

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: P532949

Luminaire Tested: **GALN-SA8B-750-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532949  
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-SA8B-750-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 800mA 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: 27439 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

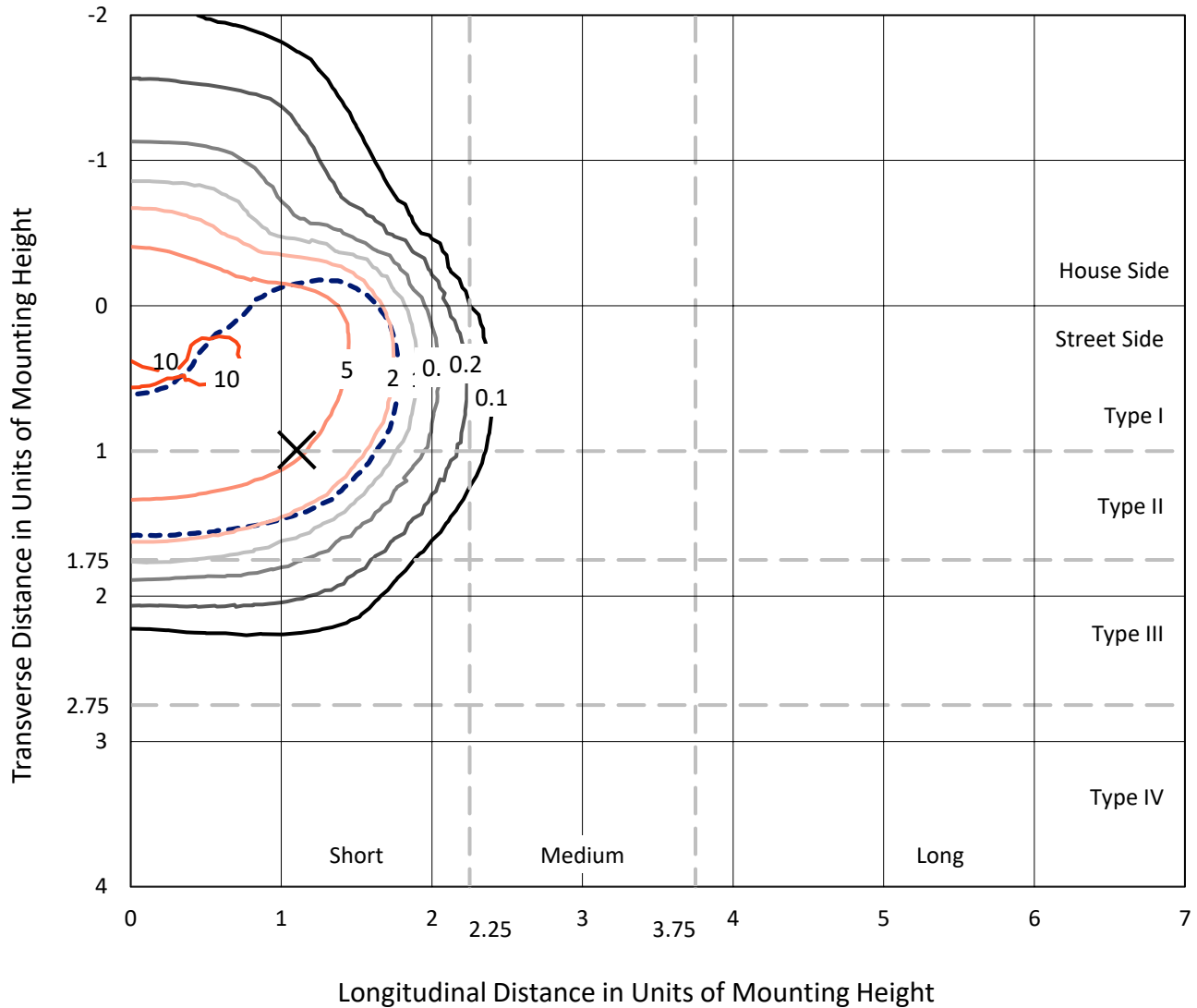
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

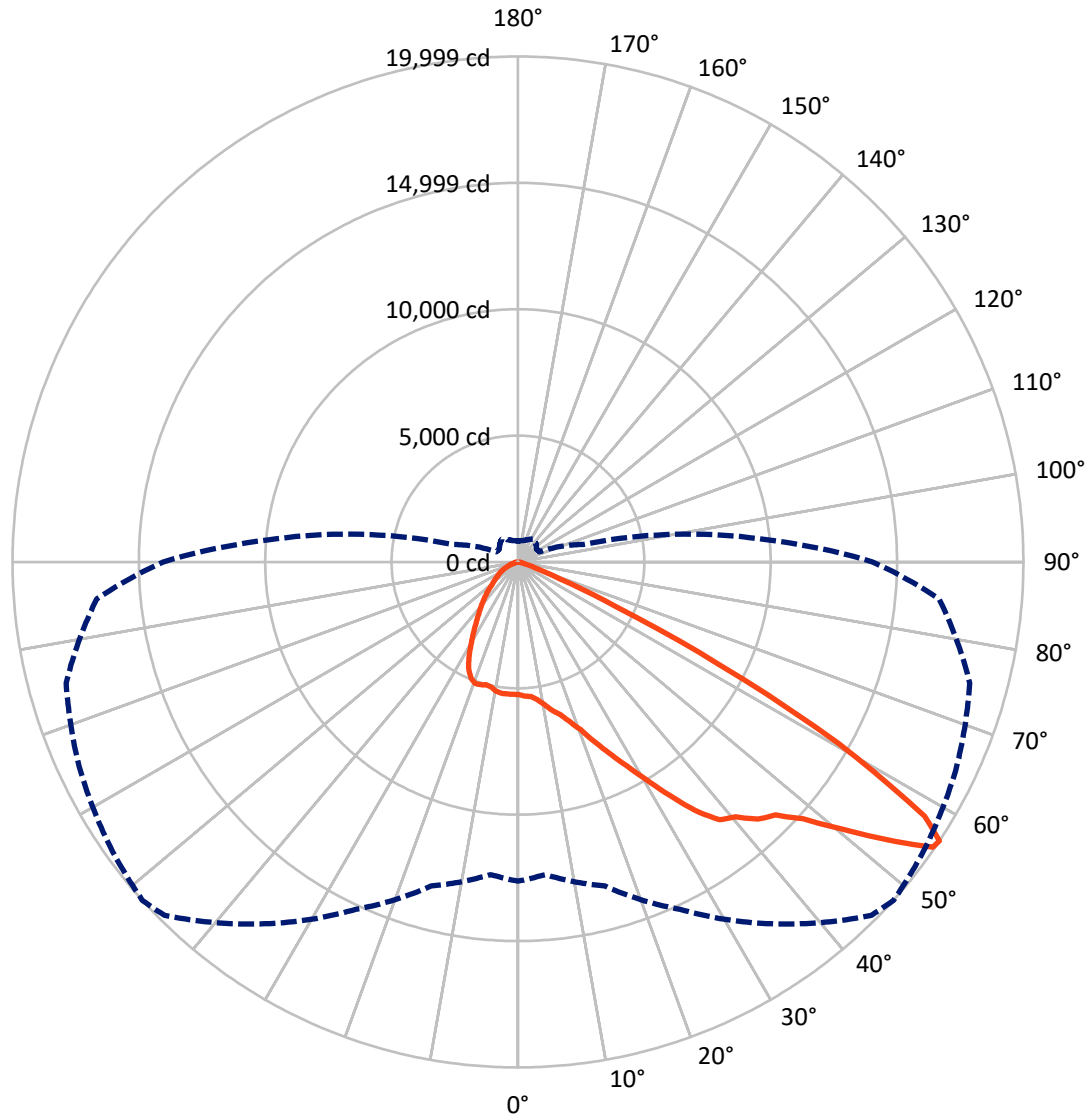
✕ Max cd  
 - - - 1/2 Max cd



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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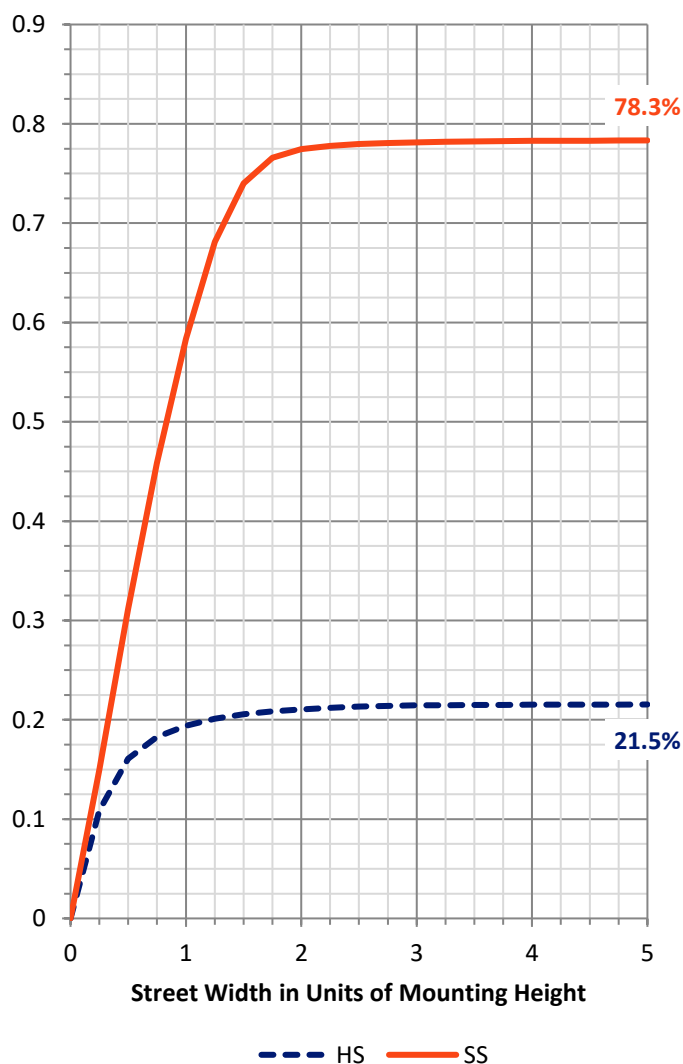
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5967.5	0.0	5967.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	21471.5	0.0	21471.5
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	27439.0	0.0	27439.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.5	1.9
10°-20°	1631.5	5.9
20°-30°	2959.3	10.8
30°-40°	4648.4	16.9
40°-50°	6781.2	24.7
50°-60°	8170.0	29.8
60°-70°	2392.1	8.7
70°-80°	303.5	1.1
80°-90°	42.6	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°	27439.0	100.0
0°-180°	27439.0	100.0

