

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: P651454

Luminaire Tested: **GALN-SA6D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32638.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

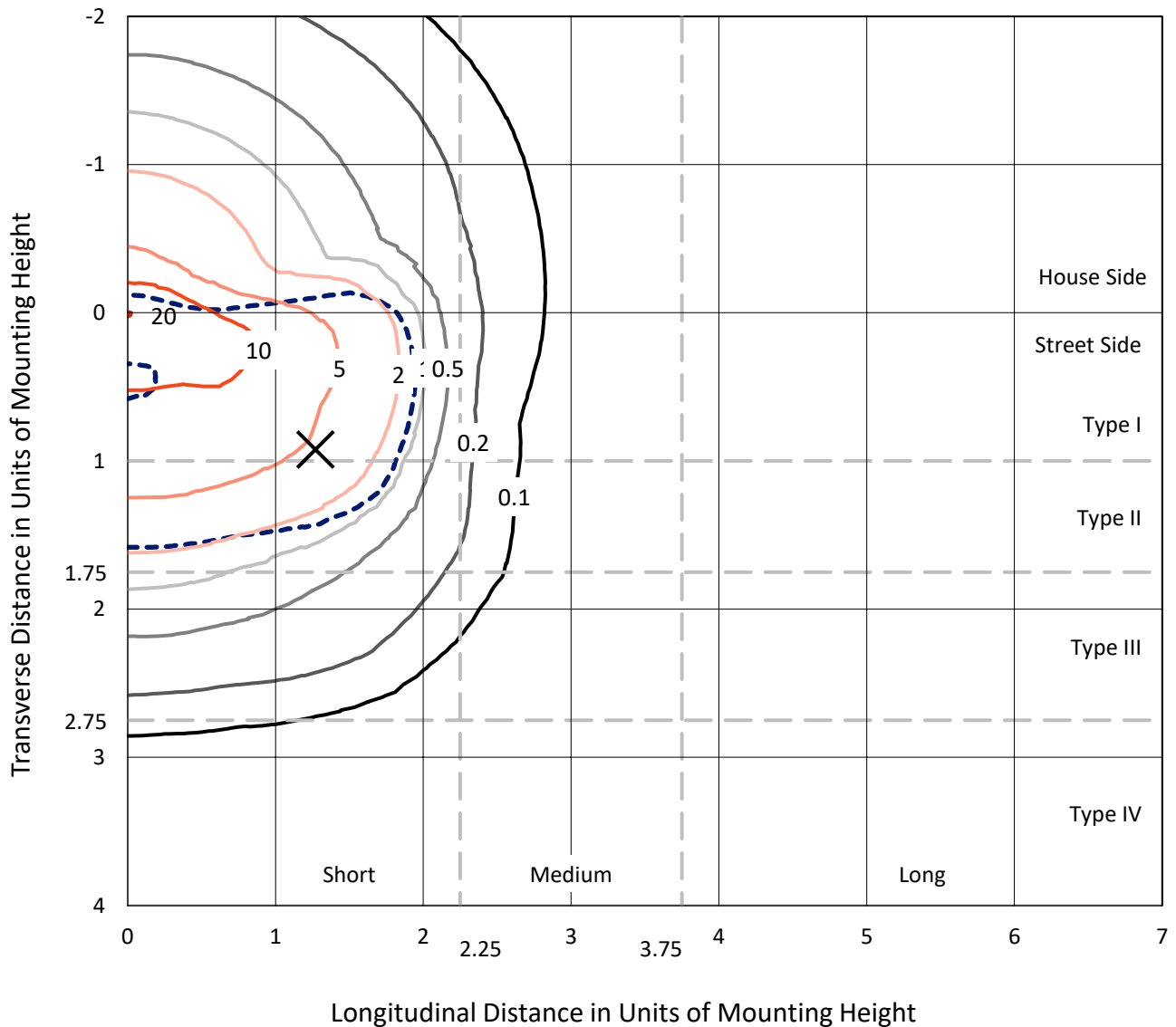
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

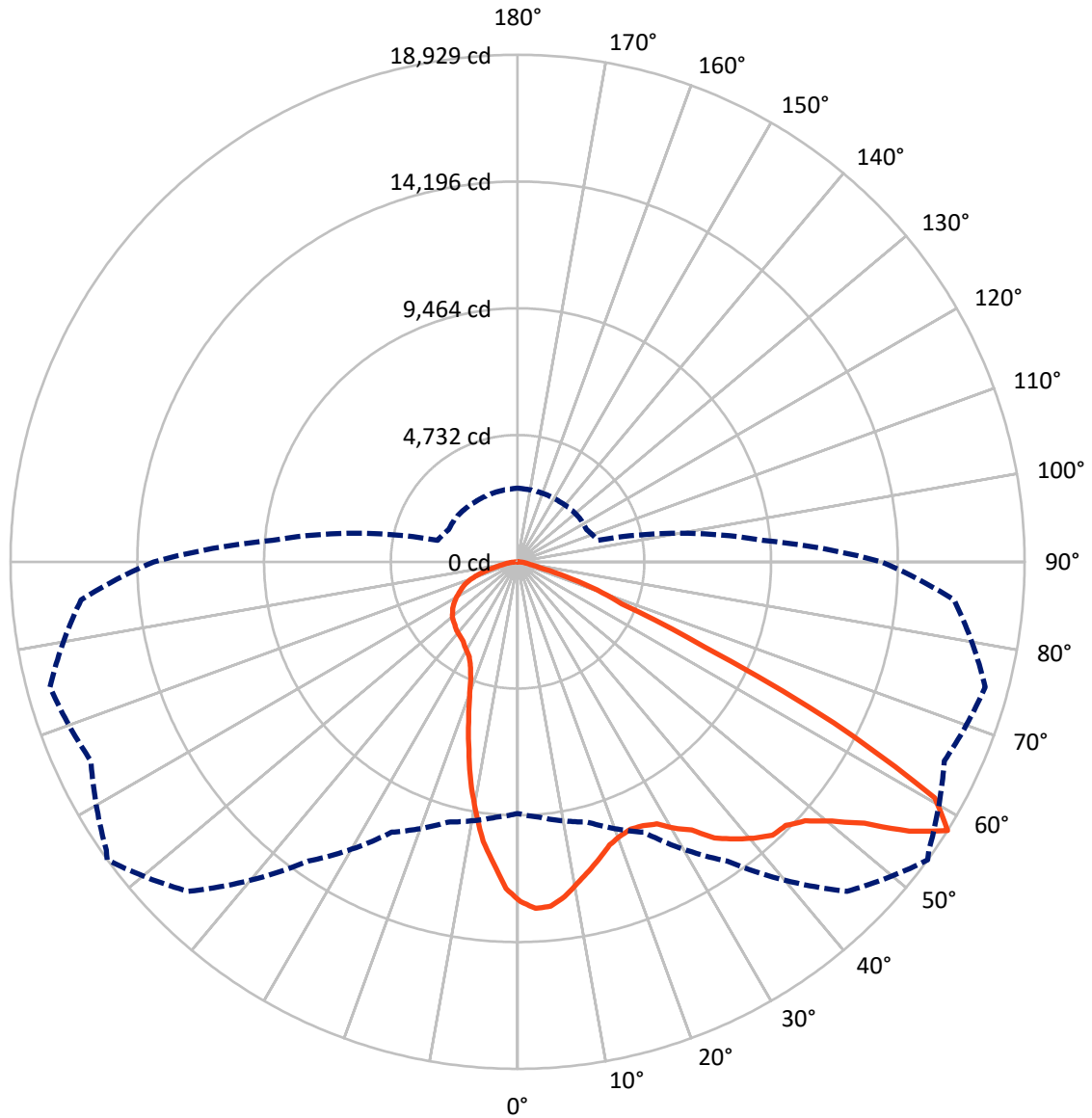
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA6D-840-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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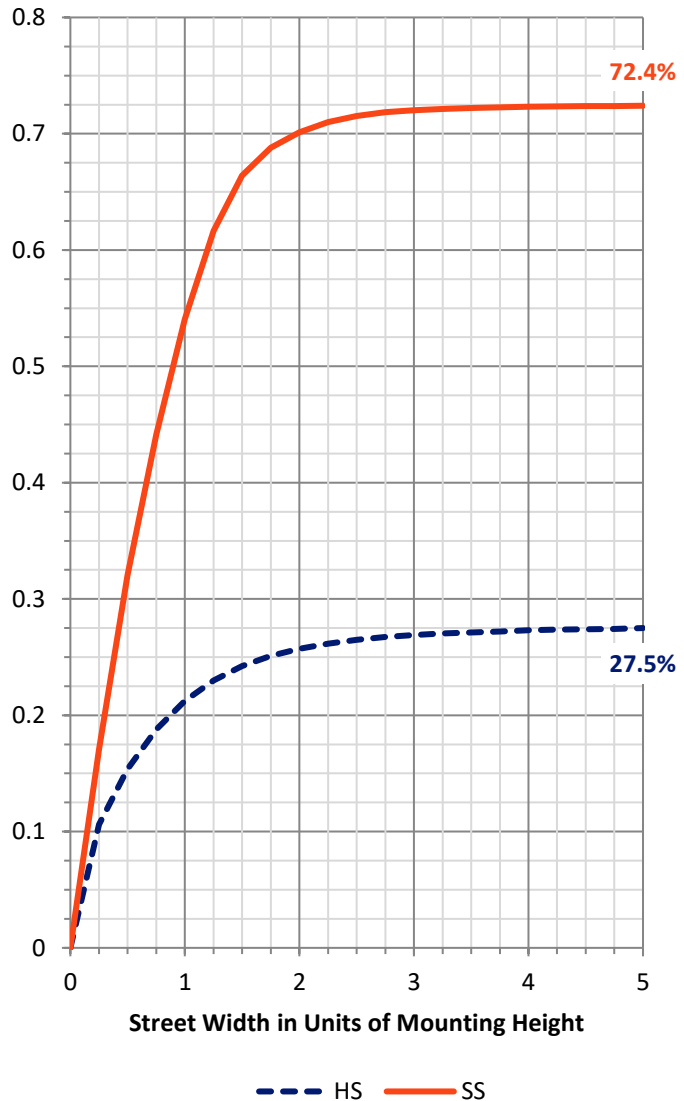
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9029.6	0.0	9029.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23608.8	0.0	23608.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	32638.4	0.0	32638.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.1	3.4
10°-20°	2533.1	7.8
20°-30°	3559.1	10.9
30°-40°	4975.7	15.2
40°-50°	6736.1	20.6
50°-60°	8204.8	25.1
60°-70°	4273.4	13.1
70°-80°	1095.0	3.4
80°-90°	167.0	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°	32638.4	100.0
0°-180°	32638.4	100.0

Coefficient of Utilization

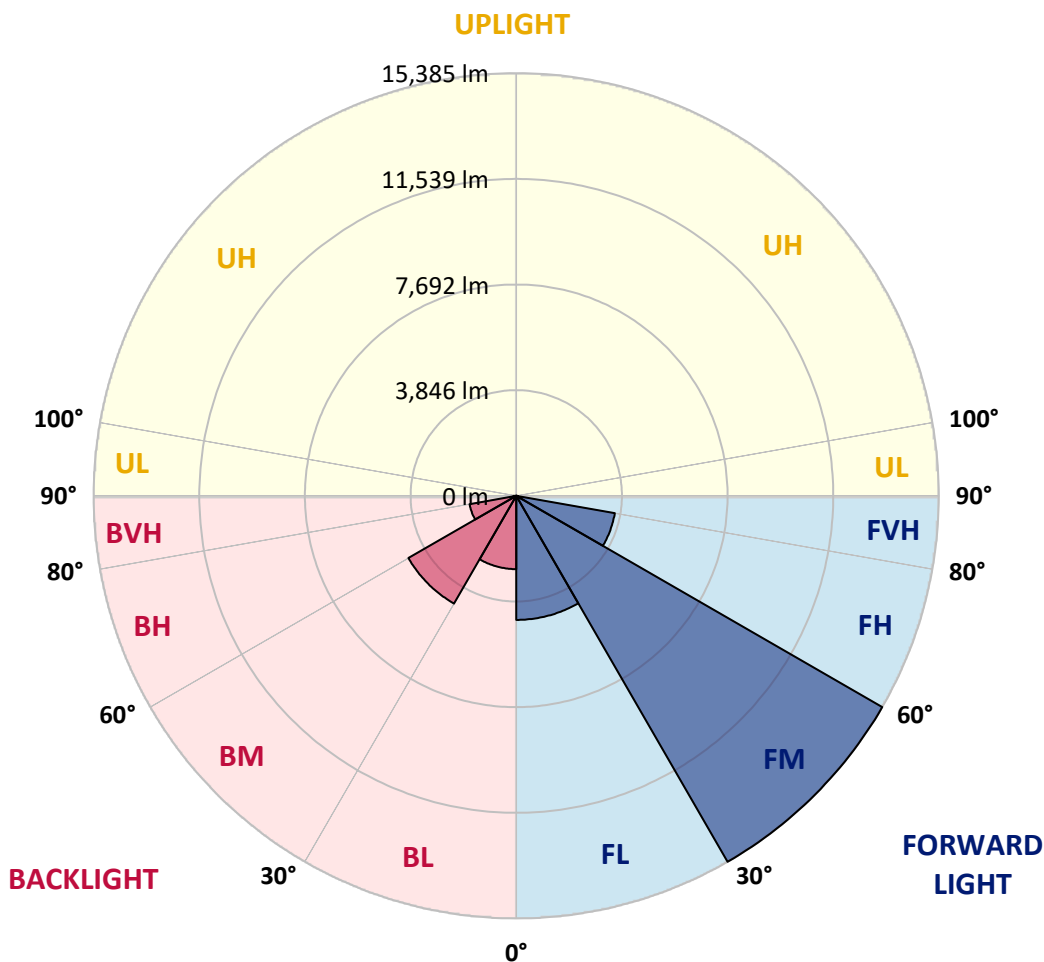


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4517.6	13.8			
FM (30°-60°)	15384.7	47.1			
FH (60°-80°)	3643.4	11.2			G2/5000
