

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: P531600

Luminaire Tested: **GALN-SA6D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531600  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29438 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

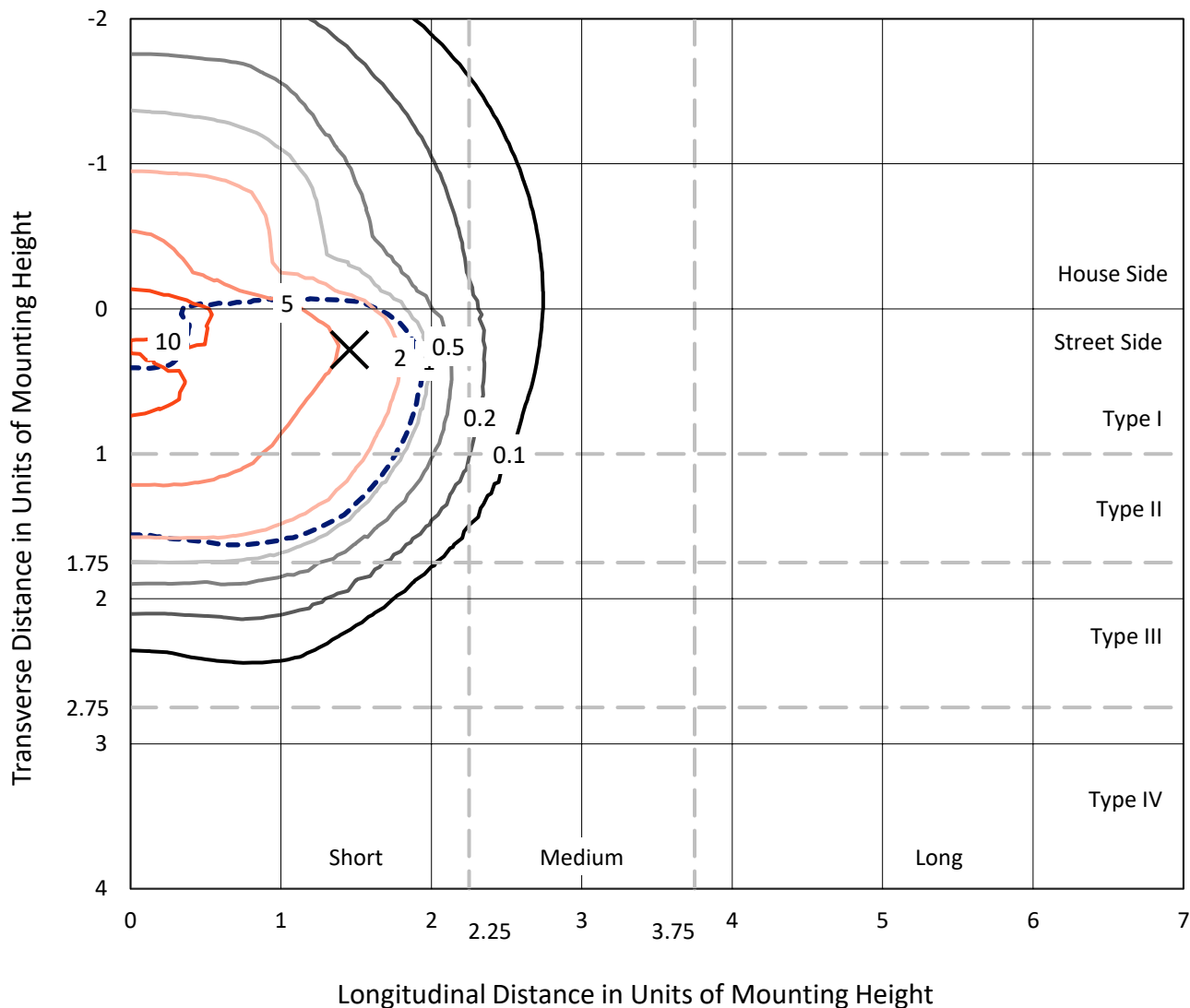
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

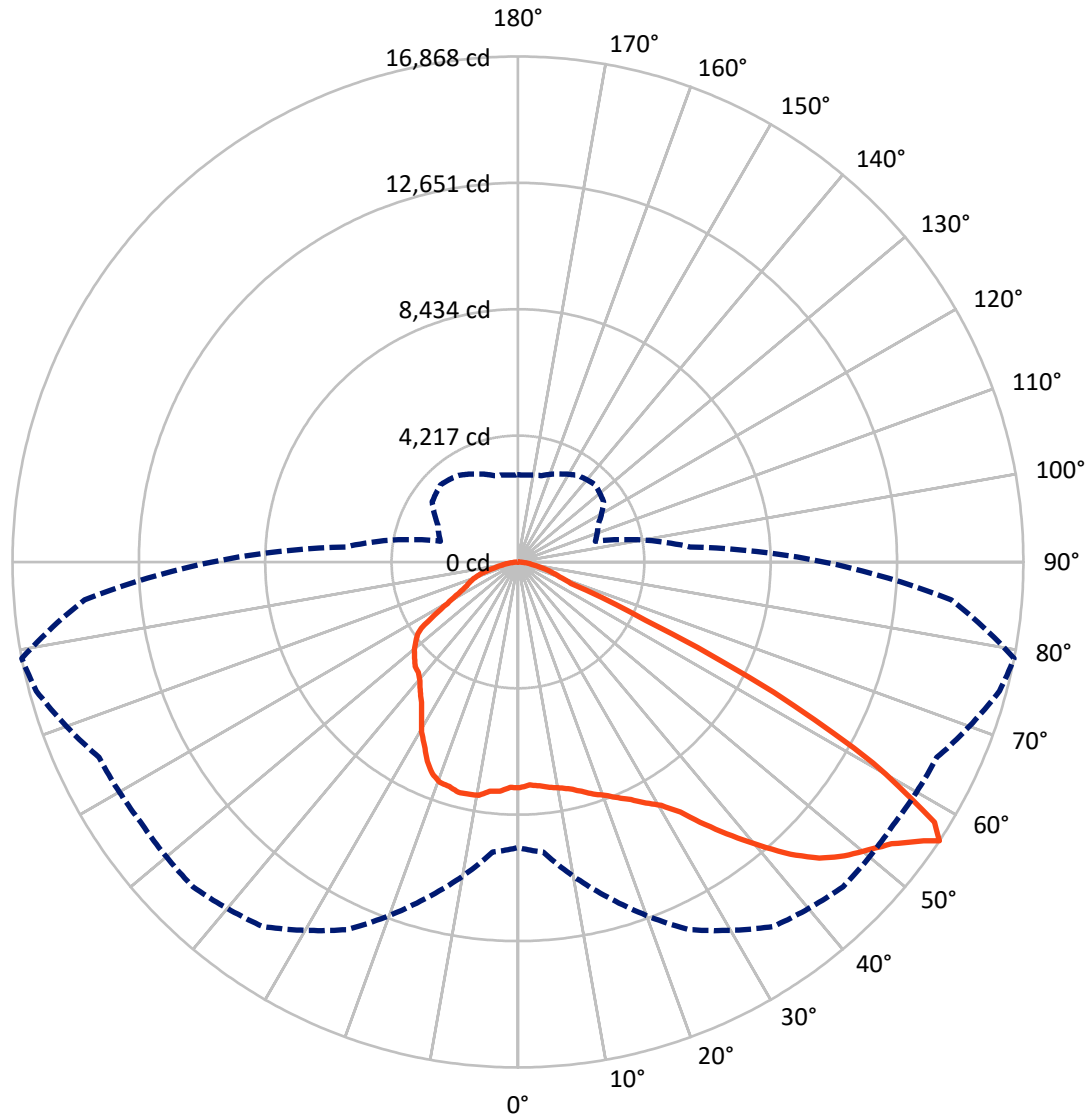
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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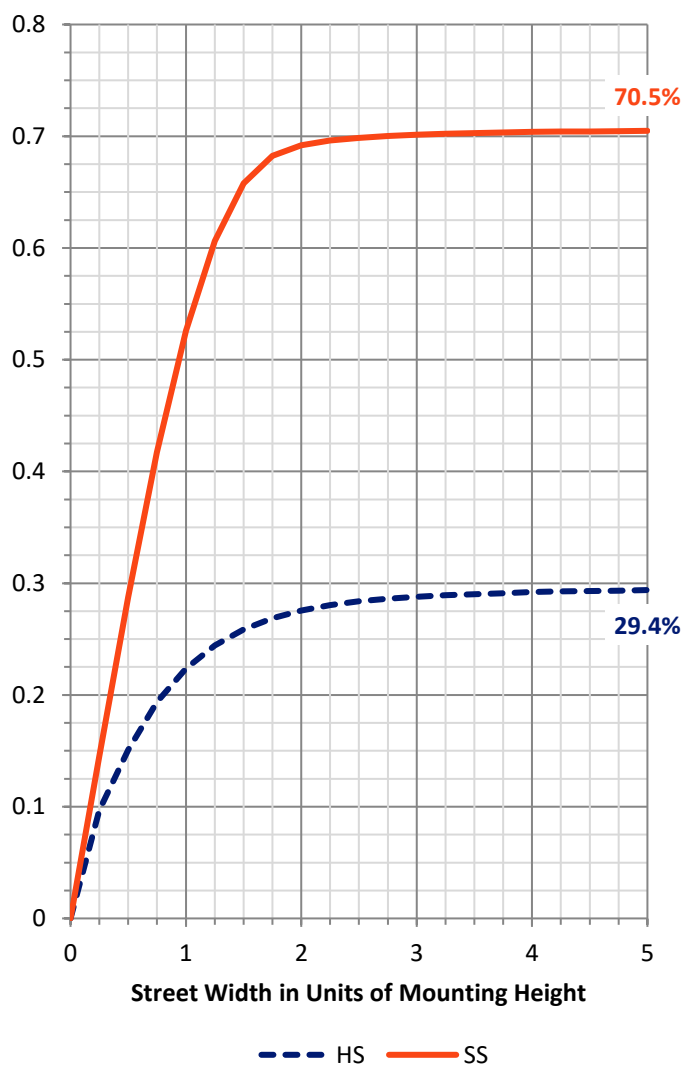
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8693.7	0.0	8693.7
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	20744.3	0.0	20744.3
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	29438.0	0.0	29438.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.8	2.3
10°-20°	1874.1	6.4
20°-30°	3206.3	10.9
30°-40°	4914.0	16.7
40°-50°	6641.2	22.6
50°-60°	7627.7	25.9
60°-70°	3476.9	11.8
70°-80°	857.2	2.9
80°-90°	155.8	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°	29438.0	100.0
0°-180°	29438.0	100.0

**Coefficient of Utilization**



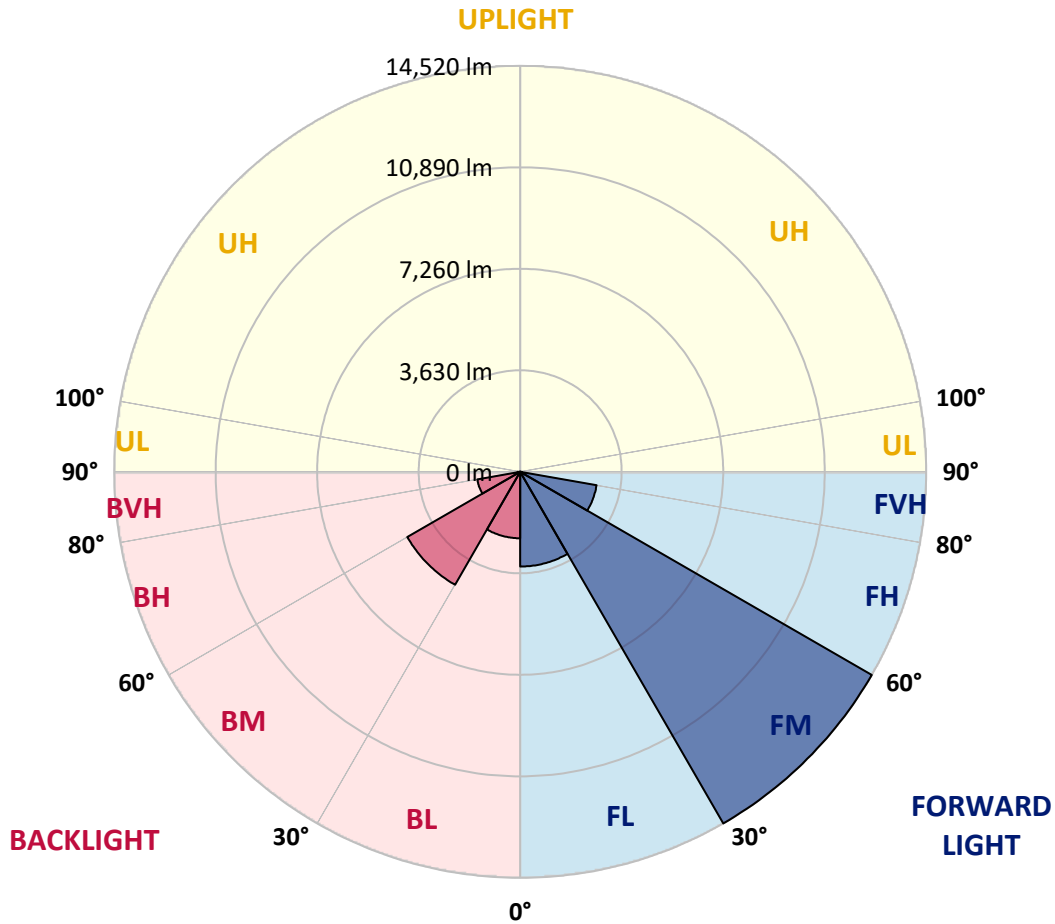
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3387.1	11.5			
FM (30°-60°)	14519.7	49.3			
