

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: P533470

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39152 lumens
Efficiency: N/A
Efficacy: 79.4 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

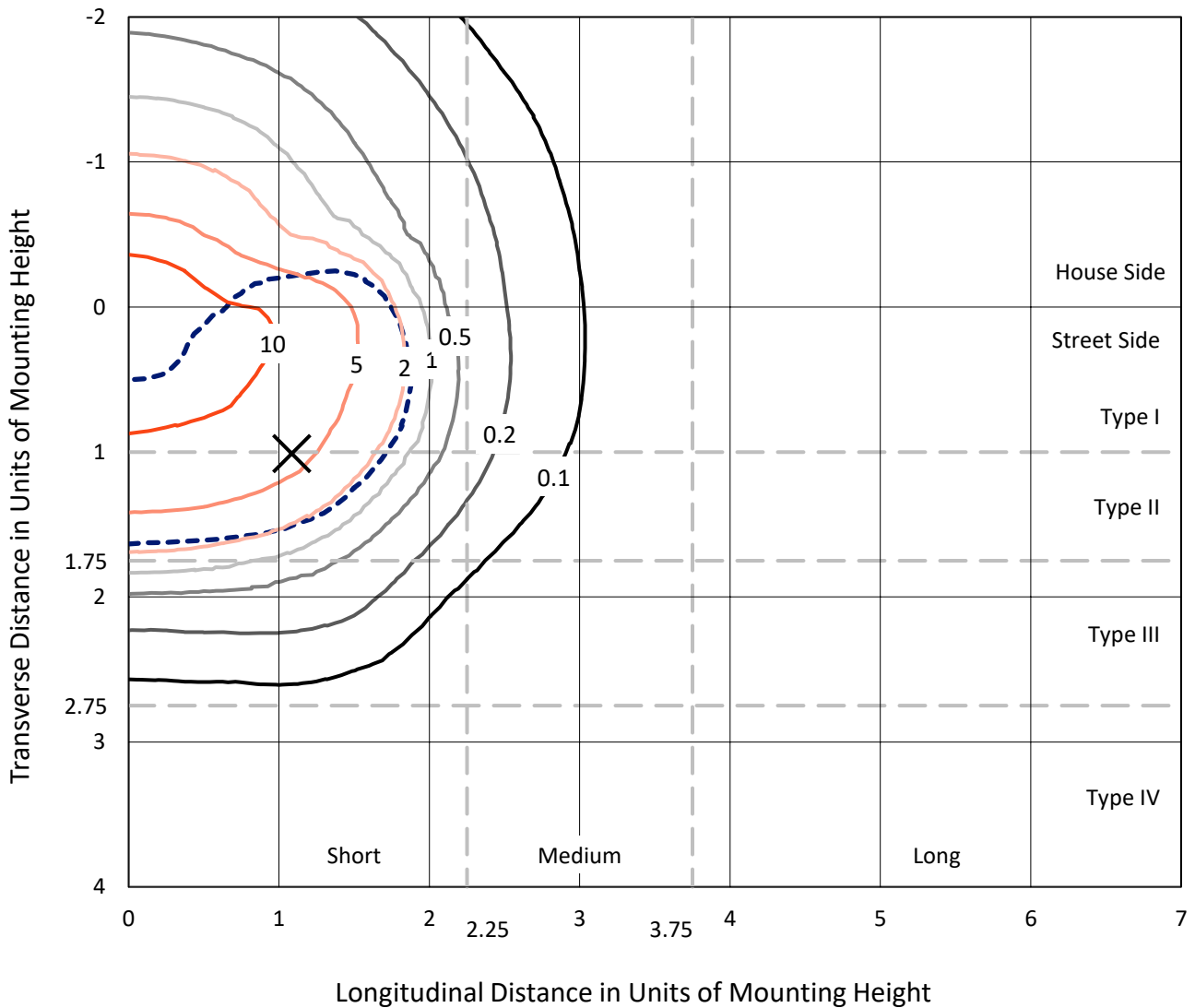
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

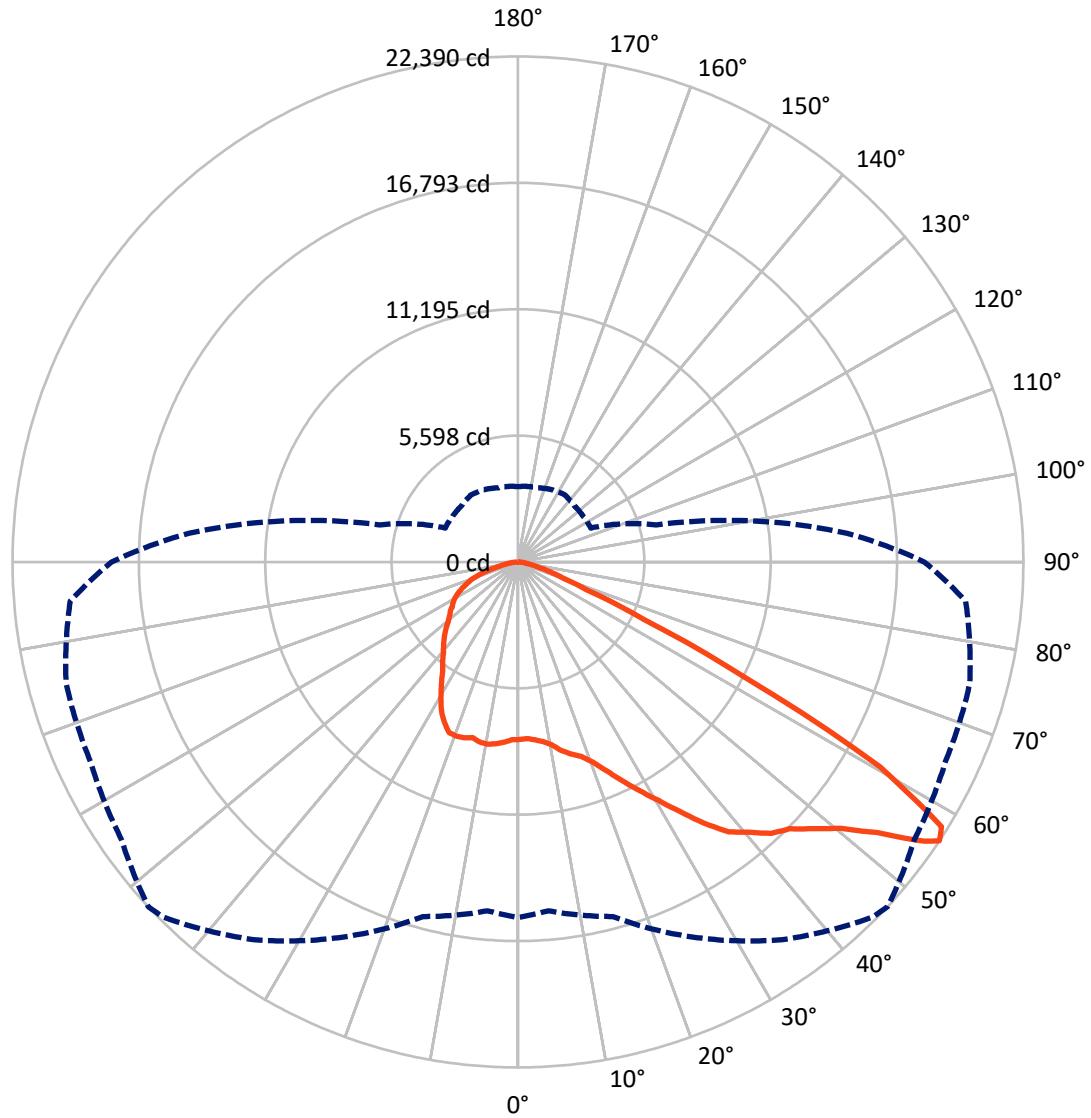
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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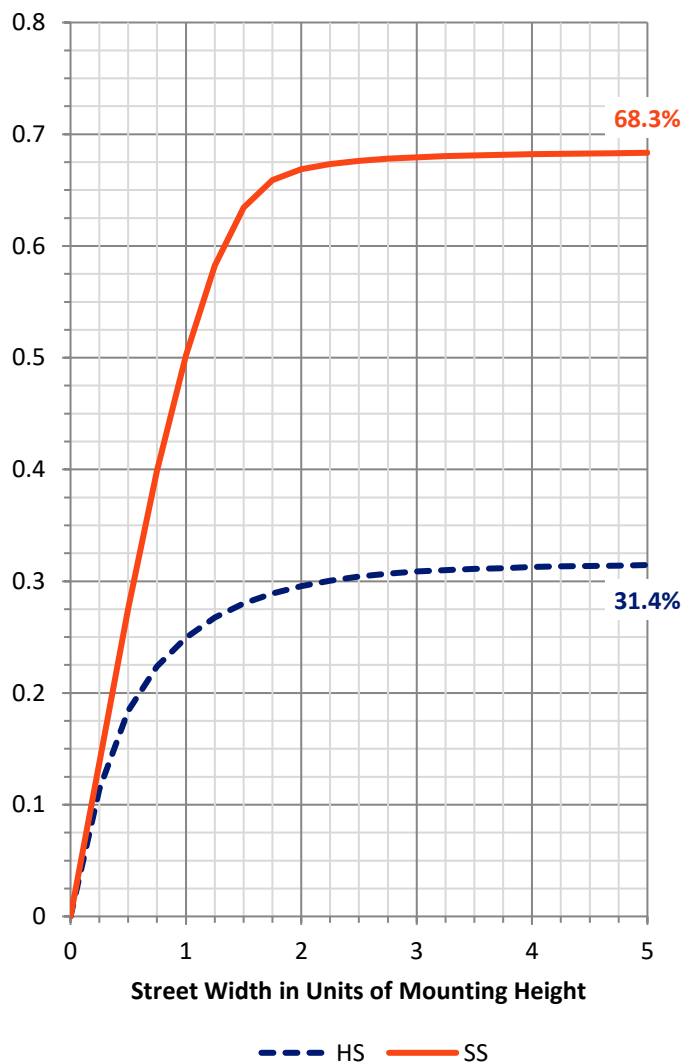
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12406.8	0.0	12406.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	26745.2	0.0	26745.2
	% Fixture	68.3	0.0	68.3
Total	Lumens	39152.0	0.0	39152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.3	2.0
10°-20°	2417.2	6.2
20°-30°	4273.1	10.9
30°-40°	6418.0	16.4
40°-50°	8808.2	22.5
50°-60°	10493.7	26.8
60°-70°	4490.7	11.5
70°-80°	1270.9	3.2
80°-90°	213.9	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°	39152.0	100.0
0°-180°	39152.0	100.0

Coefficient of Utilization

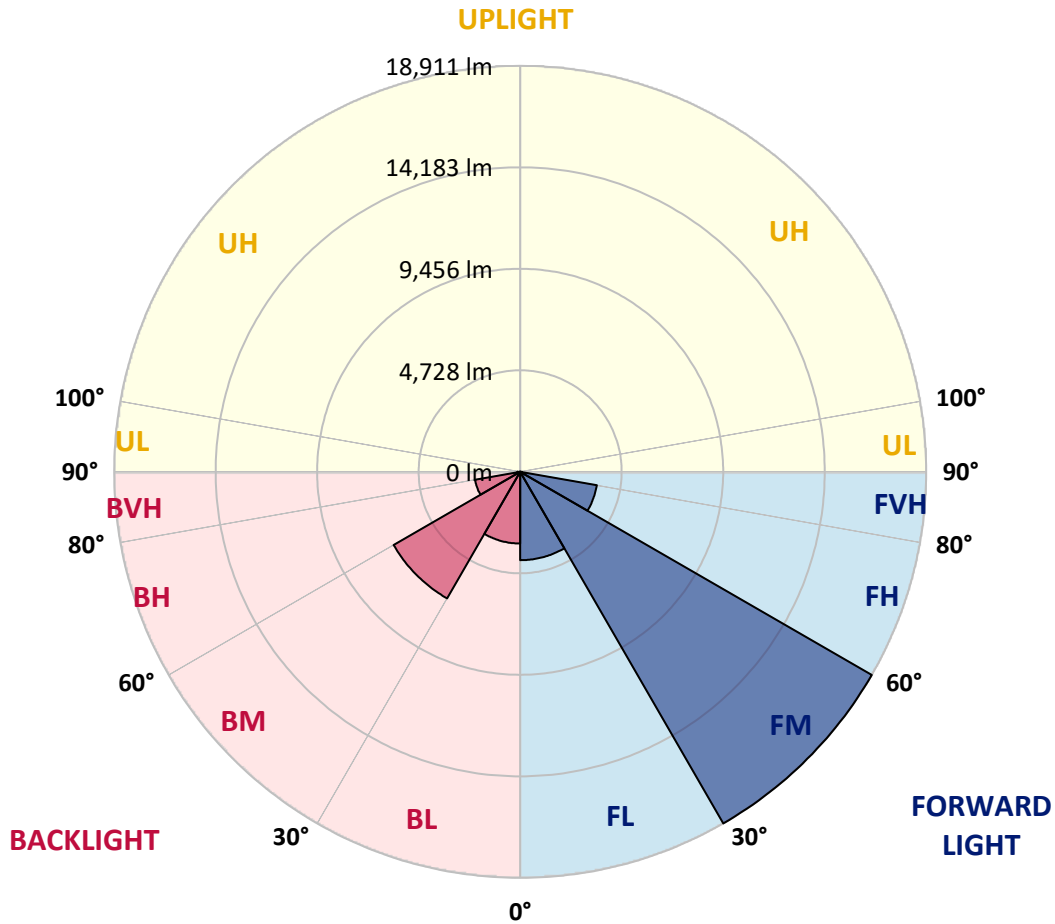


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4116.2	10.5			
FM (30°-60°)	18911.3	48.3			
FH (60°-80°)	3626.9	9.3			G2/5000
FVH (80°-90°)	90.8	0.2			G1/100
BL (0°-30°)	3340.4	8.5	B4/5000		
