

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: P533469

Luminaire Tested: **GALN-SA8D-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27423 lumens  
Efficiency: N/A  
Efficacy: 55.6 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

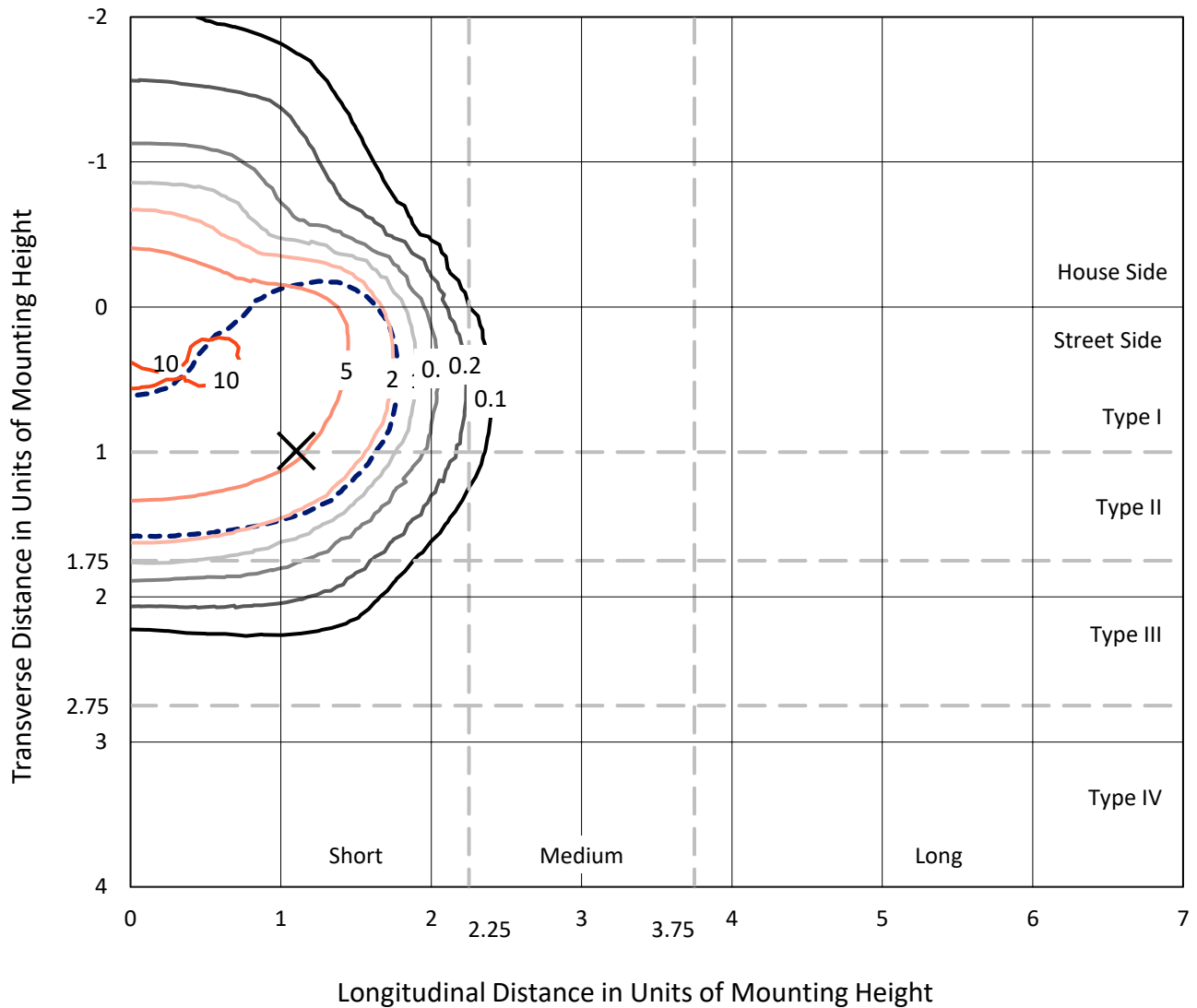
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

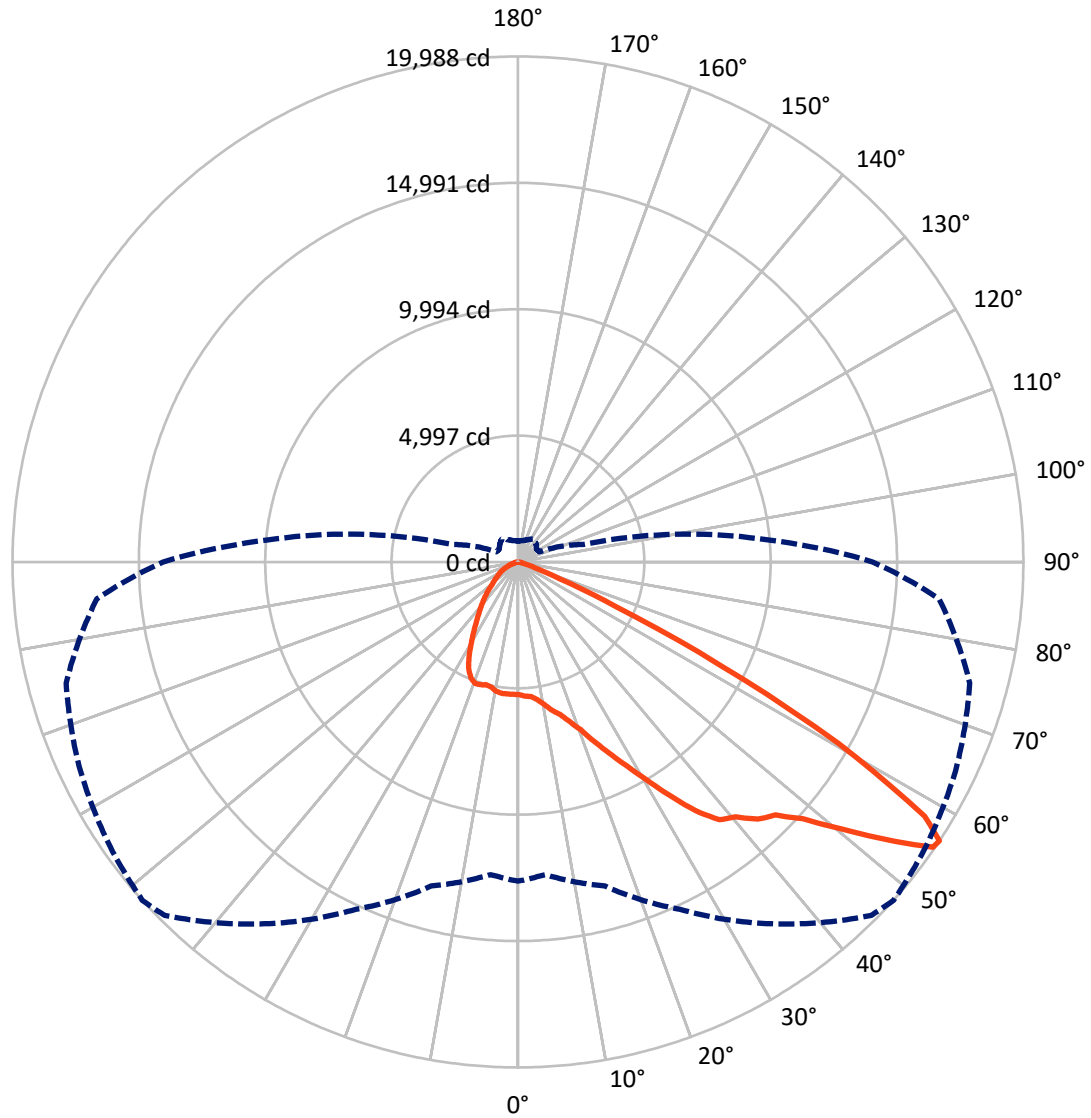
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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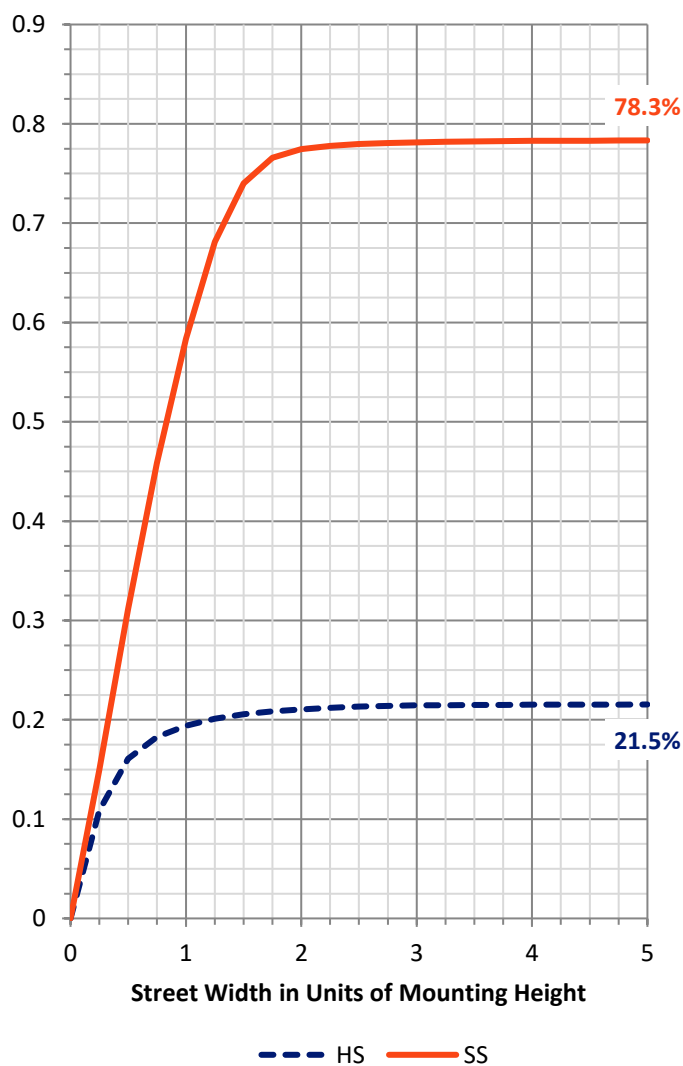
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5964.0	0.0	5964.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	21459.0	0.0	21459.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	27423.0	0.0	27423.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.2	1.9
10°-20°	1630.6	5.9
20°-30°	2957.5	10.8
30°-40°	4645.7	16.9
40°-50°	6777.2	24.7
50°-60°	8165.2	29.8
60°-70°	2390.7	8.7
70°-80°	303.3	1.1
80°-90°	42.5	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°	27423.0	100.0
0°-180°	27423.0	100.0

**Coefficient of Utilization**

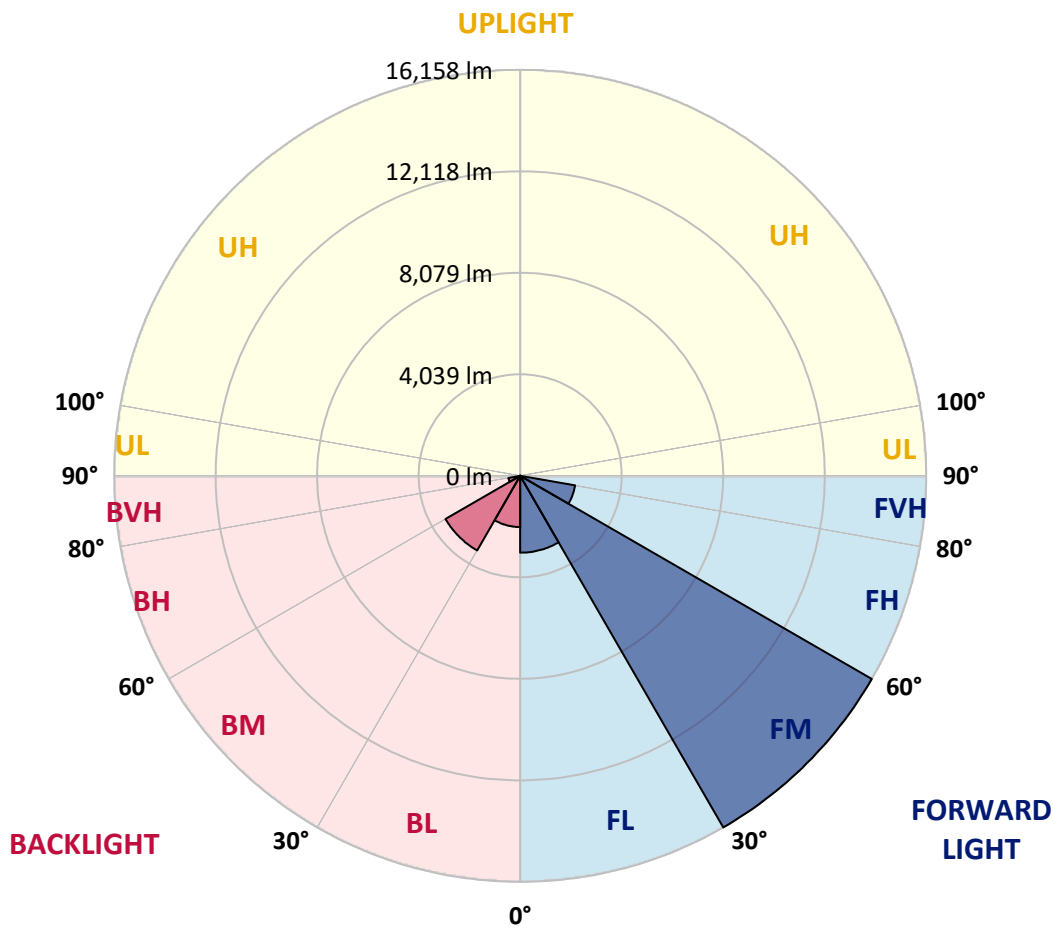


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3059.9	11.2			
FM (30°-60°)	16157.7	58.9			
FH (60°-80°)	2220.1	8.1			G2/5000
