

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: P647677

Luminaire Tested: **GALN-SA9D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48254 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

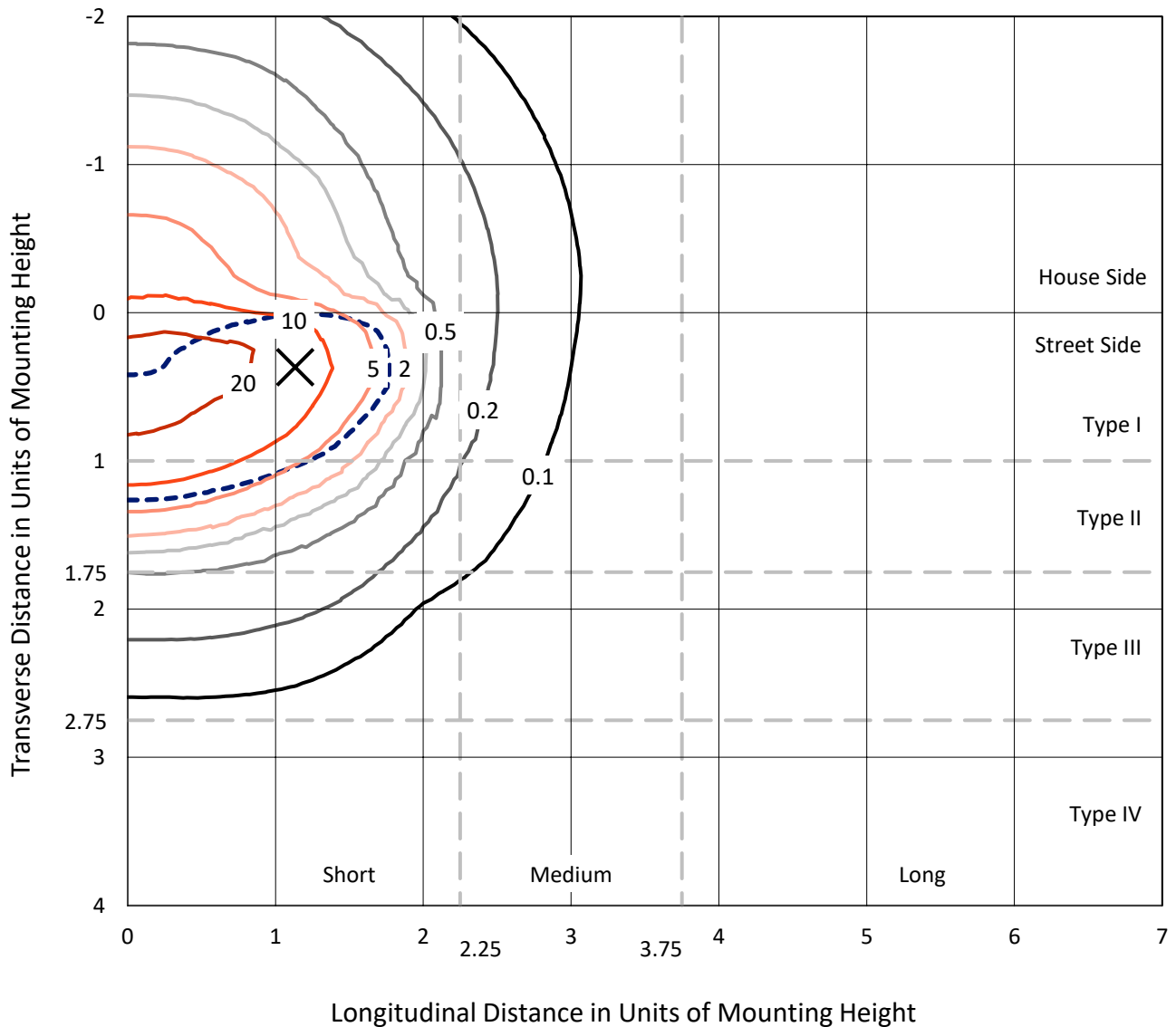
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

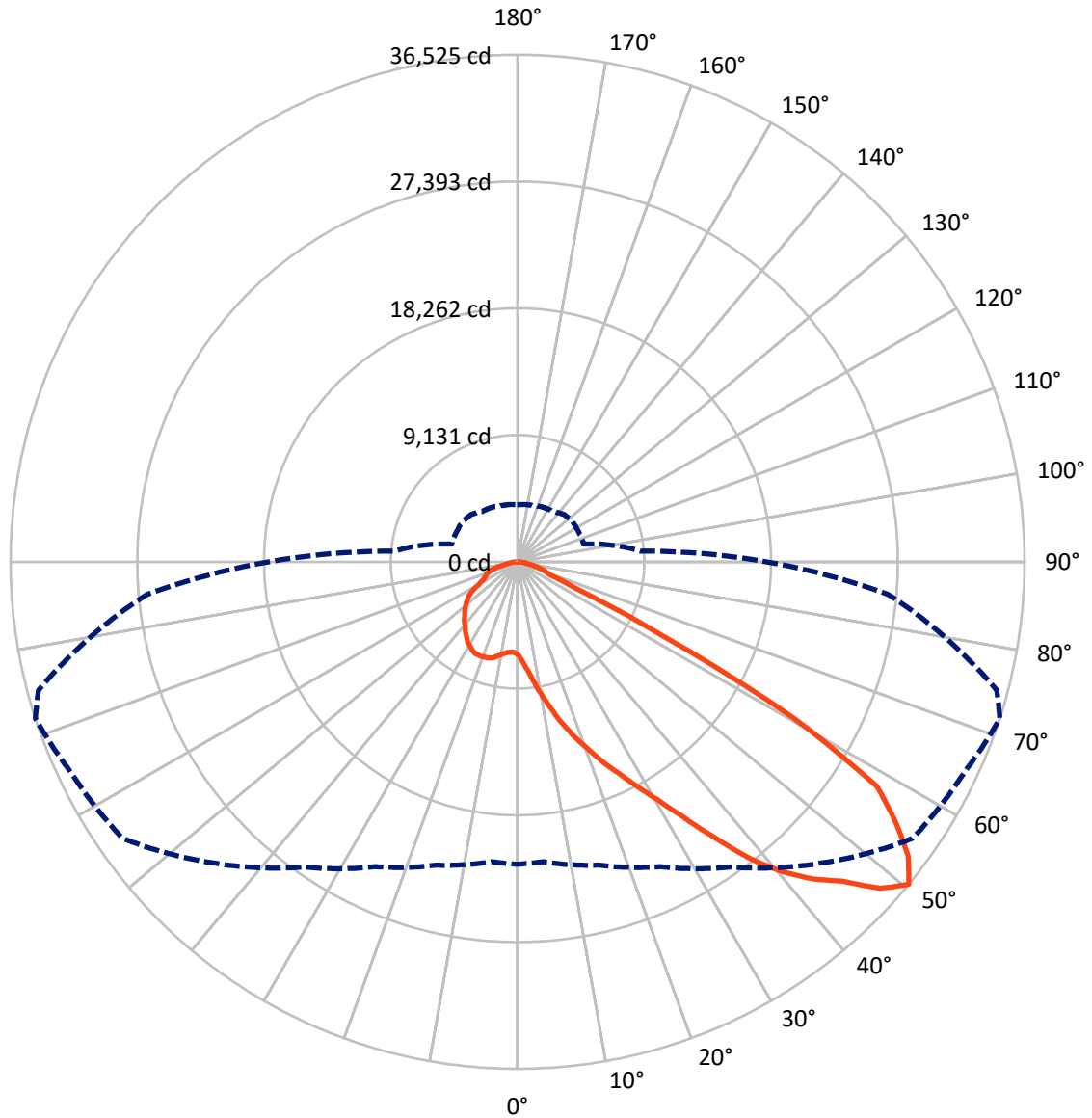
✕ Max cd  
 - - - 1/2 Max cd



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 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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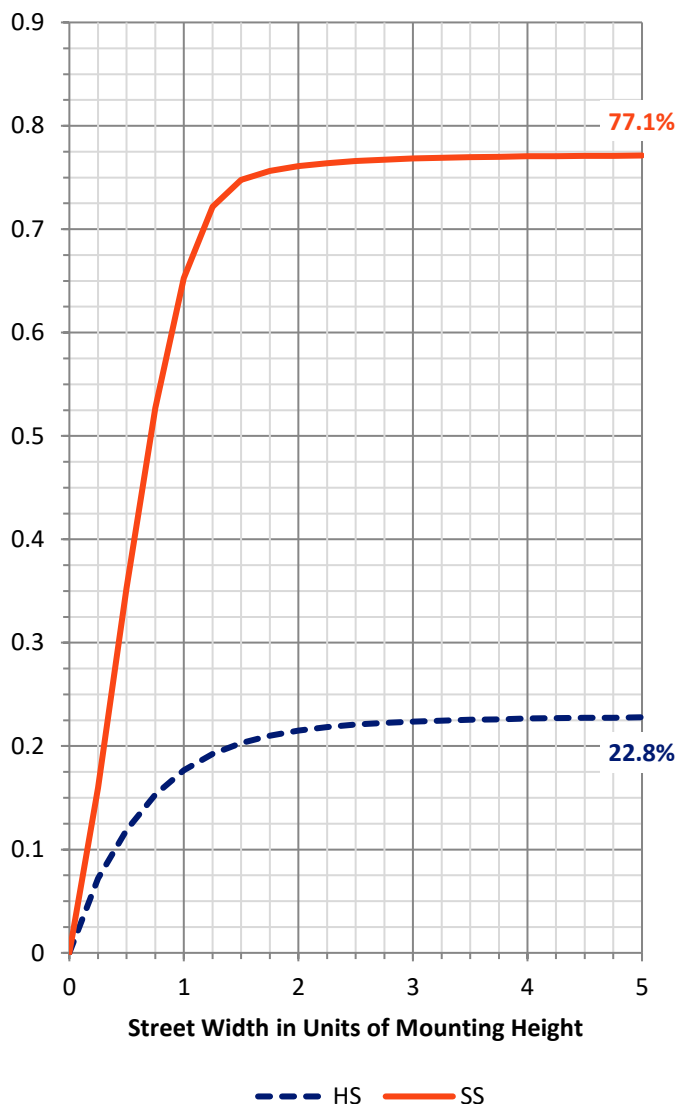
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11055.3	0.0	11055.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	37198.7	0.0	37198.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	48254.0	0.0	48254.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	790.1	1.6
10°-20°	2953.8	6.1
20°-30°	5727.2	11.9
30°-40°	9488.0	19.7
40°-50°	13275.7	27.5
50°-60°	11199.8	23.2
60°-70°	3413.7	7.1
70°-80°	1197.6	2.5
80°-90°	208.2	0.4
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°	48254.0	100.0
0°-180°	48254.0	100.0

**Coefficient of Utilization**

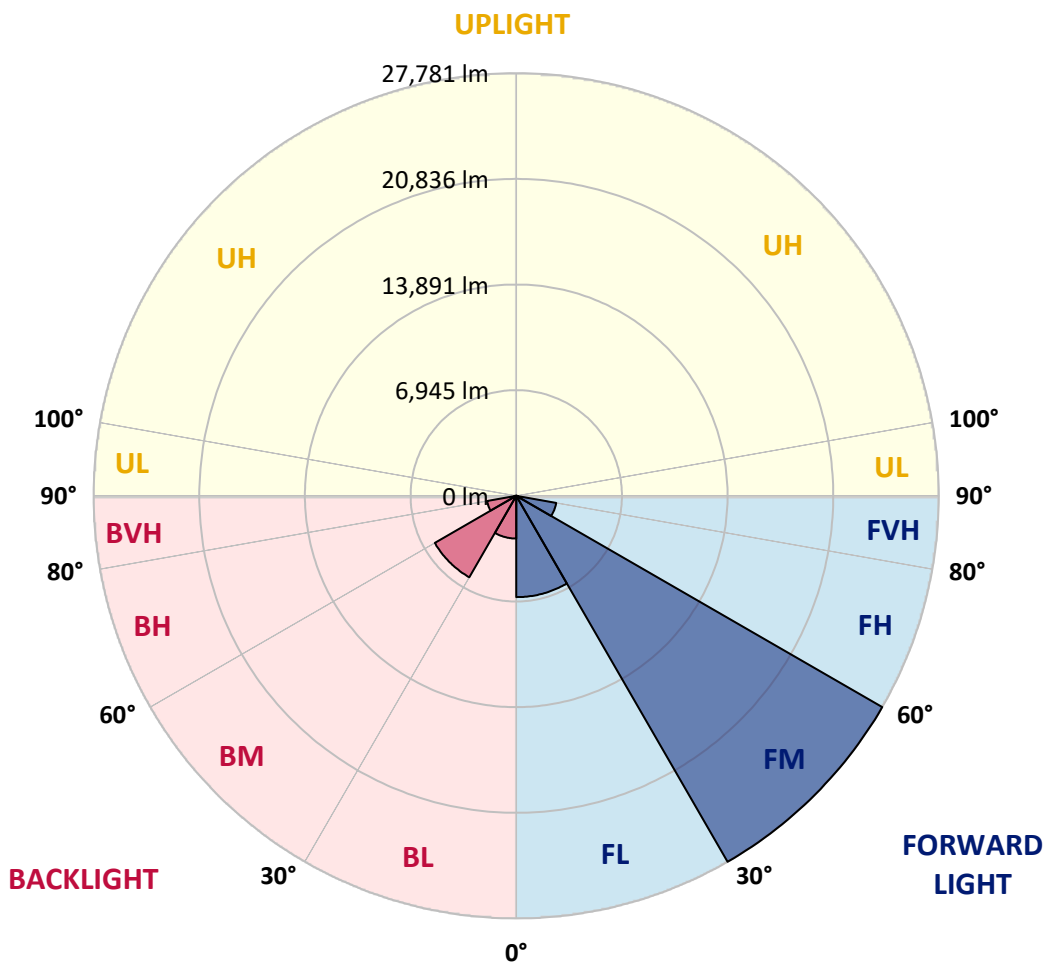


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6660.8	13.8			
FM (30°-60°)	27781.1	57.6			
