

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: P531456

Luminaire Tested: **GALN-SA6D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531456
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-SA6D-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 35410 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

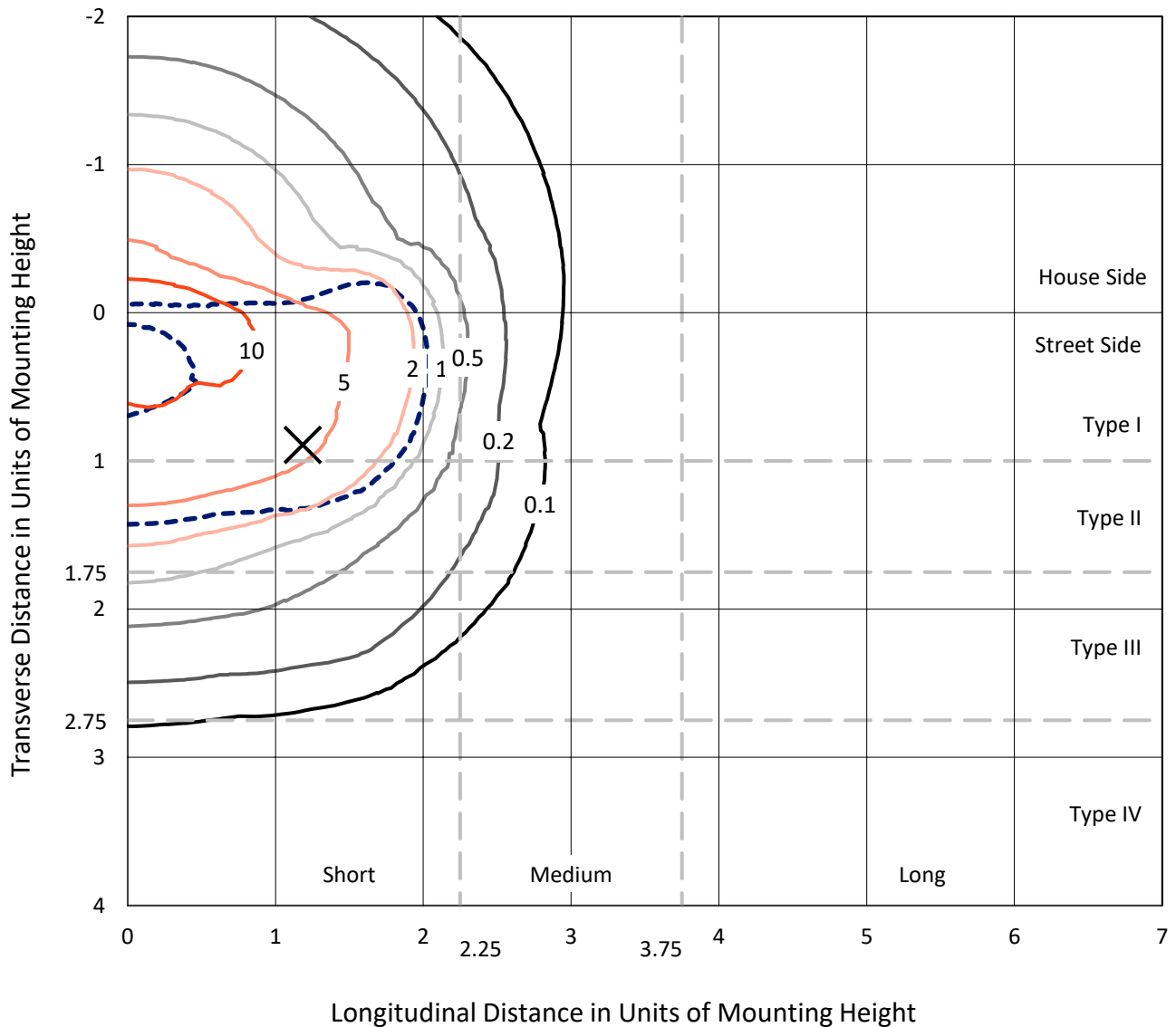
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

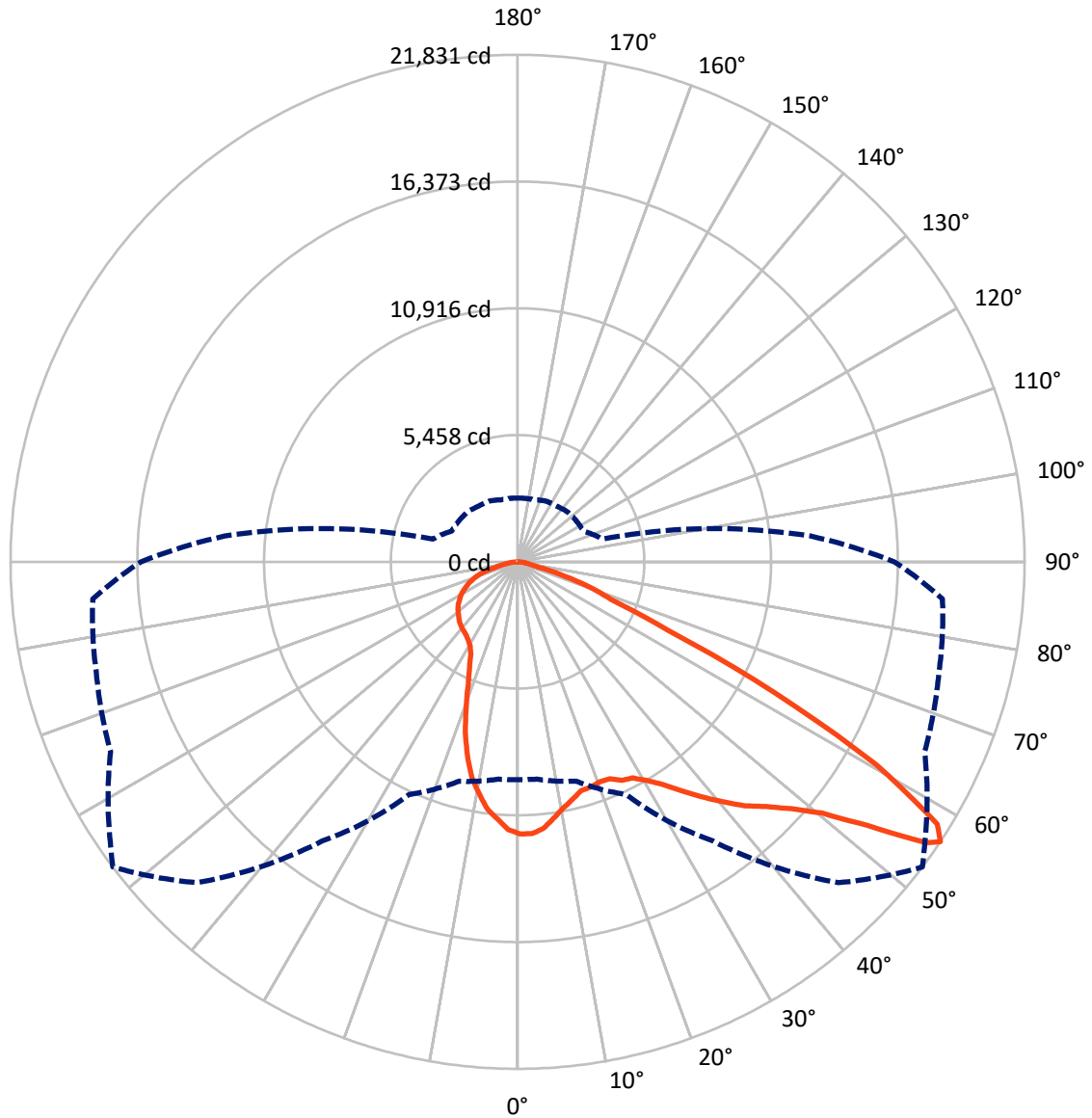
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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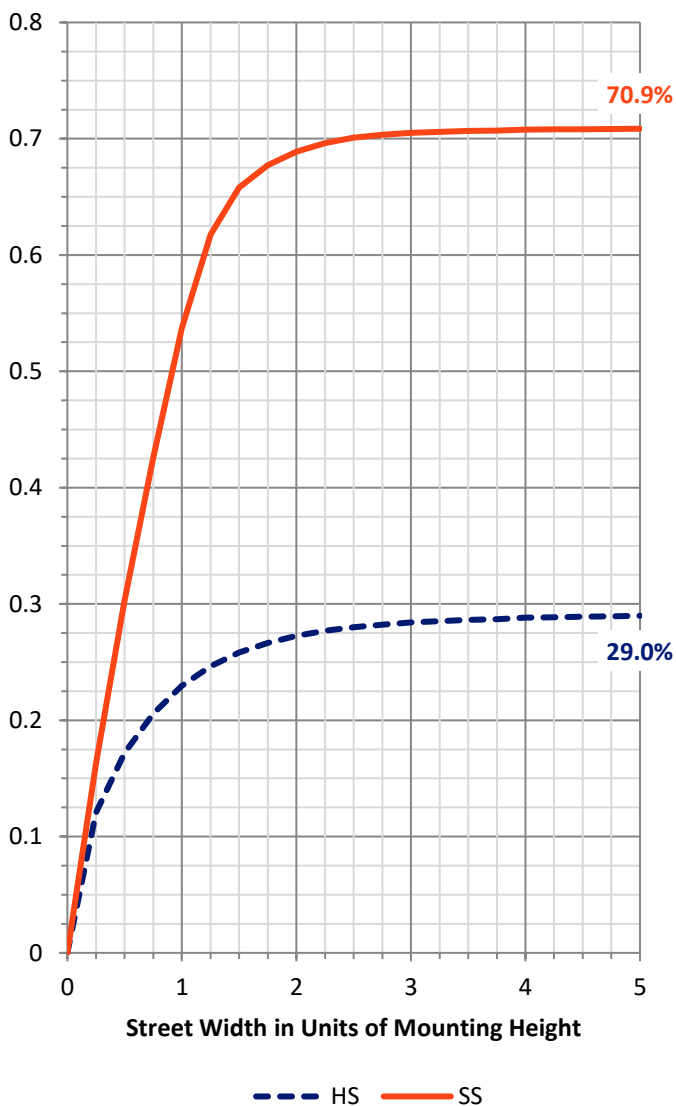
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10333.4	0.0	10333.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	25076.6	0.0	25076.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	35410.0	0.0	35410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.1	2.9
10°-20°	2590.3	7.3
20°-30°	3819.6	10.8
30°-40°	5457.4	15.4
40°-50°	7511.4	21.2
50°-60°	8876.5	25.1
60°-70°	4730.6	13.4
70°-80°	1200.1	3.4
80°-90°	187.1	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°	35410.0	100.0
0°-180°	35410.0	100.0

Coefficient of Utilization



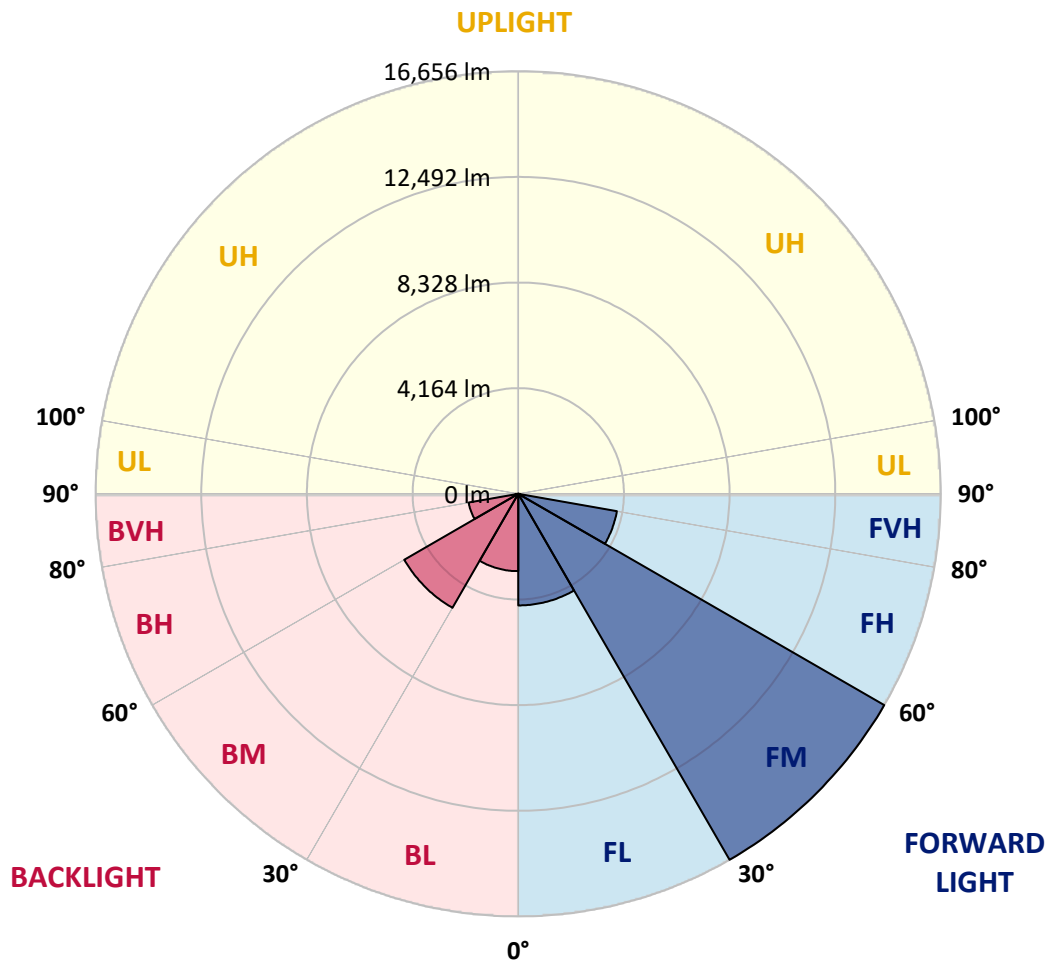
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4399.2	12.4			
FM (30°-60°)	16656.2	47.0			