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	2038.5	7.4	B3/2500		
BM (30°-60°)	3430.5	12.5	B3/5000		
BH (60°-80°)	473.9	1.7	B1/500		G1/500
BVH (80°-90°)	21.2	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°	48°	55°	65°	75°	85°
0°	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8
2.5°	5332.7	5307.7	5307.7	5267.8	5312.7	5292.7	5307.7	5257.8	5307.7	5232.8	5292.7
5°	5357.6	5362.6	5342.7	5367.6	5367.6	5397.6	5347.7	5392.6	5417.6	5362.6	5337.7
7.5°	5487.5	5497.4	5492.5	5472.5	5512.4	5507.4	5502.4	5467.5	5477.5	5457.5	5427.5
10°	5742.1	5737.1	5762.1	5712.2	5682.2	5717.1	5727.1	5672.2	5632.3	5617.3	5522.4
12.5°	6111.6	6051.7	6016.7	5966.8	5981.8	5931.9	6021.7	5926.9	5906.9	5817.0	5722.1
15°	6411.2	6401.2	6406.2	6326.3	6236.4	6256.4	6256.4	6206.5	6176.5	6066.7	5931.9
17.5°	7025.3	6815.6	6860.6	6760.7	6685.8	6680.8	6635.9	6645.9	6566.0	6336.3	6131.6
20°	7504.7	7414.8	7344.9	7175.1	7060.3	7095.3	7075.3	7025.3	7000.4	6700.8	6411.2
22.5°	7934.1	7964.1	7849.2	7804.3	7644.5	7659.5	7699.4	7654.5	7464.7	7155.2	6725.8
25°	8538.3	8503.3	8348.5	8293.6	8143.8	8198.7	8353.5	8318.6	8198.7	7639.5	6970.4
27.5°	9252.3	9132.5	9162.4	8912.8	8768.0	8922.7	9107.5	9282.2	8942.7	8208.7	7260.0
