

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: P651505

Luminaire Tested: **GALN-SA7D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
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-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38408.5 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

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

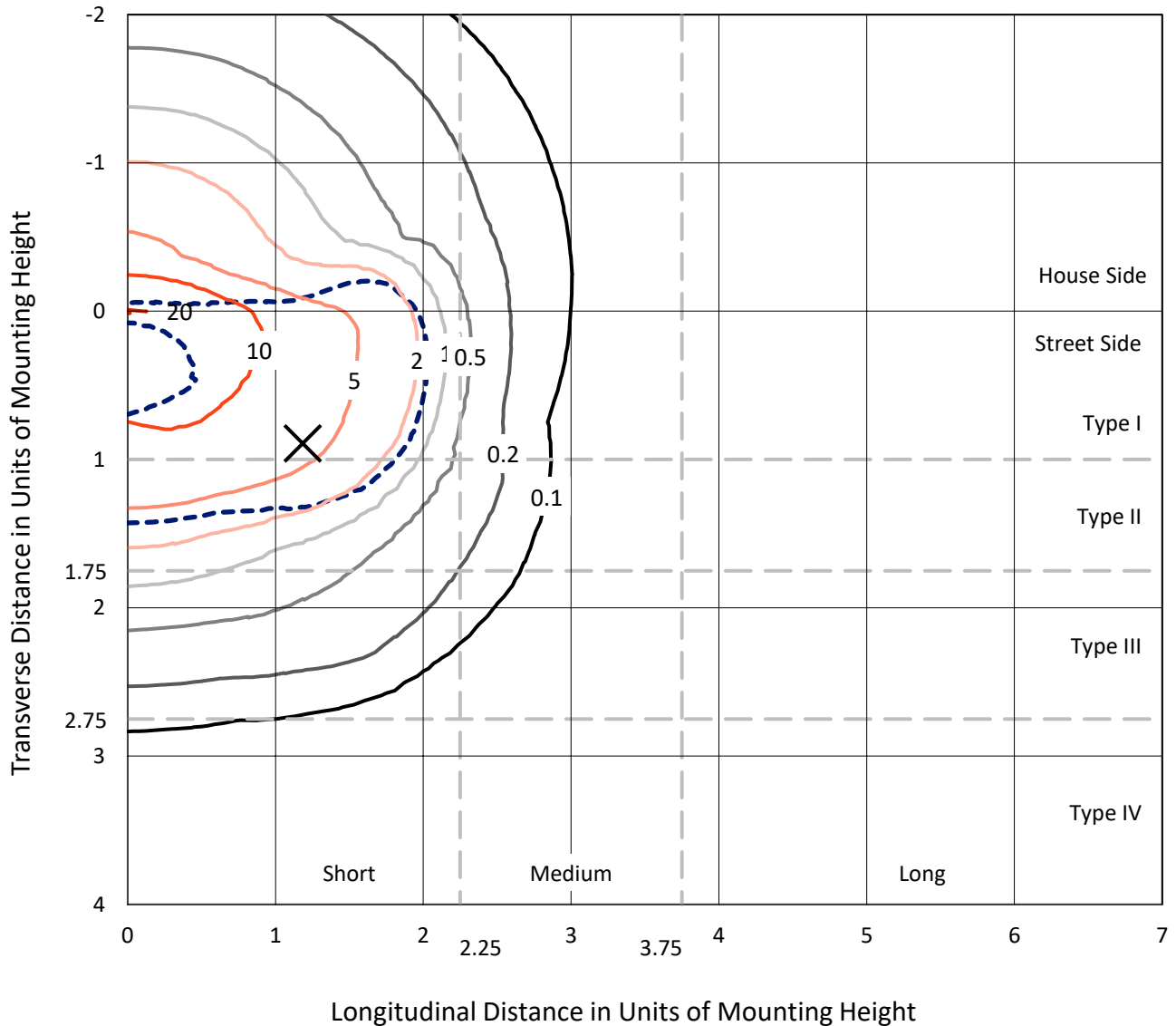




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Iso-Footcandle Lines of Horizontal Illumination

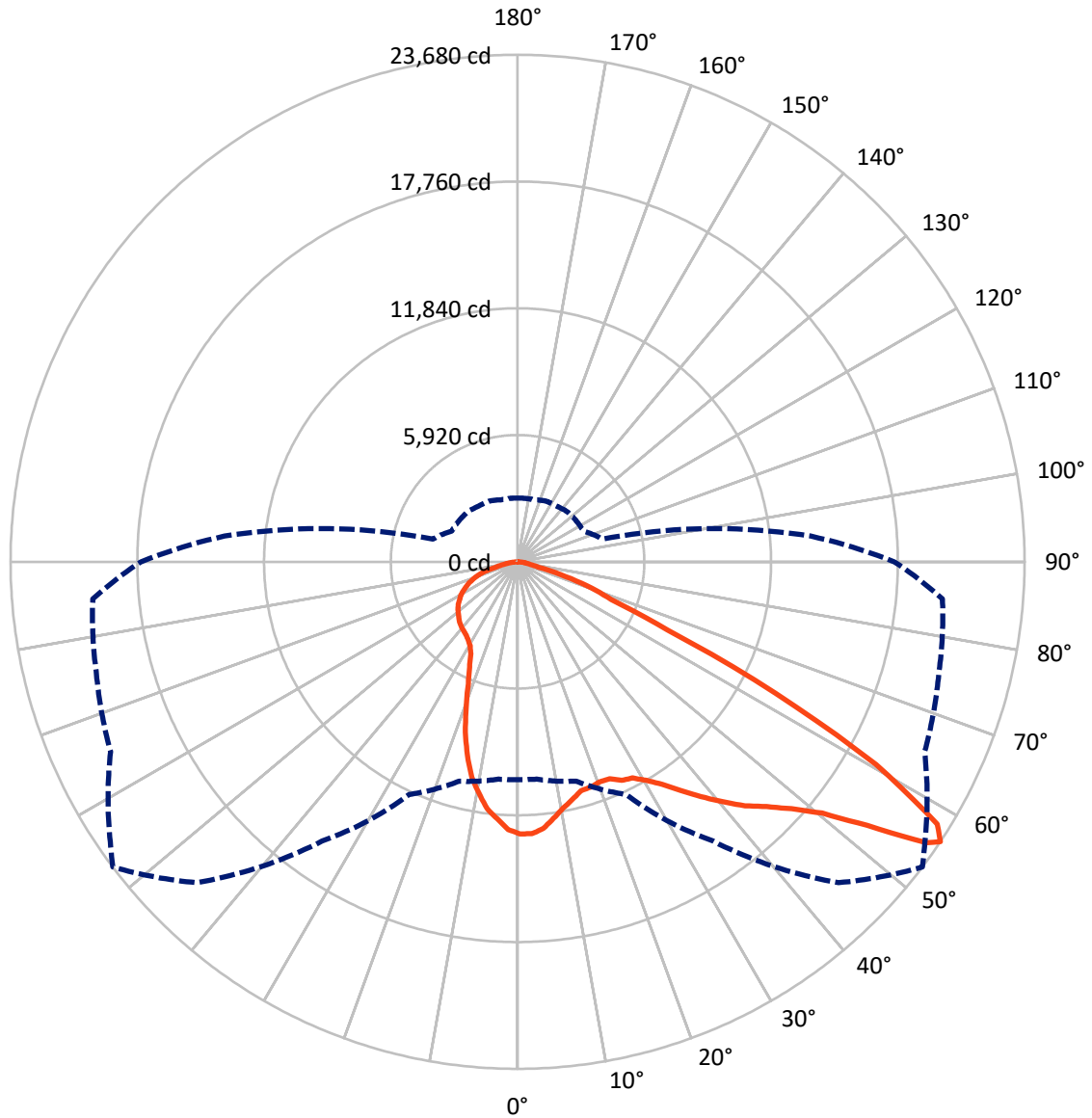
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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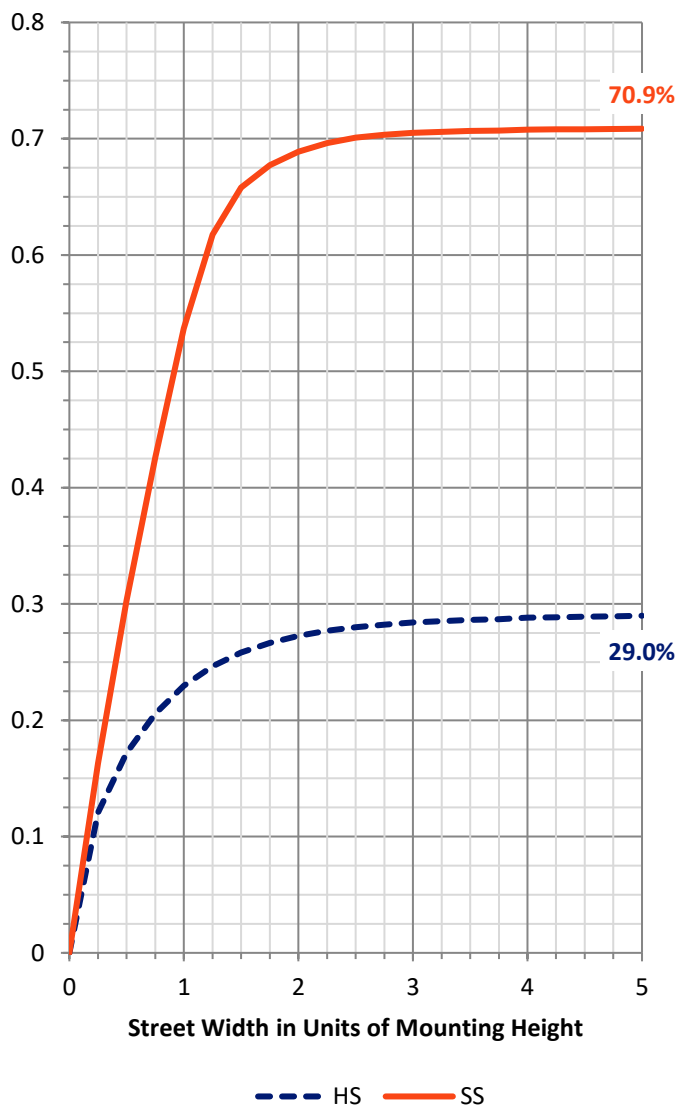
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11208.4	0.0	11208.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	27200.0	0.0	27200.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	38408.5	0.0	38408.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1124.9	2.9
10°-20°	2809.6	7.3
20°-30°	4143.0	10.8
30°-40°	5919.5	15.4
40°-50°	8147.4	21.2
50°-60°	9628.1	25.1
60°-70°	5131.1	13.4
70°-80°	1301.7	3.4
80°-90°	203.0	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°	38408.5	100.0
0°-180°	38408.5	100.0

Coefficient of Utilization

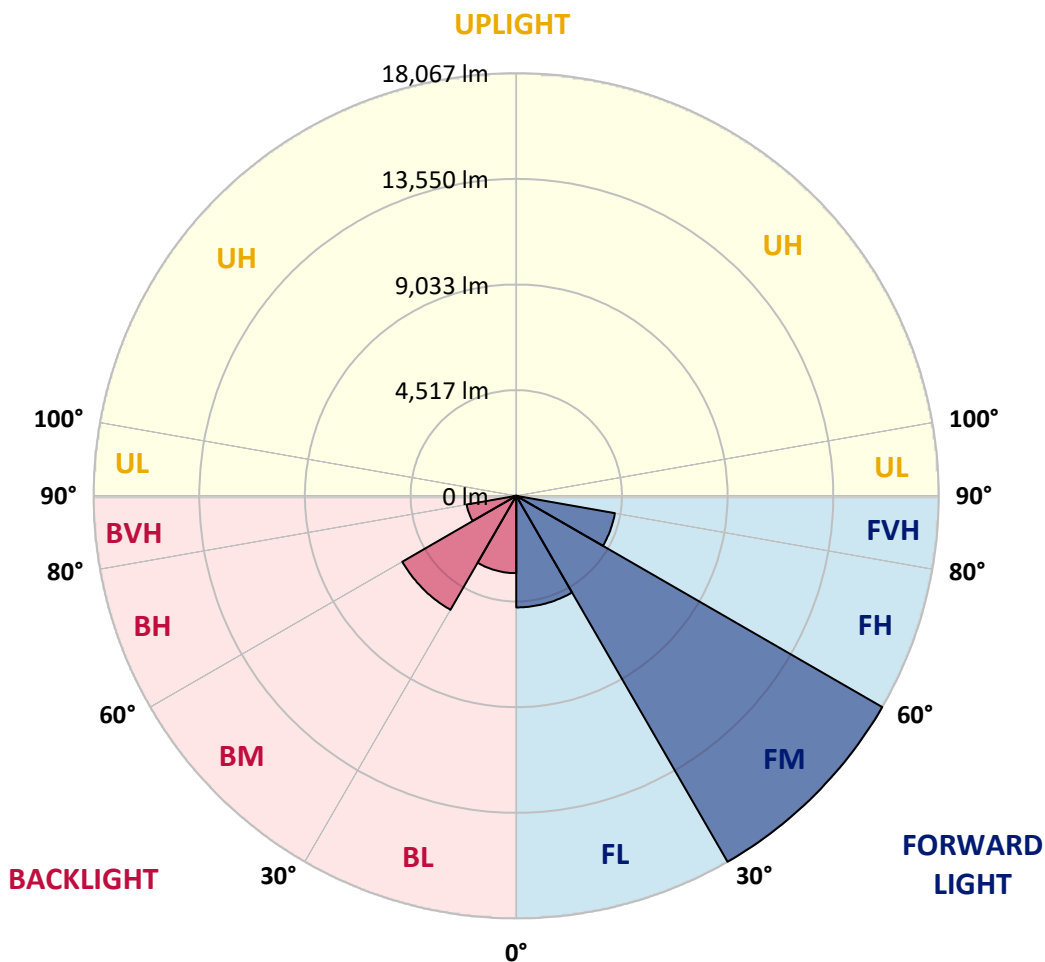