BM (30°-60°)	6808.6	17.4	B4/8500		
BH (60°-80°)	2134.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	123.1	0.3			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°	47°	55°	65°	75°	85°
0°	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4
2.5°	7834.5	7819.5	7809.5	7889.4	7859.5	7864.4	7834.5	7864.4	7884.4	7839.5	7904.4
5°	7819.5	7864.4	7824.5	7849.5	7914.4	7894.4	7914.4	7974.3	7959.3	7944.3	7924.4
7.5°	7959.3	7964.3	7994.3	8004.3	8024.2	8004.3	8034.2	8089.1	8074.2	7989.3	7999.3
10°	8159.1	8169.0	8174.0	8229.0	8263.9	8268.9	8234.0	8184.0	8179.0	8293.9	8214.0
12.5°	8388.7	8363.8	8423.7	8443.7	8483.6	8528.6	8573.5	8468.6	8533.5	8538.5	8443.7
15°	8723.3	8748.3	8678.4	8678.4	8693.3	8698.3	8823.2	8773.2	8763.2	8708.3	8748.3
17.5°	9222.6	9052.9	9047.9	8978.0	8968.0	9007.9	9052.9	9092.8	9227.6	9117.8	8903.1
20°	9587.1	9627.1	9482.3	9397.4	9412.4	9502.2	9457.3	9637.1	9731.9	9552.2	9342.5
22.5°	10231.3	10096.5	10131.4	9941.7	9956.6	10051.5	10046.5	10231.3	10286.2	10001.6	9697.0
25°	10665.7	10630.7	10660.7	10510.9	10530.9	10605.8	10725.6	11030.2	10940.3	10625.7	9921.7
27.5°	11299.8	11229.9	11205.0	11150.0	11130.1	11329.8	11469.6	11794.2	11729.3	11269.9	10321.2
30°	11949.0	11904.0	11929.0	11704.3	11784.2	12208.6	12248.6	12693.0	12663.0	11854.1	10765.6
