

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: P652605

Luminaire Tested: **GALN-SA9B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36770.2 lumens
Efficiency: N/A
Efficacy: 101.0 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

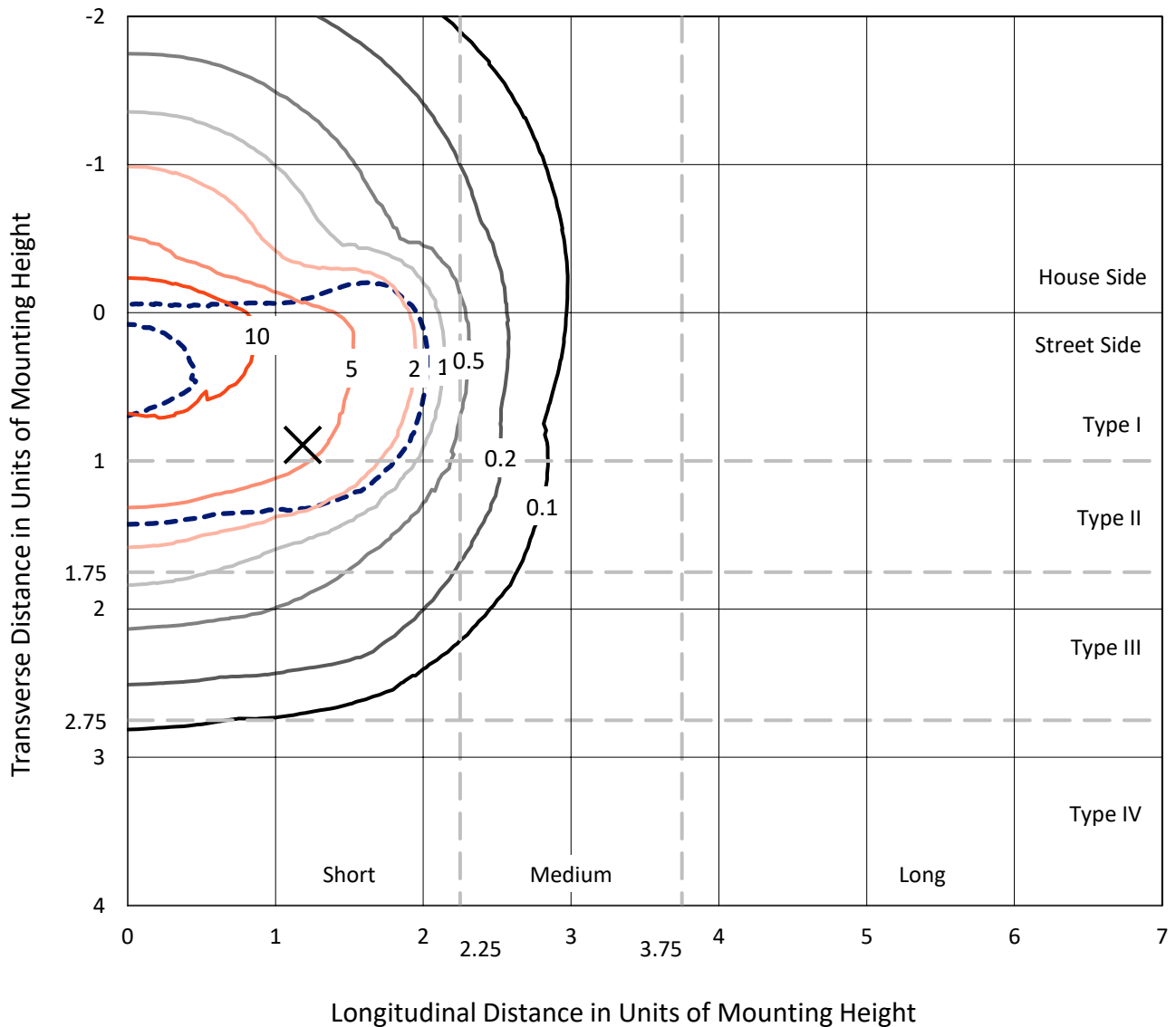
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

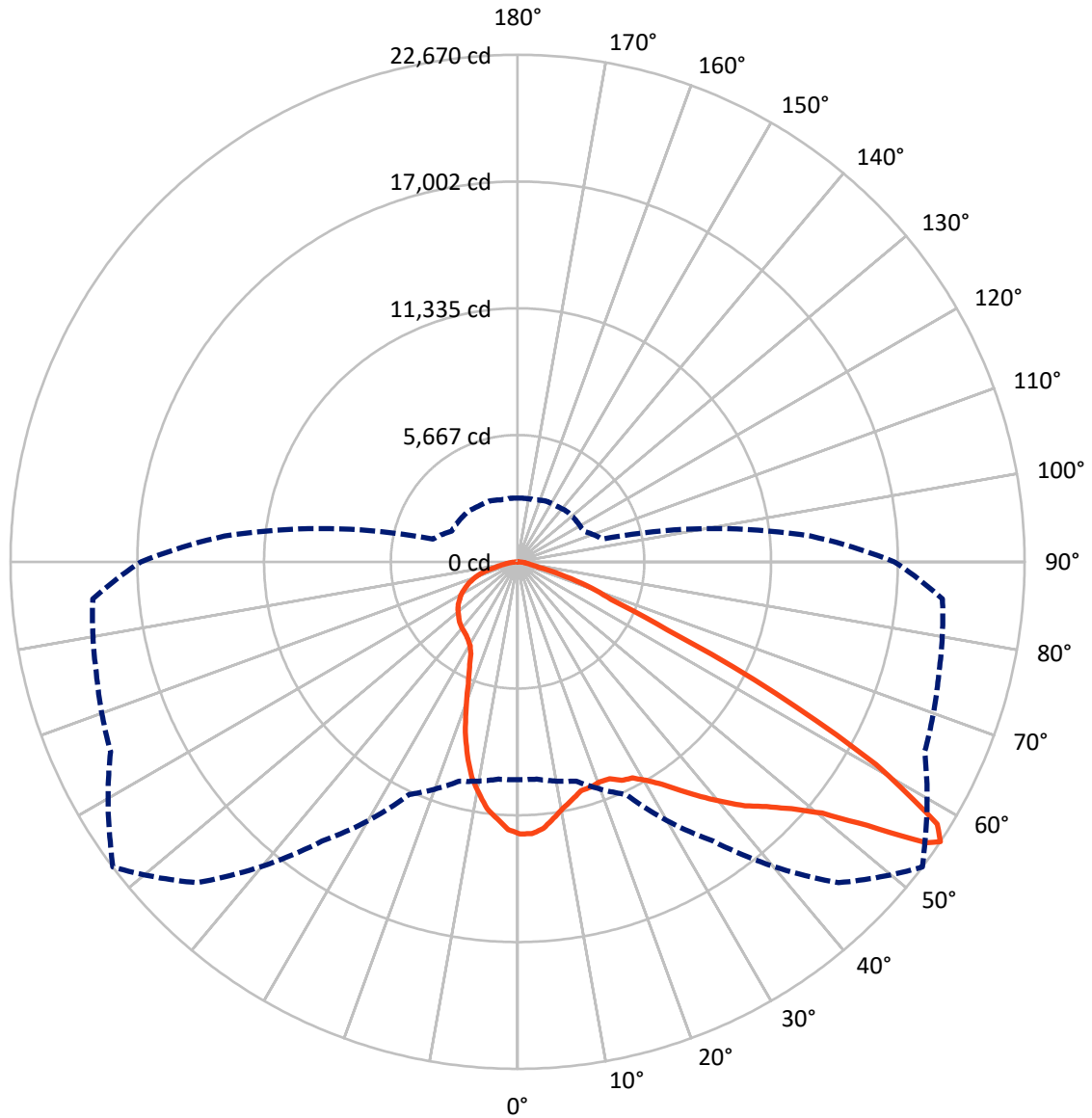
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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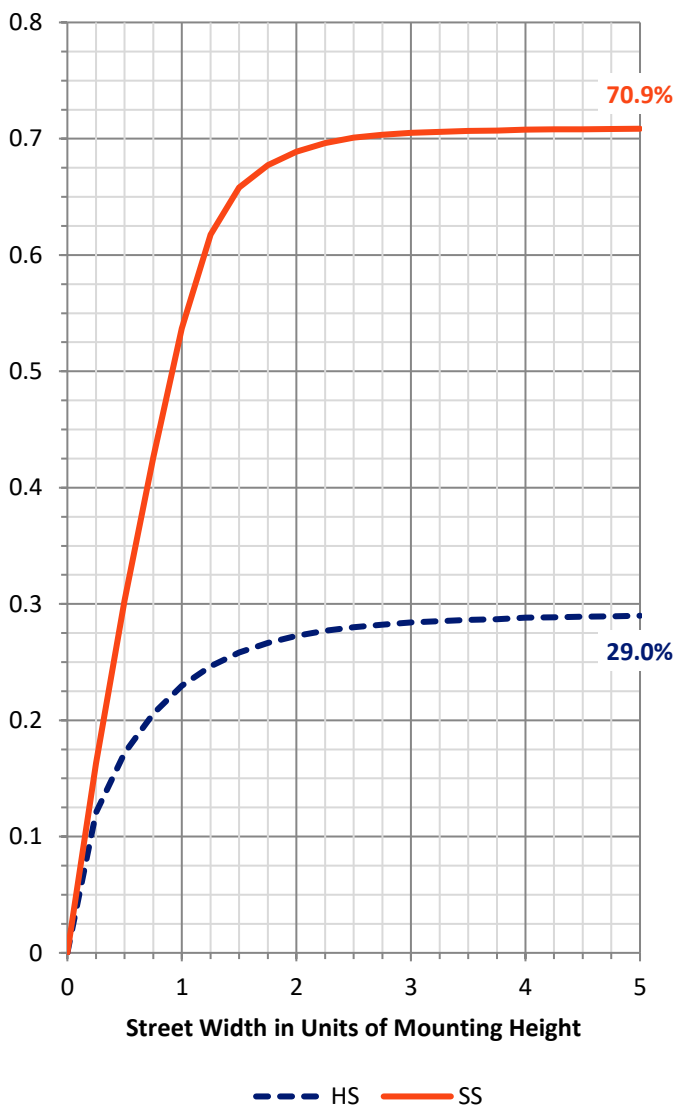
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10730.4	0.0	10730.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	26039.9	0.0	26039.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	36770.2	0.0	36770.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.9	2.9
10°-20°	2689.8	7.3
20°-30°	3966.3	10.8
30°-40°	5667.1	15.4
40°-50°	7799.9	21.2
50°-60°	9217.4	25.1
60°-70°	4912.3	13.4
70°-80°	1246.2	3.4
80°-90°	194.3	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°	36770.2	100.0
0°-180°	36770.2	100.0

Coefficient of Utilization

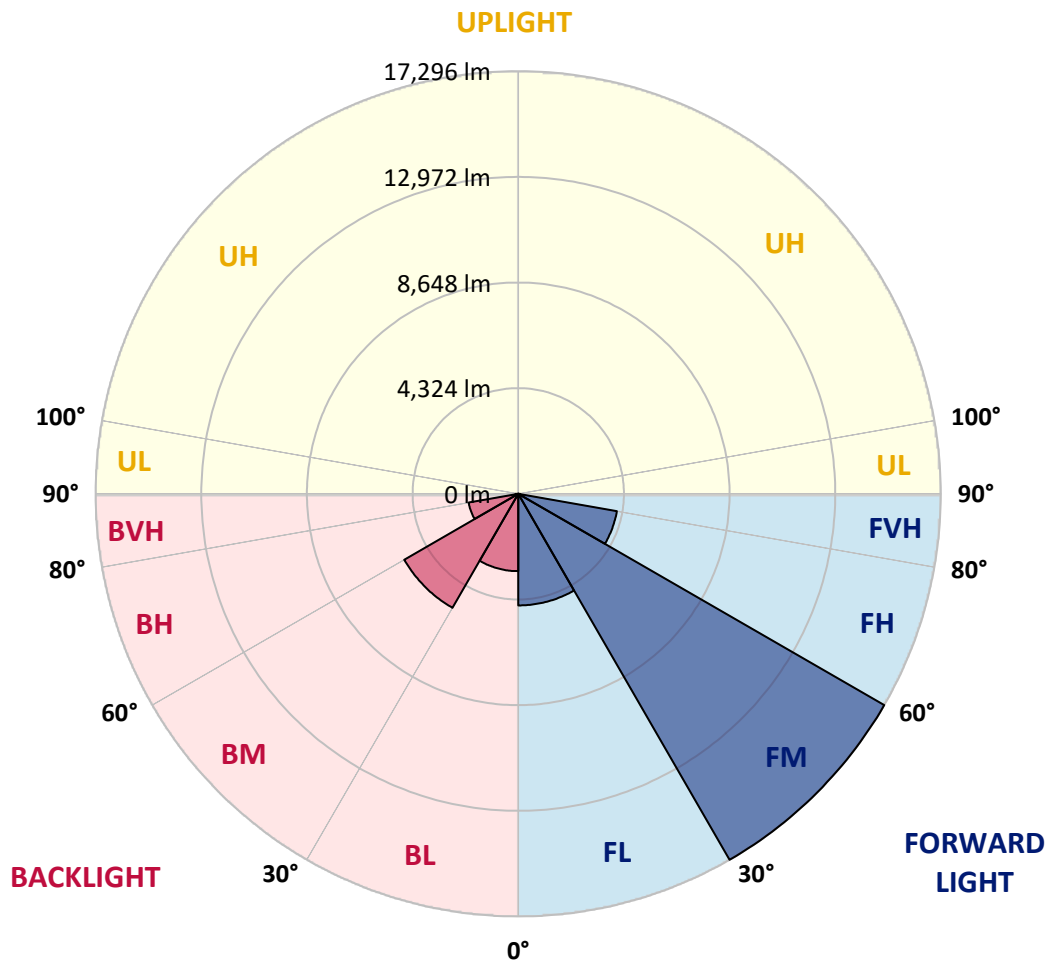


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4568.2	12.4			
FM (30°-60°)	17296.0	47.0			
FH (60°-80°)	4097.6	11.1			G2/5000
FVH (80°-90°)	78.1	0.2			G1/100