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4771.7	12.4			
FM (30°-60°)	18066.6	47.0			
FH (60°-80°)	4280.1	11.1			G2/5000
FVH (80°-90°)	81.6	0.2			G1/100
BL (0°-30°)	3305.8	8.6	B4/5000		
BM (30°-60°)	5628.5	14.7	B4/8500		
BH (60°-80°)	2152.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	121.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0
2.5°	12549.4	12441.0	12505.0	12480.4	12682.4	12741.5	12712.0	12736.6	12849.9	12795.7	12682.4
5°	11726.6	11879.3	11908.8	11982.7	12101.0	12332.6	12514.8	12564.1	12618.4	12869.7	12845.0
7.5°	10977.7	11081.1	11026.9	11243.7	11499.9	11874.3	12096.1	12135.5	12633.2	12771.1	12874.5
10°	10504.6	10401.2	10647.5	10706.6	10997.3	11426.0	11692.1	11854.7	12308.0	12854.9	12918.9
12.5°	10066.1	10031.6	10179.5	10346.9	10672.1	11115.6	11386.6	11450.6	12150.3	12726.8	13027.3
15°	9740.9	9701.5	9849.3	9972.5	10351.9	10746.0	11090.9	11273.3	11977.9	12652.8	12933.7
17.5°	9484.7	9479.8	9563.5	9785.3	10174.5	10504.6	11061.3	11071.3	11889.1	12766.1	13012.5
20°	9469.9	9465.0	9479.8	9726.2	10080.9	10484.9	10967.7	11056.5	11889.1	12687.3	13017.4
22.5°	9593.1	9514.2	9603.0	9760.6	10016.8	10519.4	11002.2	11199.3	12174.9	13076.5	13239.2
25°	9790.2	9809.9	9859.1	9913.4	10061.1	10598.2	11307.7	11470.3	12510.0	13411.6	13544.6
27.5°	10149.9	10140.0	10159.7	10189.3	10317.4	10672.1	11430.9	11849.7	13209.6	14007.8	13874.7