30°	9756.6	9631.8	9621.8	9611.8	9576.8	9756.6	9971.3	10131.1	9856.5	8777.9	7739.4
32.5°	10006.3	10036.2	10121.1	10091.1	10395.7	10765.2	10989.9	11219.6	10875.1	9706.7	8373.5
35°	10670.3	10480.6	10670.3	10690.3	11004.9	11788.8	12073.4	12622.7	12537.8	11019.9	9147.4
37.5°	11059.8	11044.8	11069.8	11259.5	11564.1	12532.8	12937.2	13361.6	13201.9	11808.8	10111.1
40°	11703.9	11743.9	11738.9	11883.7	12218.2	13092.0	13256.8	13601.3	13616.3	12902.3	11529.2
42.5°	12737.5	12577.7	12472.9	12622.7	13092.0	13576.4	13905.9	13836.0	14330.3	14230.5	13351.7
45°	13666.2	13761.1	13606.3	13856.0	14025.7	14285.4	14275.4	14425.2	15054.3	15528.7	14724.8
47.5°	14535.0	14595.0	14669.8	14839.6	15209.1	15249.1	15164.2	15099.3	15968.1	16457.4	15788.3
50°	15054.3	15109.2	15458.8	15763.3	16452.4	16542.3	16592.2	16427.4	17016.6	17071.5	16791.9
52.5°	14914.5	14974.4	15463.8	16467.4	17565.9	18389.7	18239.9	17960.3	17925.4	18140.1	17720.7
55°	13676.2	13621.3	14295.4	15858.2	17915.4	19892.7	19912.6	19618.1	19053.8	18909.0	17580.8
56°	12622.7	12408.0	13266.8	15154.2	17466.0	19762.9	19987.5	19673.0	19143.7	18494.6	16717.0
57.5°	10340.8	10545.5	11399.3	12962.2	15913.1	18829.1	18959.0	18884.1	18484.6	17396.1	14709.8
60°	5702.2	6061.7	6815.6	8728.0	11329.4	14450.1	14555.0	15164.2	15239.1	13321.7	10121.1
