

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: P532186

Luminaire Tested: **GALN-SA7C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38591 lumens
Efficiency: N/A
Efficacy: 102.4 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

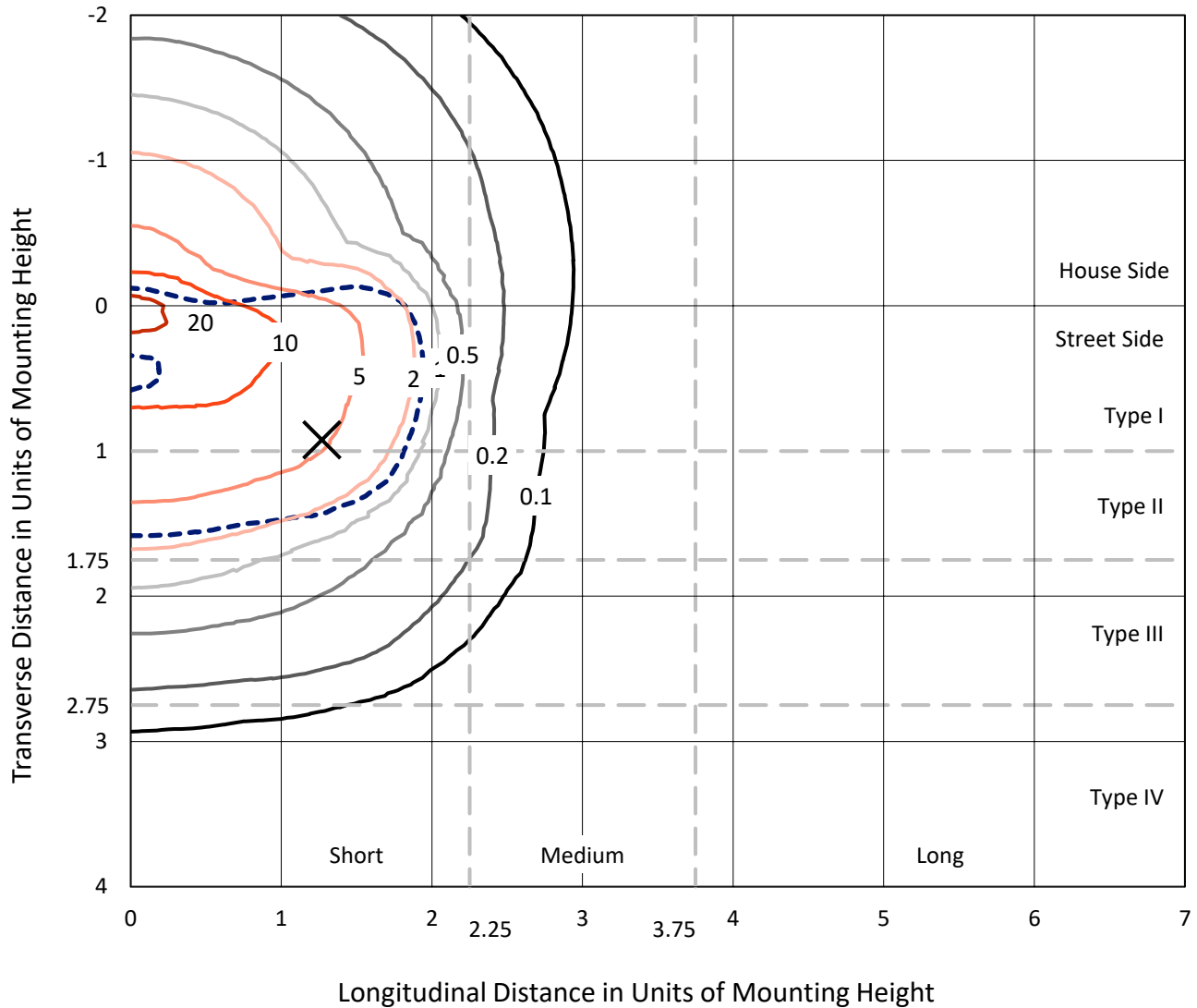
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

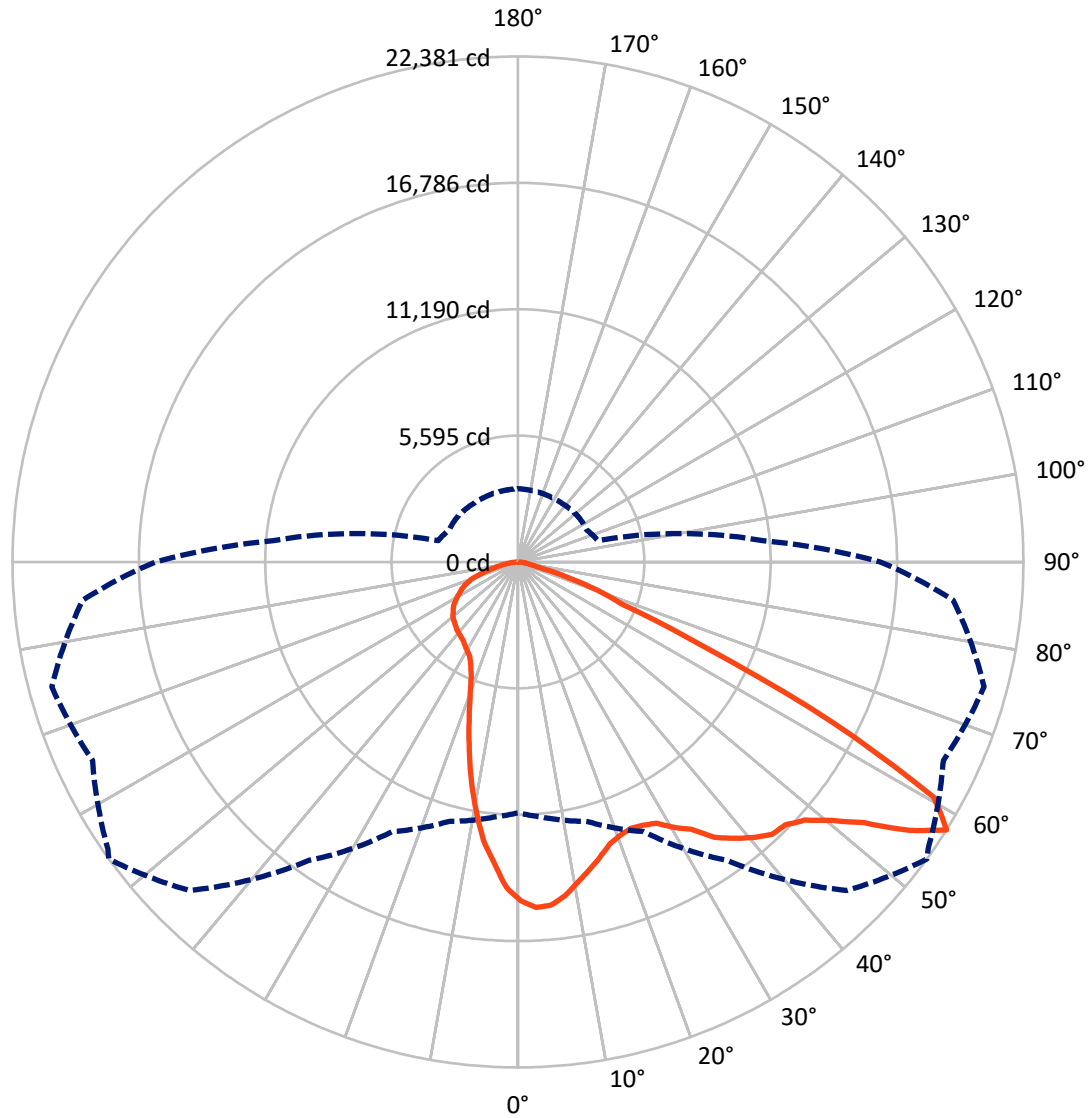
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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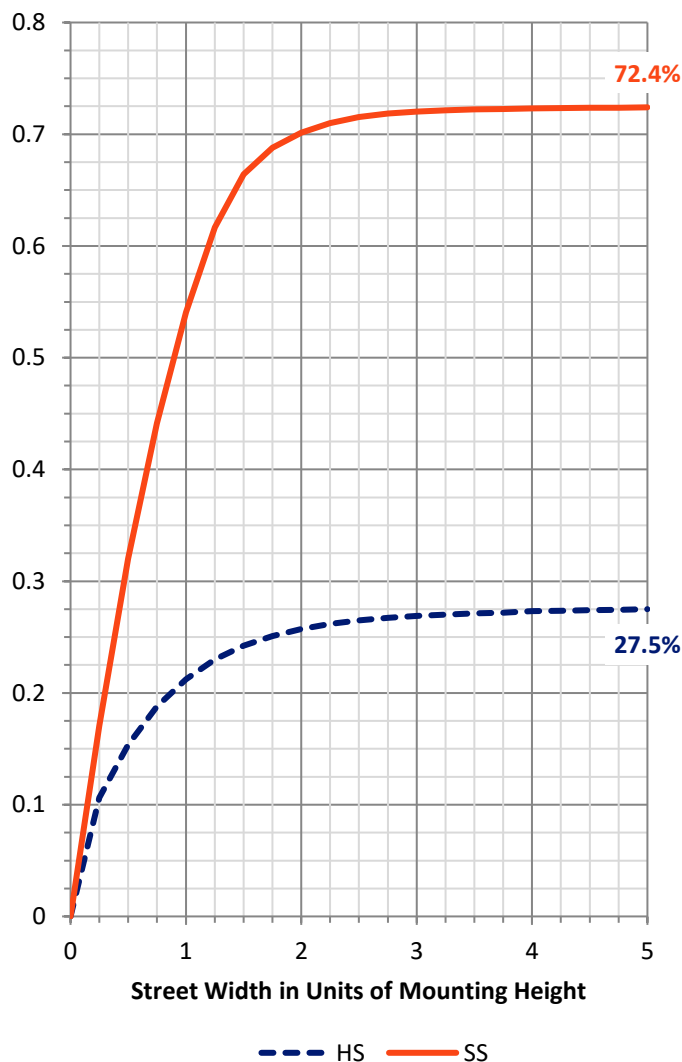
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10676.4	0.0	10676.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	27914.6	0.0	27914.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	38591.0	0.0	38591.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1293.6	3.4
10°-20°	2995.1	7.8
20°-30°	4208.2	10.9
30°-40°	5883.1	15.2
40°-50°	7964.6	20.6
50°-60°	9701.3	25.1
60°-70°	5052.8	13.1
70°-80°	1294.7	3.4
80°-90°	197.5	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°	38591.0	100.0
0°-180°	38591.0	100.0

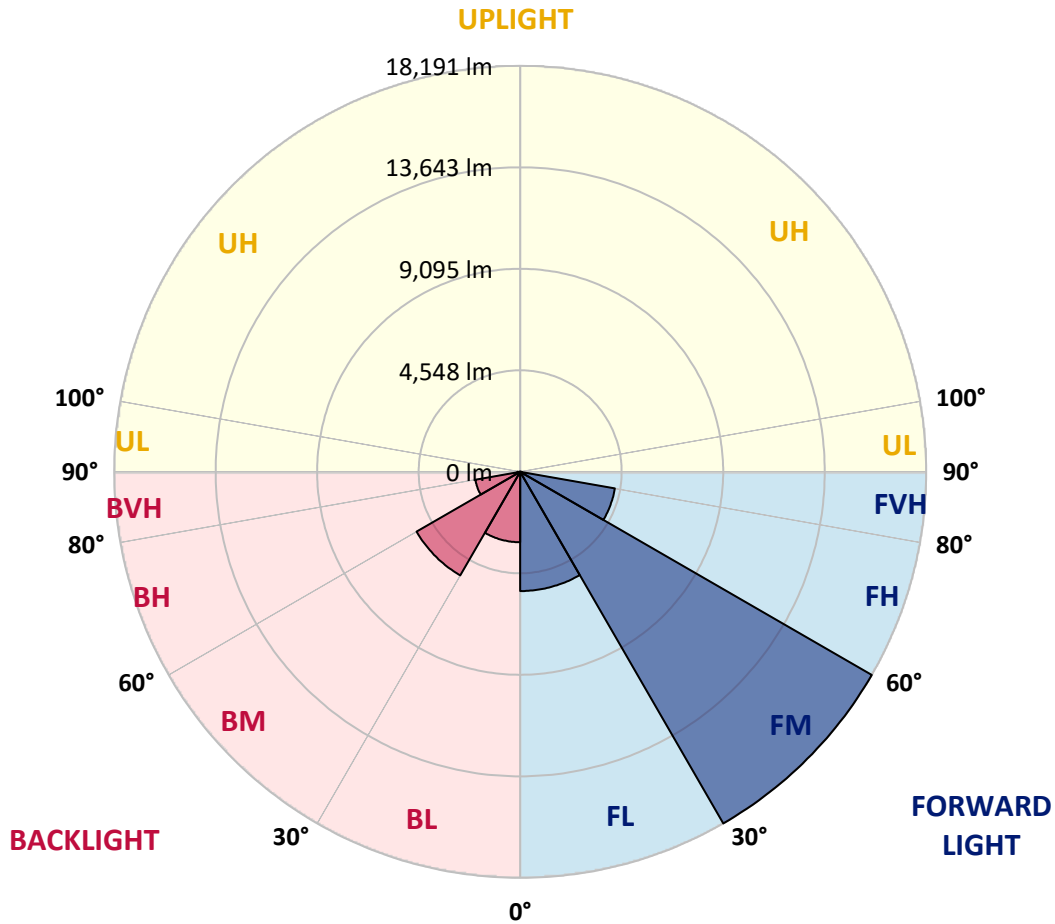


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5341.5	13.8			
FM (30°-60°)	18190.6	47.1			
FH (60°-80°)	4307.8	11.2			G2/5000
FVH (80°-90°)	74.6	0.2			G1/100