**Coefficient of Utilization**



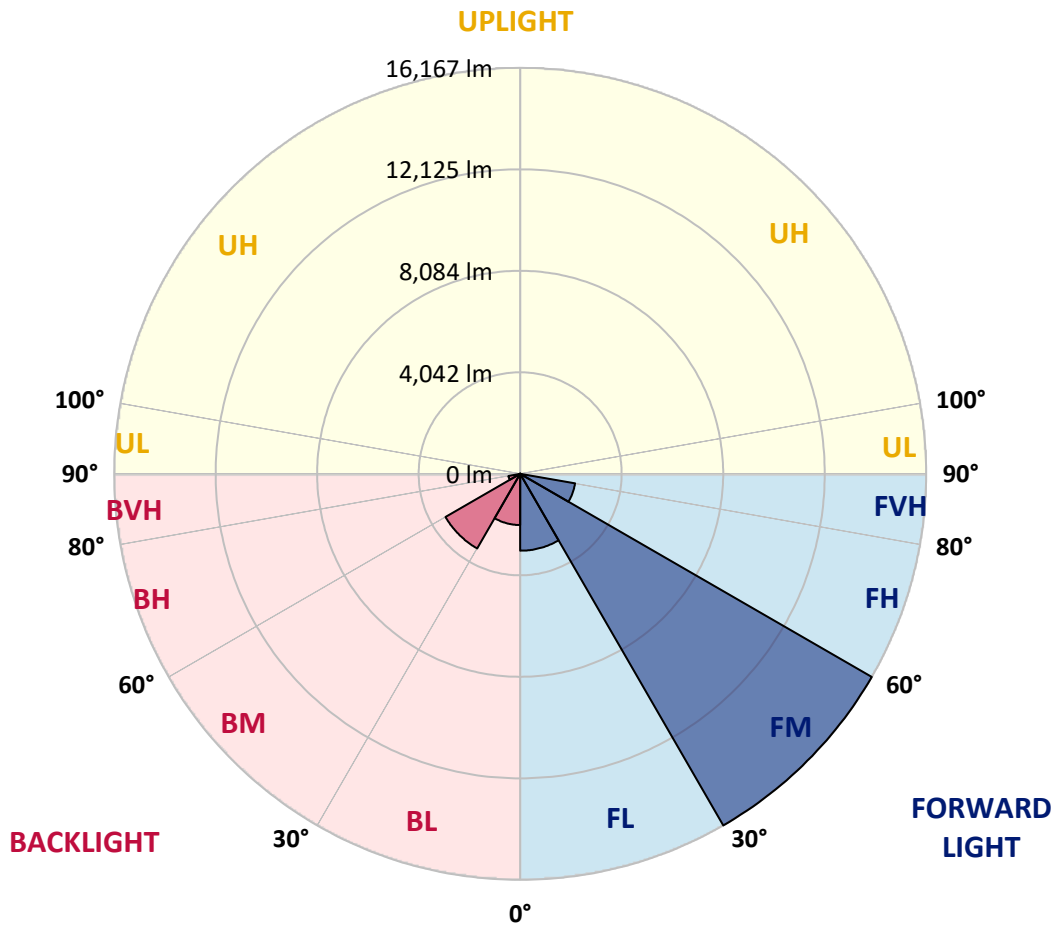
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3061.6	11.2			
FM	(30°-60°)	16167.1	58.9			
FH	(60°-80°)	2221.4	8.1			G2/5000
FVH	(80°-90°)	21.4	0.1			G1/100
BL	(0°-30°)	2039.7	7.4	B3/2500		
BM	(30°-60°)	3432.5	12.5	B3/5000		
BH	(60°-80°)	474.2	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°	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9
2.5°	5335.8	5310.8	5310.8	5270.8	5315.8	5295.8	5310.8	5260.8	5310.8	5235.9	5295.8
5°	5360.8	5365.8	5345.8	5370.8	5370.8	5400.7	5350.8	5395.7	5420.7	5365.8	5340.8
7.5°	5490.7	5500.7	5495.7	5475.7	5515.6	5510.6	5505.7	5470.7	5480.7	5460.7	5430.7
10°	5745.5	5740.5	5765.4	5715.5	5685.5	5720.5	5730.5	5675.5	5635.5	5620.6	5525.6
12.5°	6115.2	6055.2	6020.2	5970.3	5985.3	5935.3	6025.2	5930.3	5910.3	5820.4	5725.5
15°	6414.9	6404.9	6409.9	6330.0	6240.1	6260.1	6260.1	6210.1	6180.1	6070.2	5935.3
17.5°	7029.4	6819.6	6864.6	6764.7	6689.7	6684.7	6639.8	6649.7	6569.8	6340.0	6135.2
20°	7509.1	7419.1	7349.2	7179.3	7064.4	7099.4	7079.4	7029.4	7004.5	6704.7	6414.9
22.5°	7938.7	7968.7	7853.8	7808.8	7649.0	7663.9	7703.9	7659.0	7469.1	7159.3	6729.7
25°	8543.3	8508.3	8353.4	8298.4	8148.6	8203.5	8358.4	8323.4	8203.5	7644.0	6974.5