FH (60°-80°)	2775.3	9.4			G2/5000
FVH (80°-90°)	62.2	0.2			G1/100
BL (0°-30°)	2378.1	8.1	B3/2500		
BM (30°-60°)	4663.2	15.8	B3/5000		
BH (60°-80°)	1558.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0
2.5°	7165.3	7147.0	7191.0	7224.0	7264.3	7315.7	7341.3	7356.0	7484.3	7451.3	7550.4
5°	7011.3	6963.6	6996.6	7022.3	7092.0	7154.3	7224.0	7334.0	7451.3	7502.7	7623.7
7.5°	6875.6	6850.0	6842.6	6861.0	6956.3	7037.0	7158.0	7319.3	7510.0	7594.4	7664.0
10°	6651.9	6615.3	6670.3	6791.3	6817.0	6985.6	7125.0	7356.0	7521.0	7667.7	7873.0
12.5°	6552.9	6516.3	6527.3	6596.9	6776.6	6938.0	7103.0	7363.3	7711.7	7770.4	8045.4
15°	6710.6	6673.9	6684.9	6666.6	6839.0	6923.3	7183.7	7510.0	7843.7	7942.7	8236.1
17.5°	7070.0	7073.6	7026.0	6985.6	6945.3	7125.0	7304.7	7598.0	7895.1	8144.4	8364.4
20°	7755.7	7634.7	7539.4	7312.0	7249.7	7326.7	7554.0	7836.4	8104.1	8309.4	8558.8
22.5°	8283.8	8294.8	8159.1	7785.0	7649.4	7682.4	7876.7	8107.7	8401.1	8547.8	8833.8
25°	9050.2	8973.1	8826.5	8529.4	8225.1	8250.8	8393.8	8602.8	8683.5	8786.1	9097.8
27.5°	9750.6	9772.6	9482.9	9204.2	8826.5	8753.1	9009.8	9046.5	8910.8	9105.2	9211.5
30°	10462.0	10443.6	10252.9	9926.6	9556.2	9570.9	9684.5	9504.9	9317.8	9424.2	9497.5
32.5°	11199.0	10990.0	10982.7	10689.3	10406.9	10271.3	10131.9	10219.9	9930.2	9952.2	9882.6
