

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: P533220

Luminaire Tested: **GALN-SA8C-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37658 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

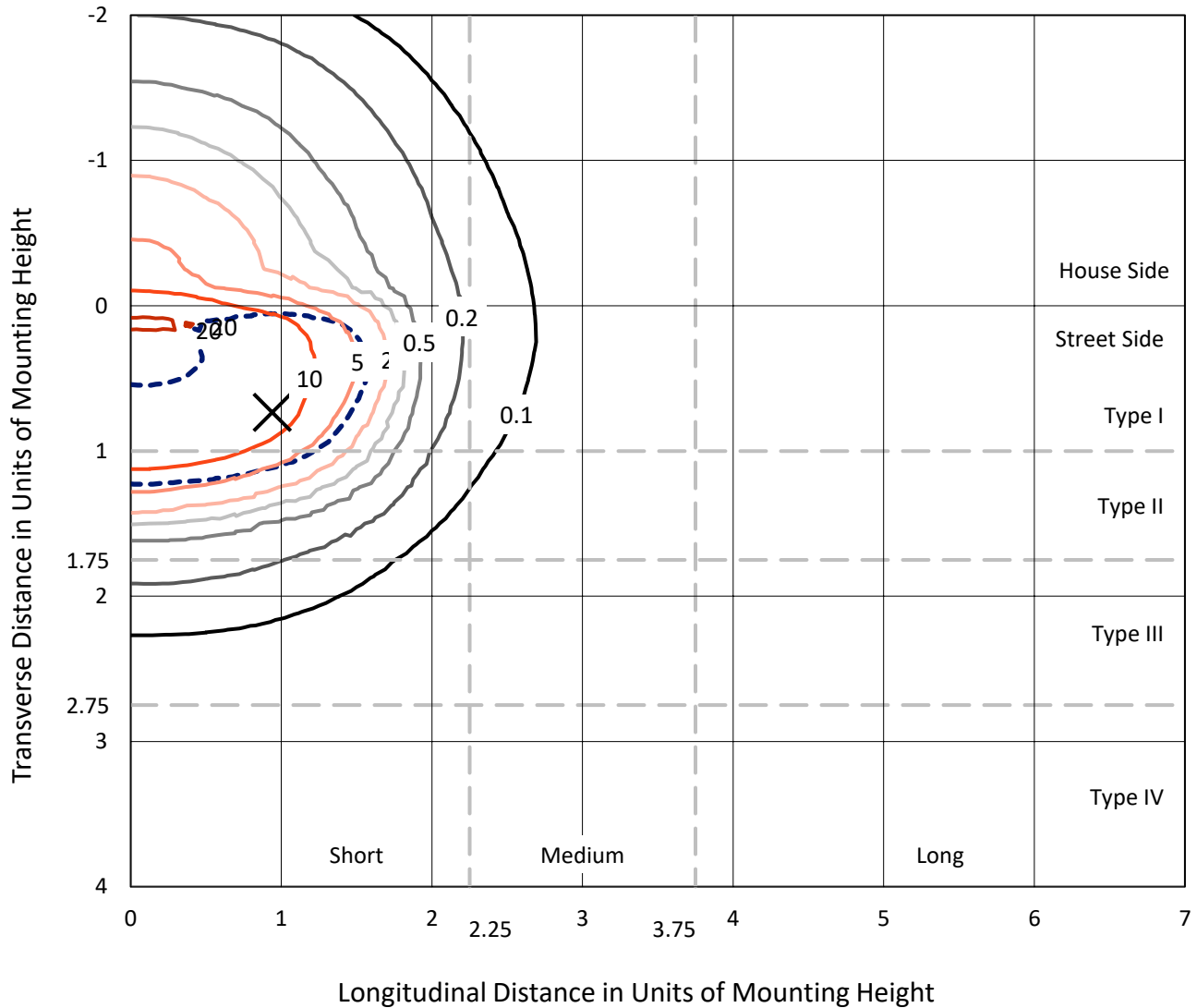
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

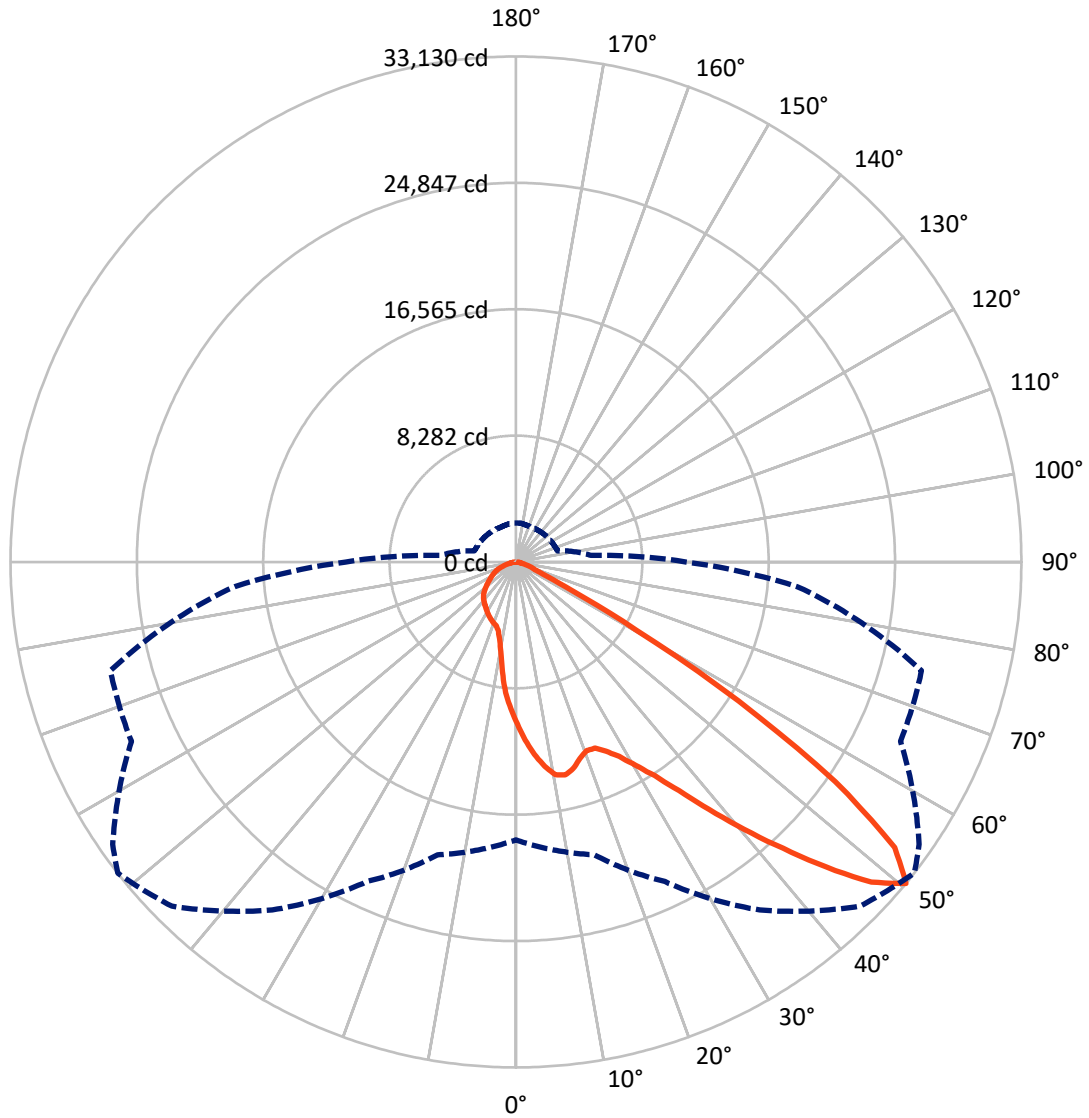
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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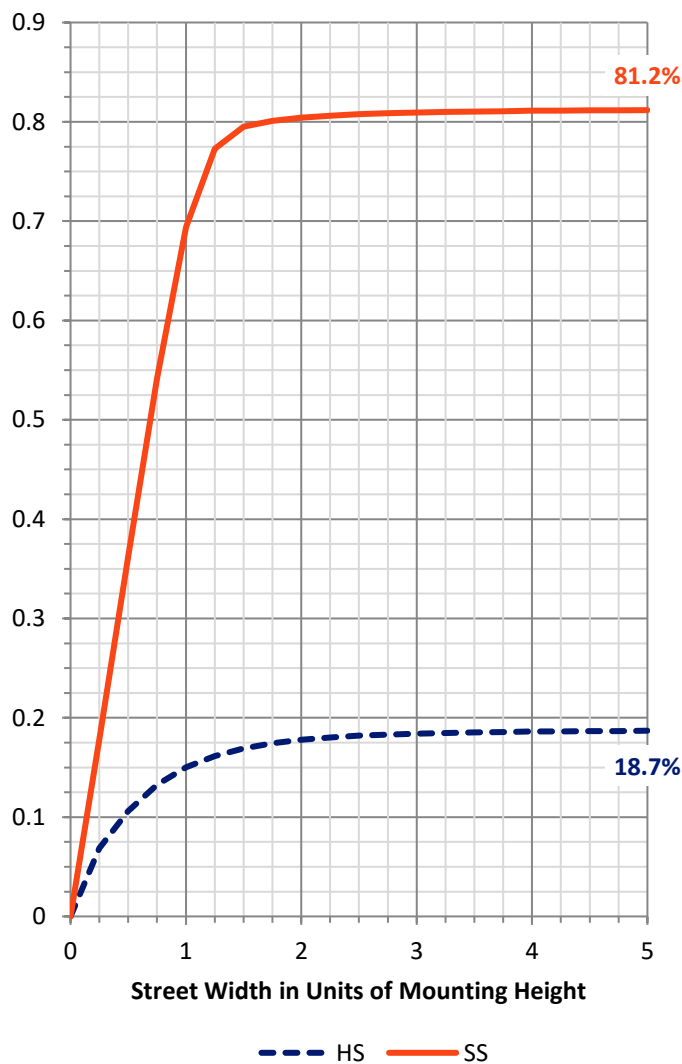
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7078.8	0.0	7078.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30579.2	0.0	30579.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	37658.0	0.0	37658.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	978.4	2.6
10°-20°	2622.3	7.0
20°-30°	4417.2	11.7
30°-40°	7412.5	19.7
40°-50°	11339.3	30.1
50°-60°	8267.3	22.0
60°-70°	1839.9	4.9
70°-80°	663.6	1.8
80°-90°	117.5	0.3
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°	37658.0	100.0
0°-180°	37658.0	100.0

**Coefficient of Utilization**



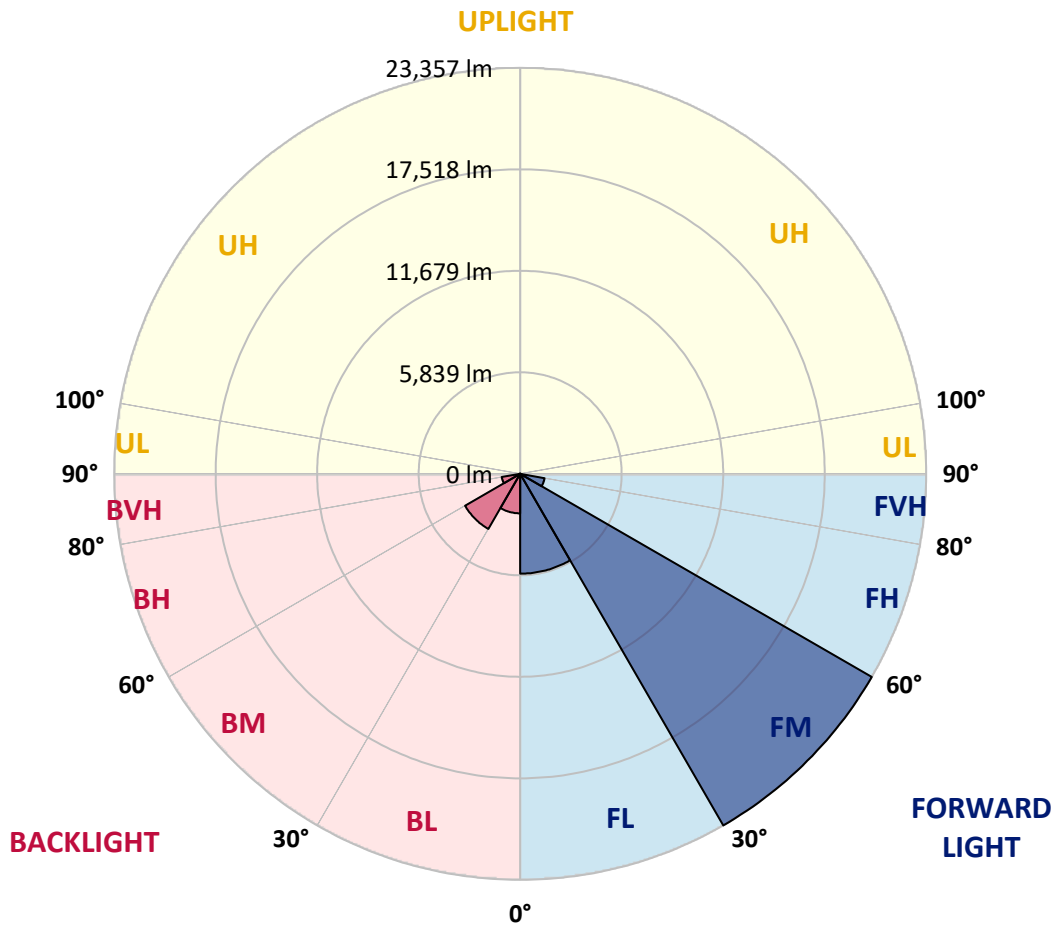
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5744.1	15.3			
FM (30°-60°)	23357.4	62.0			
FH (60°-80°)	1425.0	3.8			G1/1800
FVH (80°-90°)	52.6	0.1			G1/100