BL (0°-30°)	3164.8	8.6	B4/5000		
BM (30°-60°)	5388.4	14.7	B4/8500		
BH (60°-80°)	2060.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	116.2	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°	53°	55°	65°	75°	85°
0°	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1
2.5°	12014.1	11910.3	11971.6	11948.1	12141.4	12198.0	12169.8	12193.3	12301.8	12249.9	12141.4
5°	11226.3	11372.6	11400.8	11471.7	11584.9	11806.5	11981.1	12028.2	12080.1	12320.6	12297.1
7.5°	10509.4	10608.5	10556.6	10764.1	11009.4	11367.9	11580.1	11617.8	12094.3	12226.4	12325.4
10°	10056.6	9957.5	10193.3	10249.9	10528.2	10938.6	11193.4	11349.0	11783.0	12306.5	12367.8
12.5°	9636.8	9603.7	9745.3	9905.6	10216.9	10641.4	10900.9	10962.2	11632.0	12183.9	12471.6
15°	9325.4	9287.7	9429.2	9547.1	9910.3	10287.7	10617.9	10792.4	11467.0	12113.2	12382.0
17.5°	9080.1	9075.4	9155.6	9367.9	9740.5	10056.6	10589.5	10599.0	11382.0	12221.7	12457.5
20°	9066.0	9061.3	9075.4	9311.3	9650.9	10037.7	10500.0	10584.8	11382.0	12146.1	12462.2
22.5°	9183.9	9108.5	9193.3	9344.3	9589.6	10070.7	10532.9	10721.7	11655.6	12518.8	12674.5
25°	9372.6	9391.4	9438.6	9490.5	9632.1	10146.2	10825.4	10981.1	11976.3	12839.5	12966.9
27.5°	9716.9	9707.5	9726.3	9754.7	9877.3	10216.9	10943.3	11344.2	12646.2	13410.3	13282.9
30°	10221.7	10188.6	10264.1	10363.1	10249.9	10443.4	11334.8	11636.7	13268.8	13985.7	13636.7