FVH (80°-90°)	63.1	0.2			G1/100
BL (0°-30°)	2668.7	8.2	B4/5000		
BM (30°-60°)	4531.9	13.9	B3/5000		
BH (60°-80°)	1725.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	103.9	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°	54°	55°	65°	75°	85°
0°	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1
2.5°	13046.9	12996.6	13005.0	13072.1	12988.2	12954.7	12954.7	12791.0	12803.6	12690.4	12661.0
5°	12744.9	12627.4	12707.2	12807.8	12824.6	12858.1	12912.7	12870.7	12753.3	12631.7	12434.4
7.5°	11956.2	12061.1	12090.5	12161.8	12312.8	12451.3	12623.2	12505.8	12501.5	12379.9	12262.5
10°	11264.0	11201.1	11360.5	11465.4	11717.1	11947.8	12212.1	12199.5	12262.5	12124.0	11922.6
12.5°	10576.0	10525.6	10601.1	10840.3	11192.7	11528.3	11843.0	11725.5	12061.1	12035.9	11603.8
15°	9846.0	9883.8	9992.8	10215.2	10676.7	11079.4	11478.0	11482.2	11780.0	11880.7	11301.8
17.5°	9334.3	9292.3	9430.7	9762.2	10173.2	10655.7	11108.8	11201.1	11658.4	11717.1	11209.4
20°	8952.4	9011.2	9191.6	9359.4	9833.5	10416.5	10928.4	10961.9	11633.2	11792.6	11062.6
22.5°	8860.2	8826.6	8885.3	9158.1	9548.2	10181.7	10831.9	10957.7	11629.0	11767.4	10785.7
25°	8763.7	8872.8	8868.6	9141.2	9426.5	9992.8	10911.6	11050.1	11851.3	11897.5	10823.5
27.5°	8981.8	8969.3	9086.8	9107.7	9460.1	10043.2	11079.4	11184.3	12220.5	12182.7	10852.9