FH (60°-80°)	3946.0	11.1			G2/5000
FVH (80°-90°)	75.2	0.2			G1/100
BL (0°-30°)	3047.7	8.6	B4/5000		
BM (30°-60°)	5189.1	14.7	B4/8500		
BH (60°-80°)	1984.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	111.9	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°	53°	55°	65°	75°	85°
0°	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0
2.5°	11569.7	11469.7	11528.8	11506.1	11692.3	11746.8	11719.6	11742.3	11846.8	11796.8	11692.3
5°	10811.1	10951.9	10979.1	11047.3	11156.3	11369.8	11537.9	11583.3	11633.3	11864.9	11842.2
7.5°	10120.6	10216.0	10166.0	10365.9	10602.1	10947.3	11151.8	11188.1	11646.9	11774.1	11869.5
10°	9684.5	9589.1	9816.3	9870.8	10138.8	10534.0	10779.3	10929.2	11347.1	11851.3	11910.3
12.5°	9280.3	9248.5	9384.7	9539.2	9839.0	10247.8	10497.6	10556.7	11201.7	11733.2	12010.3
15°	8980.5	8944.1	9080.4	9194.0	9543.7	9907.1	10225.1	10393.2	11042.7	11665.1	11924.0
17.5°	8744.2	8739.7	8816.9	9021.3	9380.2	9684.5	10197.8	10206.9	10961.0	11769.5	11996.7
20°	8730.6	8726.1	8739.7	8966.8	9293.9	9666.4	10111.5	10193.3	10961.0	11696.9	12001.2
22.5°	8844.2	8771.5	8853.3	8998.6	9234.8	9698.2	10143.3	10325.0	11224.4	12055.7	12205.6
25°	9025.9	9044.1	9089.5	9139.4	9275.7	9770.8	10425.0	10574.9	11533.3	12364.6	12487.2
27.5°	9357.5	9348.4	9366.6	9393.8	9511.9	9839.0	10538.5	10924.6	12178.4	12914.2	12791.6