32.5°	10679.2	10801.8	10943.3	10985.8	10849.0	10886.7	11853.7	12160.4	13787.7	14693.3	14070.7
35°	11250.0	11349.0	11537.7	11669.7	11646.2	11533.0	12561.3	12966.9	14537.7	15212.2	14528.2
37.5°	11806.5	11924.5	12235.8	12627.3	12410.3	12358.4	13316.0	13650.9	14768.8	15490.5	14863.2
40°	12702.8	12698.0	13235.7	13438.6	13632.0	13542.4	14098.9	14212.2	14891.4	15429.2	14872.6
42.5°	13754.6	13688.6	14235.8	14551.8	14801.9	14811.3	14915.1	14877.3	14948.0	15117.8	14773.5
45°	14754.7	14896.1	15448.0	16014.1	16264.1	16292.4	15603.7	15532.9	15047.1	15028.2	14584.8
47.5°	15976.3	16009.4	16462.2	17207.4	17787.7	17589.5	16495.2	16339.5	15481.0	15627.3	14900.8
50°	16047.1	16292.4	16698.1	17575.4	19358.4	19306.5	17650.8	17358.4	16179.2	16476.4	15783.0
52.5°	14566.0	14509.4	14990.5	16424.5	19240.5	21014.1	19565.9	18867.8	17679.2	17452.8	17212.2
55°	11099.0	11231.1	11655.6	13103.7	16707.5	21037.6	22174.4	21603.7	19283.0	18896.1	18617.8
56°	9735.8	9754.7	10155.6	11476.4	15245.2	20287.6	22669.7	22207.4	20080.1	19490.4	19066.0
57.5°	8070.7	7962.3	8169.8	8891.5	12867.9	18702.7	22127.2	22580.1	21014.1	20131.9	19542.3
60°	6353.8	6330.1	6245.3	6377.3	8132.0	14089.5	18419.8	19438.5	20919.7	19528.2	18716.9
62.5°	5188.6	5070.7	5240.5	5429.2	5650.9	8740.5	12943.3	13542.4	16608.4	15589.5	14061.3