30°	10677.1	10642.6	10721.4	10824.8	10706.6	10908.6	11839.9	12155.2	13860.0	14608.9	14244.3
32.5°	11155.0	11283.1	11430.9	11475.3	11332.4	11371.7	12381.9	12702.1	14402.0	15348.0	14697.6
35°	11751.2	11854.7	12051.7	12189.7	12165.1	12046.8	13120.9	13544.6	15185.3	15889.9	15175.5
37.5°	12332.6	12455.7	12780.9	13189.9	12963.3	12909.0	13909.2	14259.1	15426.8	16180.7	15525.4
40°	13268.7	13263.8	13825.5	14037.4	14239.4	14145.8	14727.2	14845.4	15554.9	16116.6	15535.2
42.5°	14367.5	14298.5	14870.1	15200.1	15461.3	15471.1	15579.5	15540.2	15614.0	15791.4	15431.8
45°	15412.0	15559.8	16136.4	16727.6	16988.7	17018.2	16298.9	16225.0	15717.5	15697.8	15234.6
47.5°	16688.1	16722.6	17195.7	17974.1	18580.1	18373.2	17230.2	17067.5	16170.8	16323.6	15564.7
50°	16762.1	17018.2	17442.0	18358.4	20220.9	20166.7	18437.2	18131.8	16900.0	17210.4	16486.1
52.5°	15215.0	15155.8	15658.4	17156.2	20097.7	21950.3	20437.6	19708.5	18466.8	18230.4	17979.1
55°	11593.5	11731.4	12174.9	13687.5	17451.8	21974.9	23162.4	22566.2	20142.0	19738.0	19447.4
56°	10169.5	10189.3	10608.1	11987.7	15924.4	21191.5	23679.7	23196.9	20974.7	20358.8	19915.4
57.5°	8430.3	8317.0	8533.8	9287.6	13441.2	19536.0	23113.1	23586.1	21950.3	21029.0	20413.1
60°	6636.8	6612.2	6523.5	6661.5	8494.4	14717.3	19240.4	20304.7	21851.8	20398.3	19550.8