62.5°	2421.7	2381.7	3165.7	4573.7	6451.1	8723.0	8917.7	9541.9	9656.7	7679.5	5078.0
65°	983.6	1038.6	1433.0	2301.8	3410.3	3974.5	4249.2	4453.9	4833.4	3170.6	1872.4
67.5°	649.1	644.1	843.8	1313.2	1837.5	1772.6	1772.6	1872.4	1732.6	1293.2	808.9
70°	464.4	479.3	604.2	908.8	1143.4	848.8	813.9	778.9	883.8	853.8	654.1
72.5°	304.6	324.6	404.4	544.3	594.2	464.4	464.4	559.2	729.0	689.1	534.3
75°	199.7	204.7	249.7	314.6	294.6	239.7	264.6	374.5	529.3	509.3	379.5
77.5°	134.8	139.8	169.8	204.7	164.8	134.8	144.8	189.7	259.6	259.6	199.7
80°	49.9	54.9	69.9	64.9	74.9	94.9	104.9	129.8	154.8	154.8	134.8
82.5°	0.0	5.0	15.0	35.0	54.9	74.9	84.9	99.9	114.8	129.8	124.8
85°	0.0	5.0	15.0	25.0	39.9	44.9	49.9	35.0	30.0	30.0	25.0
87.5°	0.0	0.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0	5.0	5.0
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°	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8	5237.8
2.5°	5237.8	5232.8	5232.8	5217.8	5247.8	5232.8	5242.8	5237.8	5172.9	5222.8	5187.9
5°	5292.7	5327.7	5272.8	5262.8	5222.8	5237.8	5237.8	5187.9	5232.8	5227.8	5217.8
7.5°	5432.5	5372.6	5312.7	5252.8	5242.8	5227.8	5172.9	5152.9	5187.9	5147.9	5207.8
10°	5492.5	5502.4	5412.6	5332.7	5257.8	5152.9	5078.0	5033.1	4978.2	5038.1	5073.0