30°	9200.0	9137.0	9208.4	9455.9	9619.5	10332.7	11540.9	11532.5	12698.8	12673.5	10945.2
32.5°	9468.5	9439.1	9485.2	9703.4	9980.3	10718.6	11931.0	12178.5	13185.4	13344.8	11264.0
35°	9518.8	9640.5	9749.5	10043.2	10437.6	11343.7	12665.2	12870.7	13747.6	14246.8	11872.3
37.5°	9837.7	9883.8	10139.7	10659.9	11020.7	12178.5	13130.9	13260.9	14259.3	14825.7	12514.2
40°	10177.4	10232.0	10618.0	11163.3	11658.4	12723.9	13567.2	13609.1	14423.0	15270.4	12933.7
42.5°	10638.9	10689.3	11071.0	11754.8	12417.7	13189.6	13953.1	13999.3	14410.4	15782.2	13600.7
45°	11117.2	11238.9	11687.7	12463.8	13059.6	13735.0	14041.2	14230.0	14527.9	16239.5	14141.9
47.5°	11788.4	11901.7	12270.9	13030.2	13726.5	14213.2	14448.1	14632.7	14808.9	16638.0	14490.1
50°	12501.5	12522.6	12971.4	13659.4	14171.3	14754.3	15207.5	15270.4	15178.1	17099.5	15081.6
52.5°	13026.0	13093.1	13441.3	14112.5	14876.0	15593.4	16214.3	16281.4	16101.0	17271.4	15283.0
55°	12157.6	12119.8	12686.1	13579.7	15350.1	16843.5	17745.5	17795.9	16772.2	17804.2	15941.6
57.5°	9397.2	9577.6	10060.0	11138.1	13638.5	17397.3	18928.6	18748.2	17577.7	18072.8	16361.2
60°	6829.7	6787.8	7110.8	7832.4	10278.1	14993.5	17896.6	18081.2	16919.1	16289.8	13491.7