BL (0°-30°)	3155.4	8.2	B4/5000		
BM (30°-60°)	5358.4	13.9	B4/8500		
BH (60°-80°)	2039.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	122.9	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°	54°	55°	65°	75°	85°
0°	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9
2.5°	15426.5	15366.9	15376.9	15456.2	15357.0	15317.3	15317.3	15123.9	15138.8	15004.8	14970.1
5°	15069.3	14930.4	15024.7	15143.7	15163.6	15203.3	15267.7	15218.1	15079.2	14935.4	14702.3
7.5°	14136.8	14260.8	14295.5	14379.8	14558.4	14722.1	14925.5	14786.6	14781.6	14637.8	14498.9
10°	13318.3	13243.9	13432.4	13556.4	13854.1	14126.9	14439.4	14424.5	14498.9	14335.2	14097.1
12.5°	12504.9	12445.3	12534.6	12817.4	13234.0	13630.8	14002.9	13864.0	14260.8	14231.0	13720.1
15°	11641.8	11686.4	11815.4	12078.3	12623.9	13100.1	13571.3	13576.3	13928.5	14047.5	13363.0
17.5°	11036.6	10987.0	11150.7	11542.6	12028.7	12599.1	13134.8	13243.9	13784.6	13854.1	13253.9
20°	10585.2	10654.7	10868.0	11066.4	11626.9	12316.4	12921.5	12961.2	13754.8	13943.3	13080.3
22.5°	10476.1	10436.4	10505.9	10828.3	11289.6	12038.6	12807.4	12956.2	13749.9	13913.6	12752.9
25°	10362.0	10491.0	10486.0	10808.4	11145.7	11815.4	12901.7	13065.4	14012.8	14067.3	12797.5
27.5°	10620.0	10605.1	10744.0	10768.8	11185.4	11874.9	13100.1	13224.1	14449.3	14404.6	12832.2