35°	11789.4	11818.7	11650.1	11441.0	11301.7	11063.3	10682.0	10839.7	10784.6	10759.0	10458.3
37.5°	12218.4	12104.8	12189.1	12119.4	11987.4	11690.4	11294.4	11444.7	11470.4	11595.1	11246.7
40°	12570.5	12522.8	12746.5	12783.2	12691.5	12049.8	11338.4	11785.7	12170.8	12442.1	12027.8
42.5°	12739.2	12841.8	13076.5	13358.9	13153.5	12467.8	11565.7	12046.1	12904.2	13333.2	12768.5
45°	12966.5	12834.5	13182.9	13699.9	13703.6	12819.8	11785.7	12398.1	13476.2	14099.6	13274.5
47.5°	12735.5	12801.5	13160.9	13817.3	13985.9	13190.2	12379.8	12896.8	14106.9	14660.7	13743.9
50°	12218.4	12350.5	13006.8	13688.9	14198.6	13582.6	13061.9	13435.9	14690.0	15111.7	13820.9
52.5°	11679.4	11752.7	12779.5	13787.9	14294.0	14088.6	13974.9	14180.3	15401.4	15621.4	13916.3
55°	10212.6	10561.0	12027.8	13743.9	14759.7	15001.7	14913.7	15214.4	16208.1	16428.2	14437.0
56°	9534.2	9717.6	11576.7	13538.6	14851.4	15335.4	15291.4	15427.1	16637.2	16868.2	14517.7
57.5°	8280.1	8294.8	9871.6	12629.1	14506.7	15434.4	15390.4	15496.7	16552.8	16395.2	13809.9
60°	5181.5	5408.8	6717.9	9713.9	12335.8	14319.6	14569.0	13714.6	13956.6	13622.9	10744.3
62.5°	2684.2	2651.2	3520.3	5680.2	8188.4	10252.9	10484.0	10443.6	10069.6	9581.9	7018.6