62.5°	5562.8	5504.0	5529.2	5554.4	6632.5	9950.9	13248.3	13244.2	13030.2	11708.7	9099.3
65°	4446.9	4585.3	4597.9	4786.6	4925.1	5944.5	7677.2	8088.2	7043.7	5776.7	4191.0
67.5°	3352.0	3301.6	3469.4	4140.7	4400.7	4291.6	4191.0	4237.1	3012.1	2173.1	2047.2
70°	1975.9	1954.9	2156.3	2886.2	3624.6	3410.7	3159.0	3163.2	2068.2	1518.7	1690.7
72.5°	1082.4	1078.2	1120.1	1464.1	2059.9	2139.5	1896.2	1954.9	1233.4	1229.2	1321.5
75°	604.1	591.6	578.9	646.1	742.5	784.5	801.3	809.6	847.4	948.1	985.9
77.5°	222.4	214.0	214.0	247.5	314.6	394.3	499.2	507.6	599.9	688.0	725.8
80°	75.5	83.9	113.3	155.2	209.7	281.1	339.8	348.2	423.7	482.5	495.0
82.5°	46.2	50.4	75.5	109.1	151.0	197.2	251.7	255.9	314.6	352.4	369.2
85°	20.9	25.1	42.0	67.1	96.5	130.0	134.2	134.2	130.0	134.2	125.8
87.5°	0.0	0.0	8.4	8.4	8.4	12.6	16.8	12.6	20.9	25.1	25.1
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°	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1	12686.1
2.5°	12572.9	12526.8	12384.1	12258.2	12220.5	12052.7	11805.2	11834.6	11654.2	11738.1	11650.0
5°	12400.9	12245.6	11880.7	11725.5	11318.5	11133.9	11008.1	10693.5	10546.6	10517.3	10391.4
7.5°	11960.4	11863.9	11406.7	10987.2	10555.1	10185.9	9711.8	9388.8	9158.1	9095.1	8910.5
10°	11612.2	11398.2	10764.8	10127.2	9510.4	8868.6	8251.9	7769.4	7534.5	7261.8	7169.5