27.5°	9257.7	9137.8	9167.8	8918.0	8773.1	8927.9	9112.8	9287.7	8947.9	8213.5	7264.3
30°	9762.3	9637.4	9627.4	9617.4	9582.4	9762.3	9977.1	10137.0	9862.2	8783.1	7743.9
32.5°	10012.1	10042.1	10127.0	10097.0	10401.8	10771.5	10996.3	11226.1	10881.4	9712.3	8378.4
35°	10676.6	10486.7	10676.6	10696.6	11011.3	11795.7	12080.5	12630.0	12545.1	11026.3	9152.8
37.5°	11066.3	11051.3	11076.3	11266.1	11570.9	12540.1	12944.8	13369.4	13209.6	11815.7	10117.0
40°	11710.8	11750.7	11745.7	11890.6	12225.3	13099.7	13264.5	13609.3	13624.2	12909.8	11535.9
42.5°	12744.9	12585.1	12480.1	12630.0	13099.7	13584.3	13914.0	13844.1	14338.7	14238.8	13359.4
45°	13674.2	13769.1	13614.2	13864.1	14033.9	14293.7	14283.7	14433.6	15063.1	15537.7	14733.4
47.5°	14543.5	14603.5	14678.4	14848.3	15218.0	15257.9	15173.0	15108.1	15977.4	16467.0	15797.5
50°	15063.1	15118.1	15467.8	15772.5	16462.0	16551.9	16601.9	16437.0	17026.6	17081.5	16801.7
52.5°	14923.2	14983.2	15472.8	16477.0	17576.1	18400.5	18250.6	17970.8	17935.8	18150.7	17731.0
55°	13684.2	13629.2	14303.7	15867.5	17925.8	19904.3	19924.3	19629.5	19064.9	18920.1	17591.1
56°	12630.0	12415.2	13274.5	15163.0	17476.2	19774.4	19999.2	19684.5	19154.9	18505.4	16726.8