FH (60°-80°)	2663.5	5.5			G2/5000
FVH (80°-90°)	93.3	0.2			G1/100
BL (0°-30°)	2810.3	5.8	B4/5000		
BM (30°-60°)	6182.3	12.8	B4/8500		
BH (60°-80°)	1947.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	115.0	0.2			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°	55°	65°	72°	75°	85°
0°	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4
2.5°	8640.0	8586.3	8425.1	8371.3	8180.2	7833.9	7714.5	7362.2	7212.9	7075.7	6914.4
5°	10926.9	10676.1	10658.2	10353.7	9911.8	9655.1	8890.8	8377.3	7905.6	7666.7	7224.9
7.5°	12383.8	12389.8	12389.8	12139.0	11786.7	11135.9	10449.2	9523.7	8813.2	8460.9	7708.6
10°	13769.1	13649.6	13584.0	13560.1	13321.3	12688.4	11953.9	10807.5	9834.2	9422.2	8072.8
12.5°	14748.4	14646.8	14796.1	14718.5	14545.3	14133.3	13440.7	12133.1	10914.9	10359.6	8657.9
15°	15214.1	15285.7	15405.1	15620.1	15542.5	15387.2	14622.9	13494.5	12079.3	11452.3	9177.4
17.5°	15930.6	15733.5	15876.9	16145.5	16360.5	16288.8	15852.9	14479.6	13231.7	12461.4	9876.0
20°	16432.2	16318.7	16390.4	16700.8	16862.1	17268.1	17041.2	15769.4	14336.3	13524.3	10700.0
22.5°	17865.2	17698.0	17465.1	17512.9	17572.6	17859.2	17912.9	17184.5	15620.1	14760.3	11482.2
25°	19632.6	19477.4	19202.7	18922.1	18748.9	18695.1	18880.2	18295.1	16850.2	15960.4	12324.1