12.5°	5767.1	5667.2	5512.4	5387.6	5132.9	5028.1	4953.2	4933.2	5028.1	5048.1	5013.1
15°	5861.9	5847.0	5647.2	5367.6	5103.0	4978.2	4993.1	4953.2	4963.2	4913.3	4923.2
17.5°	6056.7	5886.9	5652.2	5302.7	5098.0	5068.0	4978.2	4818.4	4728.5	4688.6	4723.5
20°	6271.4	6106.6	5767.1	5327.7	5142.9	5063.0	4768.4	4573.7	4389.0	4289.1	4294.1
22.5°	6461.1	6256.4	5717.1	5337.7	5182.9	4853.3	4498.8	4114.3	3884.7	3729.9	3734.9
25°	6690.8	6401.2	5737.1	5357.6	5078.0	4518.8	4009.5	3635.0	3360.4	3255.5	3290.5
27.5°	6820.6	6491.1	5847.0	5402.6	4803.4	4044.4	3495.2	3145.7	2985.9	2936.0	2931.0
30°	7210.1	6690.8	5981.8	5312.7	4344.0	3535.1	3025.8	2811.1	2656.4	2611.4	2621.4
32.5°	7789.3	7055.3	6156.5	5078.0	3874.7	3080.8	2721.3	2561.5	2416.7	2331.8	2321.8
35°	8273.6	7679.5	6341.3	4713.5	3330.4	2731.2	2506.6	2306.8	2087.1	1992.3	1967.3
37.5°	9197.4	8383.5	6301.3	4164.3	2811.1	2471.6	2276.9	2032.2	1842.5	1712.6	1697.7
40°	10425.7	9207.4	6106.6	3495.2	2426.7	2241.9	2032.2	1797.5	1562.9	1453.0	1443.0
42.5°	11918.6	10216.0	5752.1	2816.1	2042.2	2012.2	1822.5	1552.9	1343.2	1263.3	1268.3
45°	13132.0	11079.8	5392.6	2261.9	1757.6	1787.5	1622.8	1368.1	1223.3	1158.4	1158.4
47.5°	14210.5	11664.0	5003.1	1867.4	1492.9	1562.9	1418.1	1268.3	1143.4	1093.5	1083.5