57.5°	10346.8	10551.7	11406.0	12969.8	15922.4	18840.1	18970.0	18895.1	18495.4	17406.3	14718.4
60°	5705.5	6065.2	6819.6	8733.1	11336.0	14458.6	14563.5	15173.0	15248.0	13329.5	10127.0
62.5°	2423.1	2383.1	3167.5	4576.4	6454.9	8728.1	8923.0	9547.5	9662.4	7683.9	5081.0
65°	984.2	1039.2	1433.9	2303.2	3412.3	3976.9	4251.6	4456.5	4836.2	3172.5	1873.5
67.5°	649.5	644.5	844.3	1314.0	1838.5	1773.6	1773.6	1873.5	1733.6	1294.0	809.4
70°	464.6	479.6	604.5	909.3	1144.1	849.3	814.4	779.4	884.3	854.3	654.5
72.5°	304.8	324.7	404.7	544.6	594.5	464.6	464.6	559.6	729.4	689.5	534.6
75°	199.8	204.8	249.8	314.8	294.8	239.8	264.8	374.7	529.6	509.6	379.7
77.5°	134.9	139.9	169.9	204.8	164.9	134.9	144.9	189.9	259.8	259.8	199.8
80°	50.0	55.0	69.9	64.9	74.9	94.9	104.9	129.9	154.9	154.9	134.9
82.5°	0.0	5.0	15.0	35.0	55.0	74.9	84.9	99.9	114.9	129.9	124.9
85°	0.0	5.0	15.0	25.0	40.0	45.0	50.0	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°	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9	5240.9
2.5°	5240.9	5235.9	5235.9	5220.9	5250.9	5235.9	5245.9	5240.9	5175.9	5225.9	5190.9
5°	5295.8	5330.8	5275.8	5265.8	5225.9	5240.9	5240.9	5190.9	5235.9	5230.9	5220.9
7.5°	5435.7	5375.8	5315.8	5255.8	5245.9	5230.9	5175.9	5155.9	5190.9	5150.9	5210.9