30°	9843.5	9811.7	9884.4	9979.8	9870.8	10057.0	10915.5	11206.3	12778.0	13468.4	13132.3
32.5°	10284.1	10402.3	10538.5	10579.4	10447.7	10484.0	11415.2	11710.5	13277.6	14149.8	13550.2
35°	10833.8	10929.2	11110.9	11238.1	11215.4	11106.3	12096.6	12487.2	13999.9	14649.5	13990.8
37.5°	11369.8	11483.4	11783.2	12160.2	11951.2	11901.3	12823.4	13145.9	14222.5	14917.5	14313.3
40°	12232.9	12228.3	12746.2	12941.5	13127.7	13041.4	13577.4	13686.5	14340.6	14858.4	14322.4
42.5°	13245.8	13182.2	13709.2	14013.5	14254.3	14263.3	14363.3	14326.9	14395.1	14558.6	14227.0
45°	14208.8	14345.1	14876.6	15421.7	15662.4	15689.7	15026.5	14958.3	14490.5	14472.3	14045.3
47.5°	15385.3	15417.1	15853.2	16570.9	17129.6	16938.9	15885.0	15735.1	14908.4	15049.2	14349.7
50°	15453.5	15689.7	16080.3	16925.2	18642.3	18592.3	16997.9	16716.3	15580.7	15866.8	15199.1
52.5°	14027.1	13972.6	14436.0	15816.9	18528.7	20236.7	18842.2	18169.9	17025.2	16807.1	16575.5
55°	10688.4	10815.6	11224.4	12619.0	16089.4	20259.4	21354.1	20804.5	18569.6	18197.1	17929.1
56°	9375.7	9393.8	9779.9	11051.8	14681.3	19537.2	21831.1	21385.9	19337.3	18769.5	18360.7
57.5°	7772.2	7667.7	7867.6	8562.6	12391.9	18010.9	21308.7	21744.8	20236.7	19387.3	18819.4
60°	6118.7	6096.0	6014.2	6141.4	7831.2	13568.4	17738.3	18719.5	20145.8	18805.8	18024.5