BL (0°-30°)	2273.9	6.0	B3/2500		
BM (30°-60°)	3661.7	9.7	B3/5000		
BH (60°-80°)	1078.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.8	0.2			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°	52°	55°	65°	75°	85°
0°	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2
2.5°	12498.6	12258.0	12285.3	12112.8	11926.7	11872.3	11681.7	11500.1	11364.0	11073.5	10805.8
5°	13660.4	13587.8	13478.9	13342.7	13202.0	12857.1	12662.0	12435.0	11935.8	11486.5	11041.8
7.5°	13828.3	13814.7	13873.7	13873.7	13923.6	13792.0	13515.2	13356.3	12825.3	12094.7	11268.7
10°	12648.3	12689.2	12975.1	13347.2	13864.6	14223.1	14177.8	14136.9	13556.0	12557.6	11536.4
12.5°	11708.9	11618.1	11786.1	12103.7	12879.8	13746.6	14332.1	14336.6	14186.8	13297.3	11731.6
15°	11177.9	11241.5	11286.8	11436.6	12022.0	13025.0	14055.2	14359.3	15017.4	13819.2	12040.2
17.5°	11518.3	11305.0	11295.9	11332.2	11631.8	12385.1	13542.4	14064.3	15471.2	14490.9	12421.4
20°	11963.1	11958.5	11831.4	11786.1	11781.5	12453.2	13206.6	13914.5	15711.7	15362.3	12807.2
22.5°	12743.6	12743.6	12534.9	12435.0	12221.7	12770.9	13251.9	13733.0	16111.1	15961.3	12993.3
25°	14050.7	13837.4	13478.9	13233.8	13111.3	13306.4	13733.0	14164.1	16460.5	16596.7	13379.0