12.5°	11268.2	10945.2	10089.4	9271.3	8474.3	7664.5	6917.8	6330.5	5818.7	5697.0	5655.1
15°	11054.3	10492.1	9485.2	8499.4	7366.7	6309.5	5562.8	5176.9	4862.2	4732.1	4824.4
17.5°	10773.1	10118.7	8906.4	7593.2	6347.3	5374.0	4749.0	4509.8	4396.5	4409.1	4371.3
20°	10420.7	9766.4	8147.0	6771.0	5436.9	4660.8	4304.2	4216.1	4232.9	4262.3	4249.7
22.5°	10169.0	9338.5	7597.4	5932.0	4698.6	4266.5	4119.6	4056.7	4111.2	4136.5	4115.4
25°	9976.1	8973.5	6930.4	5189.4	4270.7	4044.1	3977.0	3972.8	4056.7	4090.3	4069.3
27.5°	9799.9	8633.6	6267.6	4623.1	3985.4	3872.1	3851.2	3901.5	3956.1	3989.6	4019.0
30°	9695.0	8373.5	5646.6	4149.0	3842.8	3788.2	3750.4	3796.6	3826.0	3859.5	3842.8
32.5°	9795.7	8189.0	5046.8	3880.5	3725.3	3670.8	3721.1	3691.7	3742.1	3771.5	3725.3
35°	10110.3	8025.3	4618.9	3737.9	3591.1	3612.0	3620.4	3607.8	3628.8	3603.6	3658.2
37.5°	10420.7	7966.6	4224.5	3616.2	3528.2	3528.2	3519.8	3494.6	3536.5	3528.2	3553.3
40°	10815.1	8004.4	3889.0	3486.2	3469.4	3461.0	3427.4	3423.3	3406.5	3410.7	3419.1
42.5°	11159.1	8088.2	3695.9	3402.3	3414.9	3431.6	3368.7	3318.3	3339.4	3297.4	3297.4
45°	11524.1	8163.8	3524.0	3343.6	3330.9	3326.7	3276.5	3247.0	3230.3	3234.5	3272.2
47.5°	12098.9	8272.8	3393.9	3263.8	3272.2	3209.3	3196.7	3159.0	3175.7	3200.9	3205.1