30°	10877.9	10803.5	10887.8	11180.5	11373.9	12217.2	13645.7	13635.8	15014.8	14985.0	12941.4
32.5°	11195.3	11160.6	11215.2	11473.1	11800.5	12673.5	14107.0	14399.7	15590.2	15778.6	13318.3
35°	11254.9	11398.7	11527.7	11874.9	12341.2	13412.6	14975.1	15218.1	16254.8	16845.1	14037.6
37.5°	11631.9	11686.4	11989.0	12604.1	13030.6	14399.7	15525.7	15679.4	16860.0	17529.6	14796.5
40°	12033.6	12098.1	12554.5	13199.3	13784.6	15044.5	16041.5	16091.1	17053.4	18055.4	15292.5
42.5°	12579.3	12638.8	13090.2	13898.7	14682.4	15595.1	16497.9	16552.4	17038.6	18660.6	16081.2
45°	13144.7	13288.6	13819.3	14737.0	15441.3	16239.9	16602.0	16825.3	17177.4	19201.2	16721.1
47.5°	13938.4	14072.3	14508.8	15406.6	16230.0	16805.4	17083.2	17301.4	17509.8	19672.5	17132.8
50°	14781.6	14806.4	15337.2	16150.7	16755.8	17445.3	17981.0	18055.4	17946.3	20218.1	17832.2
52.5°	15401.7	15481.0	15892.7	16686.4	17589.1	18437.4	19171.5	19250.8	19037.5	20421.5	18070.3
55°	14374.9	14330.2	14999.9	16056.4	18149.7	19915.5	20982.0	21041.5	19831.2	21051.4	18849.1
57.5°	11111.0	11324.3	11894.7	13169.5	16125.9	20570.3	22380.8	22167.5	20783.6	21368.9	19345.1
60°	8075.3	8025.7	8407.7	9260.8	12152.7	17728.0	21160.5	21378.8	20004.8	19260.8	15952.3
62.5°	6577.3	6507.9	6537.6	6567.4	7842.2	11765.8	15664.6	15659.6	15406.6	13844.1	10758.8