32.5°	12398.4	12423.3	12468.3	12343.4	12698.0	13037.5	13172.3	13676.6	13701.6	12857.7	11624.4
35°	13122.4	13037.5	13062.5	13207.3	13372.1	13991.2	14210.9	14545.5	14755.2	13911.3	12448.3
37.5°	13576.8	13666.7	13561.8	13791.5	14220.9	14964.9	15164.7	15509.2	15728.9	14949.9	13571.8
40°	14285.8	14141.0	14215.9	14380.7	14820.1	15788.8	15733.9	16088.4	16158.3	15833.8	14620.4
42.5°	15049.8	14979.9	14875.0	15249.5	15619.0	16323.1	16432.9	16268.2	16622.7	16697.6	16118.4
45°	15963.6	16048.5	16063.4	16073.4	16398.0	17012.2	16862.4	16717.6	17127.0	17671.3	17047.1
47.5°	16812.4	16542.8	16737.5	17007.2	17466.6	17471.6	17646.3	17301.8	17736.2	18220.6	17886.0
50°	17097.1	16967.2	17226.9	17736.2	18445.2	18520.1	18540.1	18050.8	18275.5	18660.0	18175.6
52.5°	16987.2	16942.3	17606.4	18395.3	19433.9	19813.4	19913.3	19309.1	19433.9	19259.2	18814.8
55°	16462.9	16597.7	17266.8	18874.7	20467.5	21641.0	21830.7	21066.7	20272.8	20407.6	19918.3
56°	15743.9	15509.2	16258.2	18330.4	20422.6	22235.2	22390.0	21436.2	20897.0	20722.2	19908.3
57.5°	13357.1	13052.5	14036.2	16492.9	19289.1	22010.5	22125.3	21591.0	20792.1	20437.6	18455.2
60°	7819.5	7969.3	9217.6	11374.7	14880.0	18045.8	18430.3	18819.7	18285.5	16697.6	13736.6
62.5°	3774.9	3680.1	4573.9	6521.2	9067.8	11519.5	11404.7	12498.2	13097.4	11864.1	8673.4