27.5°	15257.9	14922.0	14745.1	14323.0	14159.6	14046.1	14436.4	14872.1	16869.0	17586.0	13587.8
30°	16628.5	16569.5	16251.8	15707.2	15303.3	15094.5	15453.0	15884.2	17617.8	18598.1	14068.8
32.5°	19079.2	18543.6	18112.5	17445.4	16787.3	16342.5	16696.5	16982.5	18861.3	19655.5	14595.3
35°	21725.0	21552.6	20808.3	19605.6	18598.1	18198.7	18407.5	18620.8	20309.0	21271.2	15480.3
37.5°	24325.5	24089.5	23476.8	22464.8	21239.4	20427.0	20576.8	20826.4	21933.8	23449.6	16560.4
40°	26195.3	25904.8	25596.2	25446.4	24230.2	23118.3	23032.1	23095.6	24130.3	25491.8	17758.5
42.5°	26331.4	26689.9	26785.3	27388.9	27102.9	26190.7	25659.7	25673.4	26227.0	27511.4	18970.2
45°	26045.5	25714.2	26417.6	28065.1	29009.0	29435.6	28541.6	28428.1	27525.0	28682.3	19573.8
47.5°	23045.7	23136.4	24325.5	26930.5	29658.0	31564.1	31355.4	30978.7	28219.4	28641.4	19478.5
50°	18216.9	18766.0	19868.8	23113.7	27842.7	31900.0	33129.8	32258.5	27806.4	27515.9	18507.3
52.5°	12131.0	12357.9	13084.0	17272.9	22387.6	28514.4	31087.6	31287.3	27425.2	26041.0	17277.4
55°	5400.6	5382.5	6403.6	9022.2	14046.1	21697.8	25401.1	26617.3	25959.3	24538.8	16079.3
57.5°	2287.3	2364.5	2782.0	3898.4	6907.3	13093.1	17209.4	18275.9	19964.1	20150.2	12335.2
60°	1547.6	1556.6	1670.1	1951.5	2890.9	6149.4	9026.7	10306.6	11513.8	11432.1	6544.3