27.5°	21579.2	21316.4	21143.3	20564.1	20098.4	20026.7	19937.1	19620.6	18307.0	17345.7	13273.5
30°	23471.9	23262.9	23030.1	22104.6	21621.0	21543.3	21101.5	21191.0	19889.4	18820.6	14348.3
32.5°	24905.0	24922.9	24391.5	23692.9	23239.0	22827.1	22665.9	22922.6	21919.5	21059.6	15548.4
35°	26063.3	26117.1	25609.6	24976.6	24487.0	24773.7	24702.0	24821.4	24343.7	23292.8	16945.7
37.5°	27191.9	26923.1	26379.8	26075.3	25818.6	26290.2	26899.3	27000.8	27090.4	25854.3	18569.8
40°	27377.0	27400.9	27084.4	27299.4	26976.9	27687.4	29102.6	28971.2	29335.5	28254.7	20331.2
42.5°	27114.3	27168.0	27293.3	27597.9	28374.1	29228.0	31329.8	30792.4	31234.3	30272.9	22044.9
45°	26684.3	26463.4	26618.6	27777.0	29120.5	31019.2	33365.9	32947.9	32804.6	31998.5	24087.0
47.5°	24630.3	24857.2	25340.9	26768.0	28786.1	31329.8	34810.8	34715.3	35145.2	34578.0	25943.9
50°	21782.2	21692.6	22624.1	24230.2	26833.6	30720.7	34733.3	35599.0	36524.5	35736.4	26773.9
52.5°	16312.7	16790.4	17590.6	19584.9	23298.8	27400.9	33037.4	34482.5	35234.8	35067.6	26105.1
55°	10311.9	10455.2	10938.8	13309.4	16653.1	21991.2	28320.4	31670.1	33013.6	33640.6	25490.2
57.5°	5009.6	4741.0	5332.1	7236.8	9619.2	14790.2	21841.9	27586.0	30505.8	31640.2	24152.7
60°	2615.3	2716.8	2949.6	3630.4	4973.9	7678.7	13613.9	18384.7	22845.0	24588.5	18307.0
