923.0	7292.6	7603.0	7745.9	7203.8	7090.6	6100.1
20°	6696.4	6671.7	6656.9	6760.4	7041.3	7534.0	8150.0	8411.1	7883.9	7765.6	6573.2
22.5°	7100.4	7105.4	7095.4	6942.7	7144.7	7701.5	8627.9	9273.4	8696.9	8598.3	7110.2
25°	7632.6	7568.5	7519.2	7396.0	7371.4	7854.3	9110.8	10327.8	9672.5	9603.5	7691.7
27.5°	8194.3	8194.3	8046.4	7933.2	7775.5	8233.7	9554.3	11352.7	10850.2	10756.6	8199.2
30°	8805.3	8839.8	8820.1	8578.6	8480.1	8647.6	10007.6	12663.4	12200.2	12082.0	9036.9
32.5°	9707.0	9633.1	9716.8	9514.8	9224.1	9371.9	10722.0	13836.1	13954.4	13786.8	10135.6
35°	10899.4	10855.0	10800.9	10470.7	10125.8	10244.1	11732.1	15279.9	16157.0	16073.2	11244.3
37.5°	11968.7	11944.1	11899.6	11673.0	11273.9	11416.8	12880.3	16782.7	18305.3	18029.4	12811.3
40°	13092.1	13225.1	13082.3	12880.3	12515.6	12831.0	14230.3	17674.6	20113.7	19778.6	14008.6
42.5°	14614.6	14511.2	14575.3	14205.7	14008.6	14353.5	15585.4	18566.4	21518.0	21118.9	15279.9
45°	16235.8	16240.7	16068.2	15950.0	15437.6	15812.1	16418.1	19059.2	22636.5	22326.0	16240.7
47.5°	17275.5	17270.5	17457.8	17645.0	17117.8	16748.3	16984.8	19527.3	23213.0	23070.1	16590.6
50°	17112.8	17162.1	17403.6	18103.3	18379.2	17881.5	17516.9	19389.3	23474.2	23459.4	16891.1
52.5°	14885.7	15048.3	15452.4	16462.5	17852.0	18467.9	18073.7	19645.6	23602.2	23626.9	17339.6
55°	11333.1	11421.7	12190.4	13417.3	14954.7	17063.6	17852.0	19847.6	23700.8	23745.1	17881.5
56°	9830.2	9593.6	10702.3	11574.4	13412.4	15718.5	17290.3	19689.9	23641.7	23981.7	18152.6
57.5°	7420.6	7263.0	8159.8	9248.7	11017.7	13451.8	15546.0	18945.9	23242.5	23237.7	17763.3
60°	4513.5	4355.8	5045.7	5686.3	6676.6	8282.9	10505.3	15087.7	19650.5	20064.4	14383.1
62.5°	2685.4	2784.0	3464.0	3853.2	4173.5	4341.1	5435.0	8967.8	13111.9	13407.5	8923.5
65°	1788.6	1823.1	2335.6	2976.1	3119.0	2483.4	2212.4	3631.5	5686.3	5503.9	3680.8
67.5°	1103.7	1182.6	1567.0	2237.1	2478.5	1813.3	1049.6	1355.0	1567.0	1567.0	1064.3
70°	670.1	709.6	1044.6	1522.5	1699.9	1167.8	763.7	763.7	753.9	739.1	635.6
72.5°	320.3	344.9	532.2	783.5	798.3	615.9	591.3	645.5	630.7	625.8	527.2
75°	138.0	147.8	187.2	246.3	280.9	261.1	359.7	463.1	477.9	463.1	379.4
77.5°	44.3	49.3	69.0	88.7	93.6	113.4	152.7	192.2	221.8	207.0	187.2
80°	5.0	9.8	19.7	44.3	69.0	88.7	113.4	128.1	142.9	142.9	133.0
82.5°	5.0	5.0	19.7	39.4	64.1	83.8	108.4	123.2	142.9	147.8	138.0
85°	0.0	5.0	14.8	34.5	54.2	54.2	49.3	49.3	34.5	34.5	34.5
87.5°	0.0	0.0	5.0	5.0	5.0	9.8	9.8	9.8	9.8	9.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5	4449.5
2.5°	4488.8	4479.0	4346.0	4262.2	4217.9	4129.1	4075.0	4035.5	4006.0	3971.5	3976.4
5°	4548.0	4513.5	4291.8	4139.0	3956.7	3858.2	3774.4	3705.4	3661.0	3651.2	3631.5