65°	5257.9	5421.6	5436.5	5659.7	5823.4	7028.7	9077.3	9563.4	8328.3	6830.3	4955.3
67.5°	3963.3	3903.7	4102.1	4895.8	5203.3	5074.4	4955.3	5009.9	3561.5	2569.4	2420.6
70°	2336.3	2311.5	2549.6	3412.7	4285.7	4032.7	3735.1	3740.0	2445.4	1795.6	1999.0
72.5°	1279.8	1274.8	1324.4	1731.1	2435.5	2529.7	2242.0	2311.5	1458.3	1453.4	1562.5
75°	714.3	699.4	684.5	763.9	878.0	927.6	947.4	957.3	1002.0	1121.0	1165.7
77.5°	262.9	253.0	253.0	292.7	372.0	466.3	590.3	600.2	709.3	813.5	858.1
80°	89.3	99.2	133.9	183.5	248.0	332.3	401.8	411.7	501.0	570.4	585.3
82.5°	54.6	59.5	89.3	129.0	178.6	233.1	297.6	302.6	372.0	416.7	436.5
85°	24.8	29.8	49.6	79.4	114.1	153.8	158.7	158.7	153.8	158.7	148.8
87.5°	0.0	0.0	9.9	9.9	9.9	14.9	19.8	14.9	24.8	29.8	29.8
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°	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9	14999.9
2.5°	14866.0	14811.4	14642.7	14493.9	14449.3	14250.9	13958.2	13992.9	13779.7	13878.9	13774.7
5°	14662.6	14479.1	14047.5	13864.0	13382.8	13164.6	13015.8	12643.7	12470.1	12435.4	12286.6
7.5°	14141.8	14027.7	13487.0	12991.0	12480.1	12043.6	11483.0	11101.1	10828.3	10753.9	10535.6
10°	13730.0	13477.1	12728.1	11974.1	11244.9	10486.0	9756.9	9186.4	8908.7	8586.2	8477.1