62.5°	2167.5	2203.3	2358.6	2698.9	3307.9	4418.5	6950.2	8962.5	11649.4	13219.8	10413.4
65°	1839.0	1857.0	2024.1	2251.0	2639.2	3110.9	3576.6	3743.8	4532.0	4651.4	3702.0
67.5°	1534.5	1552.5	1731.6	1946.5	2197.3	2322.7	2442.1	2430.2	2519.8	2483.9	2478.0
70°	1182.3	1200.2	1385.3	1612.2	1737.6	1665.9	2036.1	2119.7	2155.5	2185.4	2233.1
72.5°	853.9	889.6	1033.0	1194.2	1128.5	1295.7	1677.8	1803.2	1851.0	1868.9	1928.6
75°	621.0	632.9	668.8	621.0	716.5	901.6	1182.3	1337.5	1397.2	1415.1	1504.7
77.5°	274.7	280.6	286.6	358.2	459.8	561.3	704.5	830.0	913.5	937.4	961.4
80°	143.3	149.2	185.1	244.8	328.4	412.0	513.5	585.1	638.9	644.9	668.8
82.5°	89.6	95.5	131.4	173.1	232.9	304.5	376.2	435.9	477.7	483.7	489.6
85°	41.8	53.7	77.6	107.5	155.3	197.1	203.0	173.1	185.1	191.1	179.2
87.5°	12.0	17.9	23.9	17.9	23.9	23.9	29.8	35.9	35.9	35.9	41.8
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°	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4	6717.4
2.5°	6824.9	6771.1	6562.1	6484.5	6281.5	6317.3	6209.8	6203.9	6180.0	6174.0	6168.0
5°	6992.0	6824.9	6574.1	6383.0	6269.6	6257.6	6180.0	6180.0	6203.9	6221.8	6180.0
7.5°	7266.7	7075.7	6651.7	6472.5	6371.0	6353.1	6299.4	6257.6	6311.4	6293.4	6245.7
10°	7583.1	7248.8	6801.0	6645.7	6478.5	6436.7	6436.7	6454.7	6365.1	6394.9	6347.2