7.5°	4715.5	4533.2	4198.2	3922.2	3690.6	3592.1	3518.2	3473.8	3493.5	3449.2	3483.7
10°	4843.7	4572.6	4084.8	3685.7	3454.1	3380.2	3340.8	3375.3	3424.6	3404.9	3380.2
12.5°	5001.3	4612.0	3902.5	3459.0	3242.2	3188.1	3257.0	3321.1	3419.6	3459.0	3409.8
15°	5178.7	4656.4	3670.9	3197.9	3059.9	3104.3	3222.5	3335.8	3434.4	3483.7	3513.3
17.5°	5395.5	4641.6	3444.2	2990.9	2887.5	3015.6	3158.5	3261.9	3409.8	3483.7	3464.0
20°	5597.5	4592.4	3192.9	2784.0	2788.9	2907.2	3025.4	3192.9	3271.8	3370.3	3335.8
22.5°	5789.7	4503.6	2931.8	2641.1	2641.1	2823.4	2882.5	2990.9	3059.9	3109.2	3104.3
25°	6060.7	4336.1	2715.0	2503.2	2562.3	2680.5	2729.8	2764.3	2734.7	2774.1	2779.1
27.5°	6252.8	4163.6	2537.6	2379.9	2488.4	2577.0	2562.3	2542.5	2473.5	2419.4	2453.9
30°	6459.8	3961.6	2384.8	2296.2	2355.3	2434.1	2375.0	2315.9	2207.5	2118.8	2123.7
32.5°	6755.5	3868.0	2251.9	2197.6	2276.4	2286.3	2222.3	2133.5	2025.1	1941.4	1936.5
35°	7307.4	3808.9	2138.5	2133.5	2148.3	2153.3	2089.2	1980.8	1936.5	1867.5	1892.1
37.5°	7859.2	3779.3	2059.7	2039.9	2035.1	2039.9	1966.0	1862.6	1946.3	1941.4	1951.3
40°	8563.8	3912.3	1946.3	1921.7	1926.6	1926.6	1833.0	1803.4	1951.3	1966.0	1971.0
42.5°	9278.3	4079.9	1872.4	1793.6	1813.3	1813.3	1764.0	1729.5	1833.0	1734.5	1719.7
45°	9899.2	4326.3	1793.6	1665.4	1714.7	1739.4	1724.6	1665.4	1601.4	1433.9	1433.9
47.5°	10101.2	4543.1	1699.9	1542.3	1581.7	1690.1	1645.8	1522.5	1409.3	1271.3	1261.4
50°	10456.0	4779.6	1626.1	1399.4	1483.2	1616.1	1571.8	1448.6	1320.5	1222.0	1226.9
52.5°	10820.6	5050.6	1488.1	1231.8	1335.3	1557.0	1557.0	1419.1	1222.0	1153.0	1143.2
55°	11367.5	5040.7	1241.7	1010.1	1192.5	1468.4	1493.0	1271.3	1093.9	1039.6	1039.6
56°	11446.3	4814.1	1118.5	946.0	1128.4	1443.7	1448.6	1231.8	1044.6	985.5	985.5
57.5°	10855.0	4346.0	980.5	867.2	1049.6	1399.4	1404.3	1197.3	1005.2	921.4	911.6
60°	8352.0	2941.6	818.0	773.6	951.0	1261.4	1286.1	1088.9	882.0	818.0	813.0
62.5°	4715.5	1631.0	719.4	699.7	818.0	1074.2	1148.0	951.0	749.0	714.5	724.4
65°	2153.3	896.8	606.1	566.7	660.3	827.8	926.4	783.5	615.9	576.5	576.5
67.5°	788.4	611.0	517.4	448.4	463.1	537.1	601.1	507.5	409.0	349.9	364.7
70°	561.7	512.4	453.3	389.3	359.7	349.9	344.9	285.8	202.0	157.7	167.5
72.5°	453.3	423.8	379.4	330.2	280.9	236.5	202.0	147.8	93.6	64.1	59.1
75°	325.2	310.4	275.9	236.5	197.1	167.5	138.0	93.6	49.3	24.6	24.6
77.5°	167.5	167.5	162.6	147.8	123.2	98.6	78.8	54.2	29.6	9.8	9.8
80°	128.1	138.0	142.9	128.1	113.4	88.7	64.1	39.4	19.7	5.0	5.0
82.5°	123.2	142.9	152.7	133.0	113.4	83.8	64.1	39.4	19.7	5.0	5.0
85°	29.6	29.6	44.3	49.3	64.1	69.0	54.2	34.5	14.8	5.0	5.0
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	5.0	5.0	5.0	5.0	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)