50°	15249.1	12258.2	4613.7	1512.9	1273.3	1343.2	1328.2	1208.3	1108.5	1048.6	1053.6
52.5°	15898.2	12353.0	4119.3	1238.3	1113.5	1193.4	1243.3	1133.4	1023.6	988.6	978.7
55°	15104.3	11129.7	3195.6	1018.6	943.7	1048.6	1143.4	1018.6	933.7	873.8	868.8
56°	14035.7	9951.3	2671.3	938.7	893.8	1008.6	1108.5	973.7	878.8	843.8	818.9
57.5°	11883.7	8143.8	1972.3	833.9	828.9	938.7	1053.6	928.7	818.9	788.9	788.9
60°	7409.8	4583.7	1193.4	699.0	719.0	833.9	948.7	828.9	729.0	729.0	744.0
62.5°	3375.4	1907.4	724.0	594.2	619.1	719.0	843.8	749.0	694.0	749.0	759.0
65°	1148.4	823.9	524.3	474.3	489.3	594.2	724.0	759.0	754.0	788.9	808.9
67.5°	644.1	529.3	439.4	394.5	384.5	439.4	594.2	759.0	729.0	714.0	724.0
70°	544.3	449.4	389.5	349.5	334.5	354.5	459.4	574.2	514.3	499.3	489.3
72.5°	439.4	374.5	339.5	314.6	269.6	229.7	209.7	219.7	244.7	259.6	284.6
75°	309.6	284.6	284.6	254.7	194.7	144.8	114.8	94.9	64.9	44.9	49.9
77.5°	174.8	174.8	179.8	154.8	124.8	94.9	69.9	49.9	25.0	10.0	5.0
80°	119.8	129.8	139.8	124.8	104.9	84.9	59.9	35.0	15.0	0.0	0.0
82.5°	119.8	134.8	144.8	124.8	104.9	79.9	59.9	35.0	15.0	5.0	0.0
85°	25.0	30.0	35.0	39.9	59.9	59.9	44.9	30.0	15.0	5.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0	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)