12.5°	13323.3	12941.4	11929.5	10962.2	10019.8	9062.4	8179.5	7485.1	6879.9	6736.1	6686.5
15°	13070.3	12405.7	11215.2	10049.5	8710.2	7460.3	6577.3	6121.0	5749.0	5595.2	5704.3
17.5°	12738.0	11964.2	10530.7	8978.1	7504.9	6354.1	5615.0	5332.3	5198.4	5213.3	5168.6
20°	12321.3	11547.5	9632.9	8005.9	6428.5	5510.9	5089.2	4985.1	5004.9	5039.6	5024.8
22.5°	12023.7	11041.6	8983.1	7013.8	5555.5	5044.6	4871.0	4796.6	4861.1	4890.8	4866.0
25°	11795.5	10610.0	8194.4	6135.9	5049.6	4781.7	4702.3	4697.4	4796.6	4836.3	4811.5
27.5°	11587.2	10208.3	7410.7	5466.2	4712.3	4578.3	4553.5	4613.1	4677.5	4717.2	4751.9
30°	11463.2	9900.7	6676.5	4905.7	4543.6	4479.1	4434.5	4489.1	4523.8	4563.5	4543.6
32.5°	11582.2	9682.5	5967.2	4588.3	4404.7	4340.2	4399.8	4365.0	4424.6	4459.3	4404.7
35°	11954.3	9489.0	5461.3	4419.6	4246.0	4270.8	4280.7	4265.8	4290.6	4260.9	4325.4
37.5°	12321.3	9419.6	4995.0	4275.8	4171.6	4171.6	4161.7	4131.9	4181.5	4171.6	4201.4
40°	12787.6	9464.2	4598.2	4122.0	4102.1	4092.2	4052.5	4047.6	4027.7	4032.7	4042.6
42.5°	13194.3	9563.4	4370.0	4022.8	4037.7	4057.5	3983.1	3923.6	3948.4	3898.8	3898.8
45°	13625.9	9652.7	4166.6	3953.3	3938.5	3933.5	3874.0	3839.3	3819.4	3824.4	3869.0
47.5°	14305.4	9781.7	4012.9	3859.1	3869.0	3794.6	3779.7	3735.1	3754.9	3784.7	3789.7