10°	5495.7	5505.7	5415.7	5335.8	5260.8	5155.9	5081.0	5036.0	4981.1	5041.0	5076.0
12.5°	5770.4	5670.5	5515.6	5390.7	5135.9	5031.0	4956.1	4936.1	5031.0	5051.0	5016.0
15°	5865.4	5850.4	5650.5	5370.8	5106.0	4981.1	4996.1	4956.1	4966.1	4916.1	4926.1
17.5°	6060.2	5890.3	5655.5	5305.8	5101.0	5071.0	4981.1	4821.2	4731.3	4691.3	4726.3
20°	6275.0	6110.2	5770.4	5330.8	5145.9	5066.0	4771.2	4576.4	4391.5	4291.6	4296.6
22.5°	6464.9	6260.1	5720.5	5340.8	5185.9	4856.2	4501.4	4116.7	3886.9	3732.1	3737.0
25°	6694.7	6404.9	5740.5	5360.8	5081.0	4521.4	4011.8	3637.1	3362.3	3257.4	3292.4
27.5°	6824.6	6494.9	5850.4	5405.7	4806.2	4046.8	3497.2	3147.5	2987.6	2937.7	2932.7
30°	7214.3	6694.7	5985.3	5315.8	4346.6	3537.2	3027.6	2812.8	2657.9	2612.9	2622.9
32.5°	7793.8	7059.4	6160.1	5081.0	3876.9	3082.6	2722.8	2563.0	2418.1	2333.2	2323.2
35°	8278.5	7683.9	6345.0	4716.3	3332.4	2732.8	2508.0	2308.2	2088.4	1993.4	1968.4
37.5°	9202.7	8388.4	6305.0	4166.7	2812.8	2473.0	2278.2	2033.4	1843.5	1713.6	1698.7
40°	10431.8	9212.7	6110.2	3497.2	2428.1	2243.2	2033.4	1798.6	1563.8	1453.9	1443.9
42.5°	11925.6	10221.9	5755.5	2817.8	2043.4	2013.4	1823.6	1553.8	1343.9	1264.0	1269.0
45°	13139.6	11086.2	5395.7	2263.2	1758.6	1788.6	1623.7	1368.9	1224.0	1159.1	1159.1
