

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: P531207

Luminaire Tested: **GALN-SA6C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531207
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-SA6C-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 20821 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

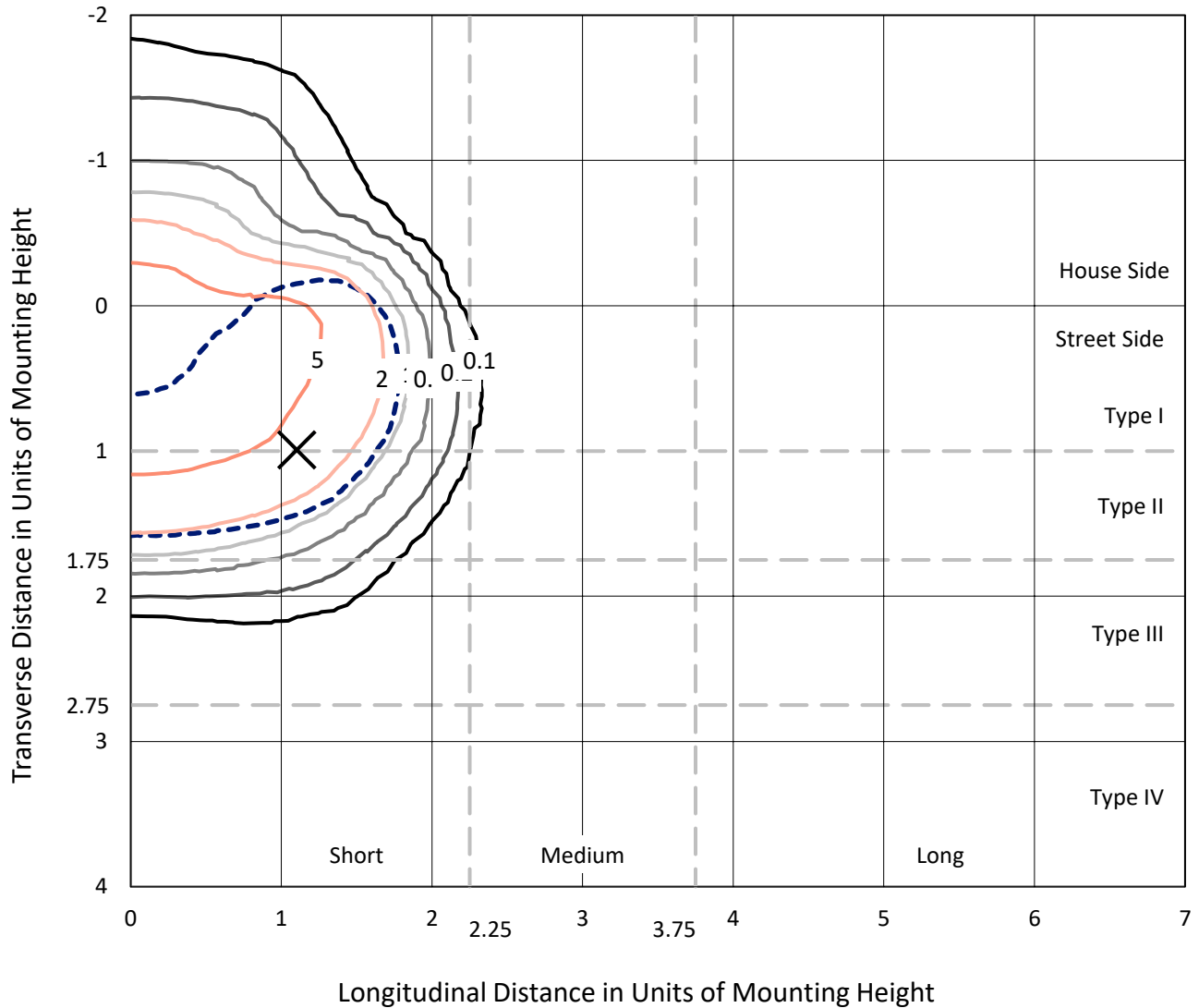
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