62.5°	4996.7	4883.2	5046.7	5228.4	5441.9	8417.2	12464.5	13041.4	15994.0	15012.9	13541.1
65°	3874.7	3820.2	4024.6	4615.1	4742.3	5346.5	7099.9	7545.0	9443.8	9275.7	8167.4
67.5°	2666.4	2675.5	2852.7	3752.1	4397.1	4342.6	4347.1	4578.8	4928.6	3661.2	3188.8
70°	1689.8	1685.3	1780.6	2416.6	3538.6	3574.9	3393.2	3325.1	3152.5	1907.8	2021.4
72.5°	1085.6	1053.9	1103.8	1335.5	1830.6	2116.8	2180.4	2221.3	1826.1	1499.0	1626.2
75°	613.2	581.4	563.3	622.3	722.3	835.8	917.6	944.8	1058.4	1135.6	1203.8
77.5°	186.2	168.1	204.4	272.5	358.9	481.5	586.0	604.1	713.2	804.0	872.2
80°	81.8	90.8	127.2	181.7	254.4	340.7	413.4	440.6	513.3	581.4	599.6
82.5°	50.0	54.5	86.3	122.6	177.2	240.8	295.3	304.3	377.0	431.5	445.2
85°	18.2	22.7	45.4	72.7	113.6	154.4	154.4	168.1	154.4	154.4	168.1
87.5°	0.0	0.0	4.5	9.1	9.1	13.6	18.2	18.2	22.7	27.3	31.8
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°	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0	11715.0
2.5°	11746.8	11724.1	11687.8	11556.0	11542.4	11501.5	11274.4	11238.1	11274.4	11165.4	11174.5
5°	11724.1	11792.2	11519.7	11388.0	11142.7	10965.5	10761.1	10656.6	10470.4	10352.3	10484.0
7.5°	11824.0	11796.8	11456.1	11169.9	10802.0	10352.3	9993.4	9789.0	9462.0	9371.1	9439.2
10°	11787.7	11642.3	11242.6	10865.6	10170.6	9775.4	9194.0	8630.7	8321.8	8162.8	8140.1