12.5°	7935.5	7487.6	6992.0	6812.9	6615.9	6592.0	6580.0	6448.6	6496.5	6472.5	6353.1
15°	8383.3	7762.3	7236.8	6932.3	6765.1	6657.6	6502.4	6478.5	6448.6	6389.0	6335.3
17.5°	8866.9	8060.8	7350.3	6968.2	6717.4	6639.8	6520.4	6394.9	6305.3	6317.3	6275.5
20°	9278.9	8335.5	7392.1	7003.9	6681.5	6532.3	6347.2	6269.6	6174.0	6168.0	6162.1
22.5°	9768.6	8705.7	7451.8	6908.4	6574.1	6418.8	6293.4	6156.1	6090.4	6006.8	6048.6
25°	10353.7	8849.0	7463.7	6854.7	6496.5	6221.8	6156.1	6006.8	5982.9	5863.5	5887.4
27.5°	10777.6	8926.6	7368.2	6687.5	6317.3	6108.3	5988.9	5881.4	5839.6	5750.0	5726.2
30°	11344.9	9046.1	7165.2	6478.5	6138.2	5905.3	5833.7	5809.8	5690.4	5594.8	5582.9
32.5°	11989.8	9123.7	7033.8	6263.5	5953.1	5773.9	5809.8	5696.3	5547.1	5463.5	5439.6
35°	12503.3	9153.5	6705.5	6018.8	5827.7	5714.3	5672.4	5648.6	5433.6	5356.0	5296.3
37.5°	13285.5	9087.8	6430.8	5845.6	5690.4	5648.6	5612.7	5451.5	5206.7	5093.3	5009.6
40°	14199.0	9070.0	6078.4	5600.8	5559.0	5606.7	5499.2	5248.5	4908.2	4782.8	4723.1
42.5°	15076.7	9195.3	5857.5	5469.4	5415.7	5433.6	5284.3	4908.2	4741.0	4669.3	4573.7
45°	16545.6	9458.0	5493.3	5266.4	5242.5	5230.6	5051.4	4657.4	4561.8	4472.3	4454.3
47.5°	17871.2	9284.9	5260.4	5057.4	5081.3	5015.7	4633.5	4508.1	4400.6	4311.0	4281.2