65°	1977.3	1967.4	2496.6	3560.2	4983.3	6051.9	6156.7	6745.9	7569.8	6111.8	4404.1
67.5°	1453.1	1493.0	1757.6	2501.6	3205.7	3270.6	3255.6	3550.2	3630.1	3070.9	2706.4
70°	1138.5	1158.4	1353.2	1902.4	2386.8	2137.1	2092.2	2127.1	2361.8	2461.7	2341.9
72.5°	823.9	843.9	1008.6	1283.3	1493.0	1458.0	1488.0	1682.7	1972.4	2077.2	1952.4
75°	549.3	564.2	654.1	783.9	883.8	953.7	1008.6	1233.3	1503.0	1562.9	1503.0
77.5°	379.5	394.5	454.4	554.3	564.2	609.2	629.2	734.0	898.8	973.7	933.7
80°	214.7	214.7	244.7	284.6	349.5	409.5	419.4	504.3	579.2	629.2	639.1
82.5°	99.9	104.9	129.8	174.8	229.7	284.6	294.6	349.5	404.5	454.4	469.4
85°	49.9	54.9	74.9	104.9	139.8	169.8	164.8	169.8	179.8	169.8	174.8
87.5°	15.0	15.0	20.0	25.0	20.0	25.0	25.0	30.0	35.0	39.9	44.9
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°	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4	7864.4
2.5°	7909.4	7924.4	7824.5	7919.4	7884.4	7879.4	7949.3	7939.3	7964.3	7954.3	7894.4
5°	7914.4	7879.4	7984.3	7889.4	7934.4	8029.2	7964.3	8114.1	8039.2	8089.1	7979.3
7.5°	8069.2	8079.2	8059.2	8099.1	8079.2	8124.1	8089.1	8124.1	8064.2	8069.2	8169.0
10°	8204.0	8174.0	8209.0	8159.1	8194.0	8179.0	8099.1	8074.2	8094.1	8069.2	8134.1
12.5°	8453.7	8398.7	8373.8	8313.8	8273.9	8124.1	7999.3	7929.4	8024.2	8039.2	8009.3