65°	4023.6	3967.0	4179.3	4792.4	4924.5	5551.9	7372.6	7834.8	9806.6	9632.1	8481.1
67.5°	2768.8	2778.3	2962.3	3896.2	4566.0	4509.4	4514.2	4754.7	5117.9	3801.9	3311.3
70°	1754.7	1750.0	1849.0	2509.5	3674.5	3712.3	3523.5	3452.8	3273.6	1981.1	2099.1
72.5°	1127.4	1094.3	1146.2	1386.8	1900.9	2198.1	2264.1	2306.6	1896.2	1556.6	1688.6
75°	636.8	603.8	584.9	646.2	750.0	867.9	952.9	981.1	1099.0	1179.3	1250.0
77.5°	193.4	174.5	212.3	283.0	372.6	500.0	608.5	627.4	740.6	834.9	905.7
80°	84.9	94.4	132.0	188.6	264.2	353.8	429.2	457.5	533.0	603.8	622.7
82.5°	51.9	56.6	89.7	127.3	183.9	250.0	306.6	316.0	391.5	448.1	462.3
85°	18.8	23.5	47.2	75.4	117.9	160.4	160.4	174.5	160.4	160.4	174.5
87.5°	0.0	0.0	4.7	9.4	9.4	14.1	18.8	18.8	23.5	28.3	33.1
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°	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1	12165.1
2.5°	12198.0	12174.5	12136.7	12000.0	11985.8	11943.3	11707.5	11669.7	11707.5	11594.3	11603.7
5°	12174.5	12245.2	11962.2	11825.4	11570.7	11386.7	11174.5	11066.0	10872.6	10749.9	10886.7
7.5°	12278.3	12249.9	11896.2	11599.0	11216.9	10749.9	10377.3	10165.1	9825.4	9731.0	9801.9
10°	12240.5	12089.5	11674.5	11282.9	10561.3	10150.9	9547.1	8962.2	8641.4	8476.4	8452.8
12.5°	12188.6	12146.1	11452.7	10778.3	10018.8	9155.6	8306.6	7754.7	7231.1	7004.7	7037.7