50°	17948.8	8872.9	4932.0	4896.2	4902.2	4788.7	4424.5	4340.9	4203.6	4143.9	4102.1
52.5°	17542.7	8198.2	4627.5	4639.4	4657.4	4472.3	4167.8	4108.0	3994.6	3911.0	3887.1
55°	16402.3	7147.3	4329.0	4376.7	4424.5	4072.2	3976.7	3827.4	3737.8	3618.4	3624.4
57.5°	14449.8	5756.1	3911.0	3988.6	4090.2	3702.0	3630.4	3445.3	3313.9	3218.4	3206.4
60°	9684.9	4096.1	3284.1	3313.9	3540.8	3385.5	3379.6	3194.5	3015.3	2931.8	2884.0
62.5°	5714.3	3128.8	2836.2	2806.4	2800.4	2890.0	3039.2	2973.5	2740.7	2579.4	2627.2
65°	2991.5	2704.9	2639.2	2537.7	2478.0	2454.1	2567.5	2597.4	2442.1	2269.0	2257.0
67.5°	2513.8	2513.8	2460.0	2424.2	2340.6	2239.1	2167.5	2071.9	2048.0	2000.3	1940.6
70°	2286.9	2346.6	2328.7	2245.1	2173.5	2060.0	1874.9	1719.6	1570.4	1516.6	1552.5
72.5°	1994.3	2054.0	2054.0	2012.2	1916.7	1743.5	1564.4	1385.3	1259.8	1164.3	1152.4
75°	1534.5	1564.4	1636.1	1588.3	1462.9	1355.5	1170.4	985.2	865.8	776.3	758.3
77.5°	979.2	1027.0	1027.0	1021.0	931.5	830.0	710.6	579.2	489.6	423.9	406.1
80°	650.8	680.7	704.5	680.7	621.0	543.3	453.8	364.3	298.6	244.8	232.9
82.5°	477.7	513.5	531.4	507.5	447.8	388.1	322.4	256.7	191.1	149.2	137.3
85°	185.1	191.1	214.9	256.7	250.8	244.8	197.1	143.3	107.5	77.6	71.6
87.5°	47.8	41.8	47.8	47.8	41.8	35.9	35.9	35.9	35.9	17.9	23.9
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)