62.5°	1216.3	1248.0	1334.3	1447.7	1715.5	2791.1	4039.1	4751.6	4828.8	4061.8	2482.5
65°	1039.3	1043.8	1130.0	1225.4	1343.3	1624.7	1946.9	1983.3	2005.9	1933.3	1824.4
67.5°	857.7	866.8	934.9	1043.8	1152.7	1243.5	1334.3	1379.7	1484.0	1688.3	1661.0
70°	680.8	694.4	753.4	844.1	944.0	998.4	1111.9	1152.7	1248.0	1406.9	1470.4
72.5°	517.4	521.9	571.8	635.4	726.1	780.6	875.9	921.3	984.8	1121.0	1180.0
75°	372.1	385.8	422.1	453.8	467.4	503.8	594.5	644.4	735.2	794.2	798.7
77.5°	195.1	204.2	213.3	213.3	258.7	326.8	385.8	413.0	476.5	521.9	499.2
80°	77.2	81.7	104.4	140.7	181.5	236.0	276.8	290.5	344.9	372.1	385.8
82.5°	45.4	49.9	68.1	99.8	131.6	167.9	199.7	213.3	249.6	281.4	290.5
85°	22.7	27.2	40.8	63.5	86.2	104.4	99.8	95.3	95.3	90.8	95.3
87.5°	9.1	9.1	13.6	13.6	13.6	18.2	22.7	22.7	22.7	27.2	27.2
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°	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2	10615.2
2.5°	10628.8	10447.2	10279.3	9970.7	9634.9	9539.6	9149.3	9008.6	8908.8	8790.8	8754.4
5°	10683.2	10442.7	9902.6	9280.9	8786.2	8150.8	7733.3	7284.0	6957.3	6875.6	6852.9
7.5°	10796.7	10383.7	9453.4	8513.9	7501.9	6639.6	5981.5	5627.5	5314.4	5296.2	5264.5
10°	10923.8	10206.7	8963.2	7488.3	6194.8	5396.1	5001.2	4846.9	4769.8	4751.6	4742.6