50°	12505.8	8503.6	3293.2	3171.6	3200.9	3159.0	3083.4	3066.6	3066.6	3108.6	3100.3
52.5°	12791.0	8826.6	3196.7	3070.8	3083.4	3049.9	3024.7	2987.0	2961.7	3020.5	3049.9
55°	13663.6	9363.6	3171.6	2987.0	2982.8	2949.2	2903.0	2865.3	2852.7	2861.1	2919.9
57.5°	13579.7	9195.7	3091.9	2840.1	2831.7	2785.6	2739.5	2726.9	2722.7	2731.1	2747.8
60°	11024.8	6792.0	2760.4	2672.3	2659.7	2651.3	2605.2	2554.9	2529.6	2554.9	2533.8
62.5°	7295.4	4547.5	2433.2	2470.9	2479.4	2458.3	2382.9	2332.5	2340.9	2370.3	2324.1
65°	3582.7	2672.3	2206.6	2307.4	2315.7	2257.0	2185.7	2127.0	2097.5	2122.8	2101.7
67.5°	2047.2	2043.0	2022.1	2127.0	2122.8	2064.0	1950.8	1900.4	1850.0	1858.4	1845.9
70°	1736.8	1770.4	1812.3	1875.3	1871.1	1803.9	1669.6	1631.9	1560.6	1552.2	1531.2
72.5°	1367.6	1426.3	1518.7	1564.8	1527.0	1443.2	1355.0	1292.1	1229.2	1191.4	1204.0
75°	1015.3	1099.1	1149.5	1178.8	1120.1	1074.0	1002.6	927.1	851.6	818.0	805.5
77.5°	738.3	763.5	809.6	830.7	792.9	746.7	704.8	629.2	557.9	511.8	499.2
80°	516.0	532.8	566.3	566.3	566.3	545.4	490.8	415.3	369.2	327.2	318.8
82.5°	360.8	377.5	411.2	394.3	390.1	365.0	331.4	272.7	222.4	193.0	184.6
85°	125.8	138.4	167.8	201.3	214.0	209.7	188.8	151.0	117.5	96.5	88.1
87.5°	29.4	29.4	33.6	29.4	29.4	33.6	29.4	29.4	29.4	20.9	16.8
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)