62.5°	5419.8	5296.6	5474.1	5671.1	5902.7	9130.0	13520.0	14145.8	17348.4	16284.1	14687.7
65°	4202.8	4143.7	4365.5	5006.0	5143.9	5799.2	7701.1	8183.9	10243.5	10061.1	8858.9
67.5°	2892.2	2902.0	3094.2	4069.8	4769.5	4710.4	4715.2	4966.5	5345.9	3971.3	3458.9
70°	1832.9	1828.0	1931.4	2621.2	3838.2	3877.7	3680.6	3606.6	3419.4	2069.4	2192.6
72.5°	1177.6	1143.1	1197.2	1448.5	1985.6	2296.0	2365.0	2409.4	1980.7	1626.0	1763.9
75°	665.1	630.7	611.0	675.0	783.4	906.6	995.2	1024.8	1148.0	1231.8	1305.7
77.5°	202.0	182.3	221.7	295.6	389.2	522.3	635.6	655.3	773.6	872.1	946.0
80°	88.7	98.6	137.9	197.0	275.9	369.5	448.3	477.9	556.7	630.7	650.3
82.5°	54.2	59.1	93.6	133.0	192.2	261.1	320.3	330.1	409.0	468.1	482.8
85°	19.7	24.6	49.3	78.8	123.2	167.5	167.5	182.3	167.5	167.5	182.3
87.5°	0.0	0.0	5.0	9.8	9.8	14.8	19.7	19.7	24.6	29.6	34.5
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°	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0	12707.0
2.5°	12741.5	12716.9	12677.5	12534.6	12519.8	12475.5	12229.1	12189.7	12229.1	12110.8	12120.7
5°	12716.9	12790.8	12495.2	12352.3	12086.2	11894.1	11672.3	11559.0	11357.0	11228.9	11371.7
7.5°	12825.2	12795.7	12426.2	12115.8	11716.6	11228.9	10839.6	10618.0	10263.1	10164.7	10238.6
10°	12785.9	12628.2	12194.6	11785.7	11031.8	10603.2	9972.5	9361.5	9026.5	8854.0	8829.4