15°	12249.9	11891.5	11037.7	10183.9	9174.5	8042.4	7127.3	6415.1	6051.8	5905.7	5905.7
17.5°	12221.7	11768.8	10839.6	9518.9	8240.5	6900.9	5896.2	5466.9	5316.0	5316.0	5358.4
20°	12235.8	11849.0	10438.7	8853.7	7136.7	5811.3	5080.1	4924.5	4990.6	5014.1	5037.7
22.5°	12315.9	11584.9	10047.1	8122.6	6113.1	4971.7	4613.2	4617.9	4735.8	4863.2	4839.6
25°	12415.0	11481.1	9570.7	7396.2	5330.2	4561.3	4448.0	4433.9	4523.6	4589.6	4599.0
27.5°	12330.2	11301.9	9084.8	6490.5	4688.7	4287.8	4264.1	4273.5	4301.9	4433.9	4391.4
30°	12608.4	11353.8	8476.4	5731.1	4334.9	4198.1	4169.8	4155.6	4198.1	4235.9	4202.8
32.5°	12952.7	11169.7	8023.6	5000.0	4160.3	4132.1	4075.5	4056.6	4080.2	4042.4	4061.3
35°	13103.7	11136.8	7433.9	4476.4	4023.6	4000.0	3967.0	3962.2	3967.0	3933.9	3905.6
37.5°	13188.6	11292.4	6759.4	4235.9	3938.7	3962.2	3886.8	3877.3	3792.4	3811.3	3825.5
40°	13334.8	11051.8	6212.2	4004.7	3886.8	3839.6	3773.6	3759.4	3702.8	3669.8	3702.8
42.5°	13122.5	10981.1	5674.5	3905.6	3811.3	3759.4	3712.3	3632.0	3613.2	3584.8	3566.0
45°	12952.7	10575.4	5193.3	3783.0	3721.7	3693.3	3603.8	3518.8	3448.1	3476.4	3434.0
47.5°	13080.2	10434.0	4716.9	3679.2	3599.1	3566.0	3476.4	3410.3	3339.6	3306.6	3297.1
50°	13589.6	10698.0	4316.0	3603.8	3495.3	3476.4	3358.4	3283.0	3217.0	3193.4	3202.8