50°	14786.6	10054.5	3893.8	3750.0	3784.7	3735.1	3645.8	3626.0	3626.0	3675.6	3665.6
52.5°	15123.9	10436.4	3779.7	3630.9	3645.8	3606.1	3576.4	3531.7	3502.0	3571.4	3606.1
55°	16155.6	11071.3	3750.0	3531.7	3526.8	3487.1	3432.5	3387.9	3373.0	3382.9	3452.4
57.5°	16056.4	10872.9	3655.7	3358.1	3348.2	3293.6	3239.1	3224.2	3219.2	3229.1	3249.0
60°	13035.6	8030.7	3263.9	3159.7	3144.8	3134.9	3080.3	3020.8	2991.0	3020.8	2996.0
62.5°	8625.9	5376.9	2877.0	2921.6	2931.5	2906.7	2817.4	2757.9	2767.8	2802.6	2748.0
65°	4236.1	3159.7	2609.1	2728.2	2738.1	2668.6	2584.3	2514.9	2480.1	2509.9	2485.1
67.5°	2420.6	2415.7	2390.9	2514.9	2509.9	2440.5	2306.5	2247.0	2187.5	2197.4	2182.5
70°	2053.6	2093.2	2142.8	2217.2	2212.3	2132.9	1974.2	1929.5	1845.2	1835.3	1810.5
72.5°	1617.1	1686.5	1795.6	1850.2	1805.5	1706.3	1602.2	1527.8	1453.4	1408.7	1423.6
75°	1200.4	1299.6	1359.1	1393.8	1324.4	1269.8	1185.5	1096.2	1006.9	967.3	952.4
77.5°	873.0	902.8	957.3	982.1	937.5	882.9	833.3	744.0	659.7	605.2	590.3
80°	610.1	630.0	669.6	669.6	669.6	644.8	580.4	491.1	436.5	386.9	377.0
82.5°	426.6	446.4	486.1	466.3	461.3	431.5	391.9	322.4	262.9	228.2	218.3
85°	148.8	163.7	198.4	238.1	253.0	248.0	223.2	178.6	138.9	114.1	104.2
87.5°	34.7	34.7	39.7	34.7	34.7	39.7	34.7	34.7	34.7	24.8	19.8
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)