12.5°	12731.6	12687.3	11963.1	11258.5	10465.2	9563.5	8676.7	8100.2	7553.3	7316.8	7351.3
15°	12795.7	12421.2	11529.4	10637.6	9583.3	8400.7	7444.9	6700.9	6321.5	6168.7	6168.7
17.5°	12766.1	12293.1	11322.6	9942.9	8607.6	7208.4	6158.9	5710.6	5552.9	5552.9	5597.2
20°	12780.9	12376.9	10903.7	9248.2	7454.7	6070.2	5306.5	5143.9	5212.9	5237.5	5262.1
22.5°	12864.7	12101.0	10494.8	8484.5	6385.5	5193.2	4818.8	4823.6	4946.8	5079.9	5055.3
25°	12968.1	11992.6	9997.1	7725.7	5567.7	4764.5	4646.3	4631.5	4725.1	4794.1	4804.0
27.5°	12879.5	11805.4	9489.6	6779.7	4897.6	4478.7	4454.1	4463.9	4493.5	4631.5	4587.2
30°	13170.1	11859.5	8854.0	5986.4	4528.0	4385.1	4355.5	4340.8	4385.1	4424.6	4390.0
32.5°	13529.8	11667.4	8381.0	5222.8	4345.7	4316.2	4257.1	4237.3	4261.9	4222.6	4242.3
35°	13687.5	11633.0	7765.1	4675.9	4202.8	4178.2	4143.7	4138.8	4143.7	4109.2	4079.7
37.5°	13776.3	11795.5	7060.5	4424.6	4114.2	4138.8	4059.9	4050.1	3961.4	3981.1	3995.9
40°	13929.0	11544.2	6489.0	4183.1	4059.9	4010.6	3941.7	3926.9	3867.8	3833.3	3867.8
42.5°	13707.2	11470.3	5927.3	4079.7	3981.1	3926.9	3877.7	3793.9	3774.2	3744.6	3724.9
45°	13529.8	11046.6	5424.8	3951.5	3887.5	3857.9	3764.3	3675.6	3601.8	3631.3	3586.9
47.5°	13662.9	10898.8	4927.1	3843.1	3759.4	3724.9	3631.3	3562.3	3488.4	3453.9	3444.1
50°	14195.0	11174.7	4508.3	3764.3	3651.0	3631.3	3508.1	3429.3	3360.3	3335.7	3345.5