65°	1338.5	1345.8	1840.8	2812.6	4195.0	5368.5	6013.9	6083.6	5089.8	4682.8	3329.6
67.5°	971.8	1008.4	1323.8	1719.8	1976.5	2211.2	2709.9	2658.6	2013.2	1914.2	1774.8
70°	755.4	788.4	1074.4	1312.8	1191.8	1191.8	1298.1	1342.1	1433.8	1474.1	1521.8
72.5°	550.1	575.7	821.4	905.7	781.1	839.7	971.8	1074.4	1169.8	1184.4	1239.4
75°	377.7	399.7	539.0	498.7	469.4	579.4	711.4	806.7	876.4	913.1	946.1
77.5°	245.7	253.0	308.0	260.4	300.7	374.0	462.0	542.7	612.4	641.7	649.1
80°	110.0	121.0	132.0	165.0	209.0	267.7	330.0	396.0	440.0	451.0	473.0
82.5°	62.3	62.3	80.7	117.3	154.0	194.4	238.4	286.0	337.4	348.4	344.7
85°	33.0	33.0	47.7	69.7	95.3	113.7	110.0	113.7	121.0	139.3	135.7
87.5°	11.0	11.0	14.7	14.7	18.3	22.0	18.3	25.7	33.0	33.0	33.0
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°	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0	7532.0
2.5°	7521.0	7554.0	7510.0	7605.4	7605.4	7587.0	7495.3	7524.7	7546.7	7546.7	7565.0
5°	7664.0	7653.0	7682.4	7568.7	7499.0	7473.3	7323.0	7249.7	7187.3	7183.7	7128.6
7.5°	7744.7	7715.4	7704.4	7620.0	7312.0	7125.0	6802.3	6615.3	6574.9	6431.9	6486.9
10°	7873.0	7928.1	7873.0	7414.7	6985.6	6556.6	6241.2	5951.5	5837.9	5746.2	5691.2
12.5°	8137.1	8111.4	7792.4	7172.7	6571.3	6061.6	5592.2	5287.8	5174.1	5093.5	5086.1