15°	8708.3	8713.3	8598.5	8463.6	8214.0	7989.3	8019.2	8044.2	8044.2	8084.2	8009.3
17.5°	8868.1	8868.1	8763.2	8493.6	8238.9	8109.1	8079.2	7999.3	7929.4	7919.4	7914.4
20°	9147.7	9062.8	8823.2	8488.6	8229.0	8169.0	7944.3	7754.6	7609.8	7559.9	7554.9
22.5°	9467.3	9252.6	8918.0	8498.6	8214.0	8129.1	7709.7	7425.0	7165.4	7055.5	7070.5
25°	9761.9	9417.4	8973.0	8453.7	8159.1	7749.6	7280.2	6885.8	6616.1	6526.2	6481.3
27.5°	9966.6	9592.1	8973.0	8493.6	7954.3	7325.2	6845.8	6341.5	6106.8	6046.9	6056.9
30°	10241.3	9811.8	9127.8	8408.7	7544.9	6775.9	6201.7	5872.1	5732.3	5682.4	5717.3
32.5°	10885.4	10386.1	9342.5	8204.0	7060.5	6226.6	5762.3	5577.5	5372.8	5272.9	5238.0
35°	11584.5	10930.3	9552.2	7859.5	6516.3	5727.3	5437.7	5267.9	5023.3	4913.4	4933.4
37.5°	12573.1	11629.4	9567.2	7290.2	5927.0	5447.7	5183.0	4918.4	4718.7	4548.9	4499.0
40°	13906.3	12583.1	9532.2	6691.0	5452.7	5118.1	4923.4	4593.8	4369.1	4249.3	4274.3
42.5°	15079.8	13701.6	9387.4	6011.9	5023.3	4893.4	4673.7	4349.2	4129.5	4004.6	3994.6
45°	16068.4	14525.5	9112.8	5432.7	4663.7	4643.8	4389.1	4139.4	3964.7	3849.8	3899.8
47.5°	16982.2	15189.6	8698.3	4853.5	4334.2	4374.1	4129.5	3974.7	3864.8	3760.0	3755.0
50°	17311.8	15179.6	8333.8	4374.1	4069.5	4049.6	4039.6	3874.8	3760.0	3670.1	3710.0