12.5°	11737.7	11696.9	11029.1	10379.5	9648.2	8816.9	7999.3	7467.8	6963.6	6745.6	6777.4
15°	11796.8	11451.6	10629.4	9807.2	8835.1	7744.9	6863.7	6177.8	5828.0	5687.2	5687.2
17.5°	11769.5	11333.5	10438.6	9166.7	7935.7	6645.6	5678.1	5264.7	5119.4	5119.4	5160.2
20°	11783.2	11410.7	10052.5	8526.2	6872.8	5596.3	4892.2	4742.3	4805.9	4828.6	4851.4
22.5°	11860.4	11156.3	9675.5	7822.1	5887.0	4787.8	4442.5	4447.1	4560.6	4683.3	4660.6
25°	11955.8	11056.4	9216.7	7122.6	5133.0	4392.6	4283.5	4269.9	4356.2	4419.8	4428.9
27.5°	11874.0	10883.8	8748.8	6250.4	4515.2	4129.1	4106.4	4115.5	4142.7	4269.9	4229.0
30°	12142.0	10933.7	8162.8	5519.1	4174.5	4042.8	4015.5	4001.9	4042.8	4079.1	4047.3
32.5°	12473.6	10756.6	7726.7	4815.0	4006.5	3979.2	3924.7	3906.5	3929.2	3892.9	3911.1
35°	12619.0	10724.8	7158.9	4310.8	3874.7	3852.0	3820.2	3815.7	3820.2	3788.4	3761.2
37.5°	12700.7	10874.7	6509.4	4079.1	3793.0	3815.7	3743.0	3733.9	3652.1	3670.3	3683.9
40°	12841.6	10643.0	5982.4	3856.6	3743.0	3697.6	3634.0	3620.3	3565.8	3534.0	3565.8
42.5°	12637.1	10574.9	5464.6	3761.2	3670.3	3620.3	3574.9	3497.7	3479.5	3452.3	3434.1
45°	12473.6	10184.2	5001.3	3643.1	3584.0	3556.8	3470.4	3388.7	3320.5	3347.8	3306.9
47.5°	12596.3	10047.9	4542.5	3543.1	3465.9	3434.1	3347.8	3284.2	3216.1	3184.3	3175.2
50°	13086.8	10302.3	4156.4	3470.4	3366.0	3347.8	3234.2	3161.6	3098.0	3075.3	3084.3