12.5°	11028.2	10170.4	8414.1	6489.8	5269.0	4787.9	4669.9	4656.3	4688.1	4697.2	4715.3
15°	11073.5	10025.2	7751.5	5595.8	4692.6	4515.6	4565.6	4620.0	4642.7	4701.7	4656.3
17.5°	11159.8	9839.1	6934.6	4887.8	4370.4	4402.2	4488.4	4552.0	4588.3	4629.1	4570.1
20°	11205.1	9671.2	6167.6	4465.7	4257.0	4316.0	4434.0	4483.9	4529.3	4547.4	4479.3
22.5°	11164.3	9326.3	5491.4	4125.3	4148.0	4225.2	4329.6	4384.0	4356.8	4284.2	4243.3
25°	11055.4	8840.7	4787.9	3907.5	3993.7	4129.9	4211.6	4170.7	4120.8	4080.0	4066.3
27.5°	11050.8	8246.2	4279.7	3707.8	3862.1	4048.2	4021.0	3984.7	4007.3	3975.6	3939.3
30°	11073.5	7669.8	3862.1	3594.4	3766.8	3857.6	3889.4	3853.0	3880.3	3821.3	3839.4
32.5°	10955.5	7107.0	3589.8	3462.7	3653.4	3648.8	3753.2	3780.4	3716.9	3594.4	3612.5
35°	11005.5	6653.2	3358.4	3403.8	3526.3	3526.3	3608.0	3576.2	3408.3	3335.7	3353.8
37.5°	11350.4	6208.4	3244.9	3322.1	3403.8	3440.1	3412.8	3276.7	3235.8	3235.8	3244.9
40°	11677.1	5827.2	3176.8	3303.9	3290.3	3313.0	3113.3	3126.9	3126.9	3131.5	3108.8
42.5°	11967.6	5568.5	3122.4	3195.0	3217.7	3099.7	2977.1	2963.5	2995.3	2990.8	2972.6
45°	12072.0	5355.2	3045.2	3072.5	3090.6	2895.5	2836.5	2809.2	2845.5	2859.2	2877.3
47.5°	11672.6	5178.2	2959.0	2904.5	2868.2	2741.2	2664.0	2614.1	2659.5	2736.6	2754.8