15°	8360.8	8232.4	7744.7	6791.3	5925.9	5383.2	4998.1	4781.8	4730.4	4737.8	4770.8
17.5°	8437.8	8349.8	7495.3	6395.2	5445.5	4807.4	4627.8	4594.8	4642.4	4697.4	4712.1
20°	8558.8	8419.4	7392.7	5856.2	4851.4	4448.1	4437.1	4554.4	4642.4	4723.1	4734.1
22.5°	8811.8	8459.8	7059.0	5346.5	4444.4	4341.7	4448.1	4547.1	4682.8	4748.8	4690.1
25°	8885.1	8371.8	6589.6	4734.1	4187.7	4275.7	4389.4	4525.1	4620.4	4657.1	4682.8
27.5°	8947.5	8236.1	5955.2	4327.1	4107.0	4272.1	4389.4	4503.1	4554.4	4587.4	4616.8
30°	9123.5	8195.7	5405.2	4055.7	4055.7	4198.7	4349.1	4378.4	4448.1	4488.4	4539.7
32.5°	9211.5	7917.1	4840.4	3883.4	4004.4	4235.4	4246.4	4301.4	4305.1	4338.1	4283.1
35°	9442.5	7719.0	4316.1	3758.7	4026.4	4198.7	4253.7	4220.7	4041.0	3953.0	3971.4
37.5°	9611.2	7620.0	3938.4	3744.0	4030.0	4239.1	4268.4	4019.0	3832.0	3685.3	3722.0
40°	10065.9	7374.3	3652.3	3718.3	4063.0	4283.1	4202.4	3931.0	3593.7	3443.3	3417.6
42.5°	10414.3	7198.3	3472.6	3689.0	4088.7	4345.4	4169.4	3755.0	3410.3	3271.0	3307.6
45°	10817.7	7158.0	3377.3	3696.3	4132.7	4378.4	4129.0	3619.3	3252.6	3197.6	3186.6
47.5°	10960.7	6868.3	3274.6	3634.0	4121.7	4367.4	3993.4	3516.7	3194.0	3201.3	3230.6
50°	10722.3	6571.3	3197.6	3505.7	4048.4	4268.4	3780.7	3381.0	3161.0	3252.6	3304.0
52.5°	10417.9	6266.9	3039.9	3333.3	3898.0	4114.4	3681.7	3373.6	3128.0	3098.6	3109.6