52.5°	17861.0	15349.4	7939.3	4044.6	3829.9	3834.9	3869.8	3750.0	3620.1	3565.2	3615.1
55°	18650.0	15374.4	7070.5	3660.1	3630.1	3665.1	3665.1	3585.2	3475.3	3430.4	3405.4
56°	18005.8	14630.4	6341.5	3560.2	3530.3	3530.3	3625.1	3535.3	3400.4	3365.5	3335.5
57.5°	16607.7	12817.8	5307.9	3440.4	3395.4	3465.4	3515.3	3420.4	3295.6	3245.6	3275.6
60°	11454.6	8673.4	3989.6	3180.7	3180.7	3295.6	3335.5	3195.7	3140.8	3135.8	3095.8
62.5°	6686.0	5053.2	3120.8	2946.0	2956.0	3050.9	3080.9	3001.0	2931.1	3016.0	3055.9
65°	3545.2	3016.0	2676.4	2696.4	2701.4	2776.3	2906.1	2901.1	2896.1	2921.1	2926.1
67.5°	2566.6	2506.6	2431.7	2411.8	2421.8	2476.7	2606.5	2706.4	2701.4	2641.5	2596.5
70°	2286.9	2202.0	2157.1	2162.1	2122.2	2187.1	2291.9	2356.8	2242.0	2172.1	2142.1
72.5°	1902.4	1877.5	1847.5	1852.5	1772.6	1757.6	1637.8	1637.8	1607.8	1587.9	1622.8
75°	1453.1	1443.1	1458.0	1433.1	1348.2	1258.3	1188.4	1123.5	1023.6	983.7	963.7
77.5°	918.8	948.7	983.7	928.8	893.8	828.9	759.0	694.1	614.2	569.2	569.2
80°	624.2	649.1	674.1	664.1	624.2	564.2	509.3	439.4	384.5	349.5	344.5
82.5°	474.4	494.3	529.3	489.3	449.4	399.5	354.5	304.6	254.7	214.7	214.7
85°	169.8	194.7	214.7	234.7	249.7	254.7	219.7	179.8	144.8	114.8	109.9
87.5°	44.9	49.9	54.9	49.9	49.9	49.9	54.9	49.9	44.9	35.0	35.0
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)