50°	11159.8	4946.8	2822.8	2718.5	2641.3	2586.9	2532.4	2482.5	2514.2	2568.7	2555.1
52.5°	10401.9	4583.7	2650.4	2541.5	2409.9	2423.5	2373.5	2346.3	2364.5	2364.5	2350.9
55°	9321.7	3766.8	2359.9	2282.8	2173.9	2210.2	2219.2	2182.9	2146.6	2178.4	2151.2
57.5°	6362.7	2659.5	2105.8	2105.8	1996.9	2046.8	2042.3	1956.0	1869.8	1878.9	1860.7
60°	3680.6	2119.4	1942.4	1924.3	1810.8	1851.6	1860.7	1801.7	1670.1	1679.2	1661.0
62.5°	2092.2	1810.8	1697.3	1670.1	1647.4	1683.7	1683.7	1606.6	1493.1	1502.2	1484.0
65°	1779.0	1679.2	1515.8	1511.3	1502.2	1511.3	1475.0	1393.3	1293.4	1252.6	1257.1
67.5°	1615.6	1552.1	1393.3	1352.4	1325.2	1320.7	1252.6	1175.4	1130.0	1093.7	1089.2
70°	1416.0	1366.0	1248.0	1193.6	1166.4	1102.8	1034.7	984.8	921.3	903.1	921.3
72.5°	1121.0	1116.4	1071.0	1012.0	953.1	903.1	844.1	776.1	717.1	703.4	671.7
75°	776.1	785.1	794.2	785.1	735.2	671.7	603.6	549.1	476.5	435.7	426.6
77.5°	508.3	521.9	535.5	517.4	485.6	426.6	381.2	313.1	258.7	226.9	222.4
80°	372.1	390.3	399.4	385.8	349.5	304.1	254.1	199.7	158.8	131.6	131.6
82.5°	285.9	304.1	313.1	290.5	254.1	217.8	181.5	140.7	108.9	86.2	81.7
85°	99.8	95.3	113.5	118.0	140.7	131.6	108.9	81.7	63.5	45.4	40.8
87.5°	27.2	27.2	31.8	31.8	27.2	22.7	22.7	22.7	18.2	13.6	13.6
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)