52.5°	14806.6	11419.8	4042.4	3448.1	3396.2	3311.3	3245.3	3150.9	3108.5	3033.0	3080.2
55°	16349.0	12594.3	3971.7	3301.9	3273.6	3198.1	3108.5	3037.7	2957.5	2896.2	2882.0
56°	16844.2	13155.6	3915.1	3245.3	3198.1	3155.7	3037.7	2995.3	2867.9	2853.8	2844.3
57.5°	17245.2	13650.9	3924.5	3136.8	3089.6	3051.9	2981.1	2877.3	2792.5	2740.6	2764.1
60°	16339.5	12778.2	3745.2	2971.7	2962.3	2891.5	2792.5	2745.3	2641.5	2580.2	2566.1
62.5°	12146.1	8674.5	3037.7	2759.4	2754.7	2679.3	2566.1	2514.2	2495.2	2410.4	2410.4
65°	6995.3	5438.7	2627.4	2584.9	2547.1	2471.7	2358.5	2316.0	2268.8	2240.6	2217.0
67.5°	2985.8	2820.7	2386.8	2382.0	2339.6	2245.3	2132.1	2066.0	2004.7	1948.1	1976.4
70°	2165.1	2198.1	2155.7	2132.1	2080.2	1962.2	1863.2	1783.0	1688.6	1651.0	1679.2
72.5°	1717.0	1787.7	1849.0	1853.7	1792.4	1655.7	1547.2	1438.7	1334.9	1283.0	1306.6
75°	1301.9	1349.0	1410.4	1424.5	1334.9	1240.6	1136.8	1023.6	943.3	882.0	891.5
77.5°	938.6	929.2	985.8	976.4	933.9	867.9	773.6	669.8	580.2	523.6	528.3
80°	641.5	655.6	688.7	684.0	632.1	589.6	518.9	434.0	367.9	320.8	311.3
82.5°	448.1	471.7	500.0	476.4	434.0	391.5	339.6	278.3	226.4	188.6	179.2
85°	160.4	183.9	212.3	226.4	240.5	231.1	193.4	155.7	113.2	94.4	89.7
87.5°	33.1	37.8	42.5	42.5	42.5	37.8	33.1	33.1	28.3	14.1	14.1
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)