52.5°	14258.8	10997.3	3892.9	3320.5	3270.6	3188.8	3125.2	3034.4	2993.5	2920.8	2966.2
55°	15744.2	12128.4	3824.8	3179.7	3152.5	3079.8	2993.5	2925.3	2848.1	2789.1	2775.4
56°	16221.2	12668.9	3770.2	3125.2	3079.8	3038.9	2925.3	2884.5	2761.8	2748.2	2739.1
57.5°	16607.3	13145.9	3779.3	3020.7	2975.3	2939.0	2870.8	2770.9	2689.1	2639.2	2661.9
60°	15735.1	12305.5	3606.7	2861.8	2852.7	2784.5	2689.1	2643.7	2543.8	2484.7	2471.1
62.5°	11696.9	8353.6	2925.3	2657.3	2652.8	2580.1	2471.1	2421.1	2403.0	2321.2	2321.2
65°	6736.5	5237.5	2530.2	2489.3	2452.9	2380.3	2271.2	2230.4	2184.9	2157.7	2135.0
67.5°	2875.4	2716.4	2298.5	2293.9	2253.1	2162.2	2053.2	1989.6	1930.5	1876.0	1903.3
70°	2085.0	2116.8	2075.9	2053.2	2003.2	1889.7	1794.3	1717.1	1626.2	1589.9	1617.1
72.5°	1653.5	1721.6	1780.6	1785.2	1726.1	1594.4	1489.9	1385.5	1285.5	1235.6	1258.3
75°	1253.7	1299.1	1358.2	1371.8	1285.5	1194.7	1094.7	985.7	908.5	849.4	858.5
77.5°	904.0	894.9	949.4	940.3	899.4	835.8	745.0	645.0	558.7	504.2	508.8
80°	617.8	631.4	663.2	658.7	608.7	567.8	499.7	417.9	354.3	308.9	299.8
82.5°	431.5	454.2	481.5	458.8	417.9	377.0	327.1	268.0	218.0	181.7	172.6
85°	154.4	177.2	204.4	218.0	231.7	222.6	186.2	149.9	109.0	90.8	86.3
87.5°	31.8	36.3	40.9	40.9	40.9	36.3	31.8	31.8	27.3	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)