55°	10509.6	6017.5	2819.9	3098.6	3656.0	3828.3	3571.7	3304.0	3047.3	2937.3	2973.9
56°	10212.6	5760.9	2676.9	2951.9	3491.0	3645.0	3516.7	3241.6	2981.3	2907.9	2907.9
57.5°	9372.9	4899.1	2489.9	2717.2	3142.6	3326.0	3410.3	3205.0	2907.9	2779.6	2783.3
60°	6912.3	3483.7	2233.2	2394.6	2603.6	2750.3	3142.6	3102.3	2724.6	2636.6	2603.6
62.5°	4261.1	2544.9	2049.9	2112.2	2218.5	2339.5	2742.9	2808.9	2530.2	2434.9	2412.9
65°	2387.2	1947.2	1910.5	1936.2	1987.5	2049.9	2277.2	2423.9	2233.2	2086.5	2079.2
67.5°	1745.5	1741.8	1771.2	1793.2	1815.2	1815.2	1870.2	1928.8	1903.2	1785.8	1774.8
70°	1551.1	1562.1	1584.1	1587.8	1595.1	1569.5	1525.5	1507.1	1536.5	1463.1	1448.5
72.5°	1279.8	1316.5	1342.1	1345.8	1305.5	1272.4	1213.8	1151.4	1129.4	1114.8	1111.1
75°	982.8	1008.4	1019.4	1015.8	1001.1	953.4	883.7	821.4	781.1	737.1	759.1
77.5°	663.7	700.4	718.7	718.7	696.7	623.4	590.4	542.7	502.4	454.7	462.0
80°	465.7	491.4	520.7	517.0	480.4	443.7	396.0	352.0	319.0	282.4	278.7
82.5°	348.4	363.0	377.7	370.4	344.7	308.0	275.0	234.7	198.0	172.3	172.3
85°	124.7	135.7	165.0	172.3	187.0	187.0	157.7	132.0	106.3	88.0	88.0
87.5°	36.7	36.7	40.3	40.3	36.7	40.3	33.0	36.7	40.3	25.7	25.7
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)