47.5°	14218.8	11670.8	5006.0	1868.5	1493.8	1563.8	1418.9	1269.0	1144.1	1094.1	1084.1
50°	15257.9	12265.3	4616.4	1513.8	1274.0	1343.9	1329.0	1209.0	1109.1	1049.2	1054.2
52.5°	15907.4	12360.2	4121.7	1239.0	1114.1	1194.1	1244.0	1134.1	1024.2	989.2	979.2
55°	15113.1	11136.2	3197.5	1019.2	944.3	1049.2	1144.1	1019.2	934.3	874.3	869.3
56°	14043.9	9957.1	2672.9	939.3	894.3	1009.2	1109.1	974.2	879.3	844.3	819.4
57.5°	11890.6	8148.6	1973.4	834.3	829.3	939.3	1054.2	929.3	819.4	789.4	789.4
60°	7414.1	4586.4	1194.1	699.4	719.4	834.3	949.3	829.3	729.4	729.4	744.4
62.5°	3377.3	1908.5	724.4	594.5	619.5	719.4	844.3	749.4	694.5	749.4	759.4
65°	1149.1	824.3	524.6	474.6	489.6	594.5	724.4	759.4	754.4	789.4	809.4
67.5°	644.5	529.6	439.7	394.7	384.7	439.7	594.5	759.4	729.4	714.4	724.4
70°	544.6	449.6	389.7	349.7	334.7	354.7	459.6	574.5	514.6	499.6	489.6
72.5°	439.7	374.7	339.7	314.8	269.8	229.8	209.8	219.8	244.8	259.8	284.8
75°	309.8	284.8	284.8	254.8	194.8	144.9	114.9	94.9	64.9	45.0	50.0
77.5°	174.9	174.9	179.9	154.9	124.9	94.9	69.9	50.0	25.0	10.0	5.0
80°	119.9	129.9	139.9	124.9	104.9	84.9	60.0	35.0	15.0	0.0	0.0
82.5°	119.9	134.9	144.9	124.9	104.9	79.9	60.0	35.0	15.0	5.0	0.0
85°	25.0	30.0	35.0	40.0	60.0	60.0	45.0	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)