52.5°	15466.2	11928.6	4222.6	3601.8	3547.5	3458.9	3389.8	3291.3	3246.9	3168.1	3217.4
55°	17077.4	13155.4	4148.7	3448.9	3419.4	3340.6	3246.9	3173.1	3089.3	3025.2	3010.4
56°	17594.7	13741.8	4089.5	3389.8	3340.6	3296.2	3173.1	3128.7	2995.7	2980.9	2971.1
57.5°	18013.5	14259.1	4099.4	3276.5	3227.3	3187.8	3114.0	3005.6	2916.8	2862.7	2887.3
60°	17067.5	13347.6	3912.2	3104.0	3094.2	3020.3	2916.8	2867.6	2759.2	2695.2	2680.4
62.5°	12687.3	9060.9	3173.1	2882.4	2877.4	2798.6	2680.4	2626.2	2606.4	2517.8	2517.8
65°	7306.9	5681.0	2744.4	2700.0	2660.7	2581.8	2463.5	2419.2	2369.9	2340.4	2315.8
67.5°	3118.8	2946.4	2493.1	2488.2	2443.9	2345.3	2227.1	2158.1	2094.0	2034.9	2064.5
70°	2261.5	2296.0	2251.7	2227.1	2172.9	2049.7	1946.2	1862.5	1763.9	1724.5	1754.1
72.5°	1793.4	1867.4	1931.4	1936.3	1872.3	1729.4	1616.1	1502.8	1394.4	1340.2	1364.8
75°	1359.9	1409.2	1473.2	1488.0	1394.4	1295.8	1187.4	1069.2	985.4	921.4	931.2
77.5°	980.5	970.7	1029.8	1019.9	975.6	906.6	808.0	699.6	606.0	546.9	551.9
80°	670.1	684.9	719.4	714.4	660.3	615.9	542.0	453.3	384.3	335.1	325.2
82.5°	468.1	492.7	522.3	497.6	453.3	409.0	354.7	290.7	236.5	197.0	187.2
85°	167.5	192.2	221.7	236.5	251.3	241.5	202.0	162.6	118.2	98.6	93.6
87.5°	34.5	39.4	44.3	44.3	44.3	39.4	34.5	34.5	29.6	14.8	14.8
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)