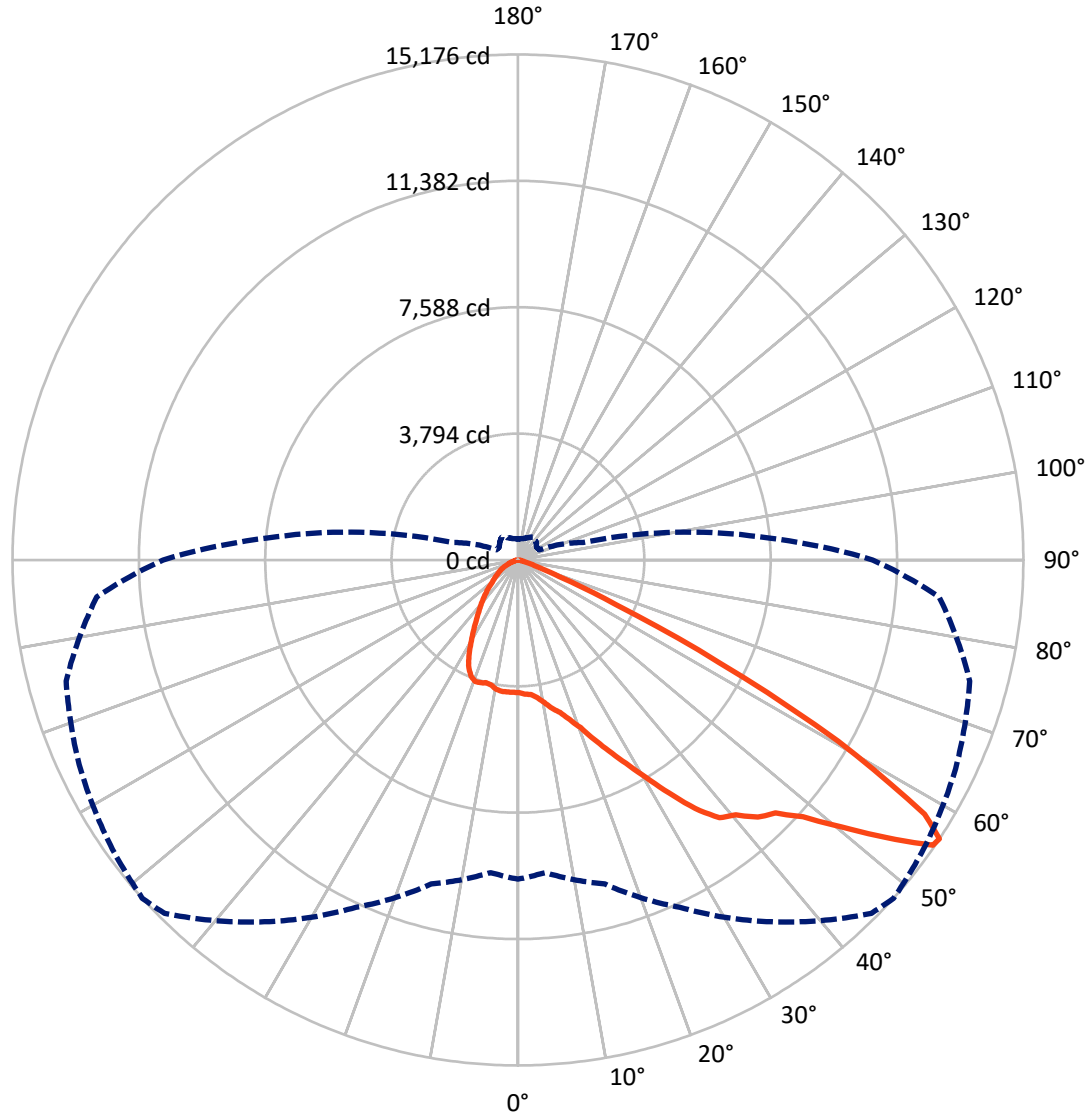
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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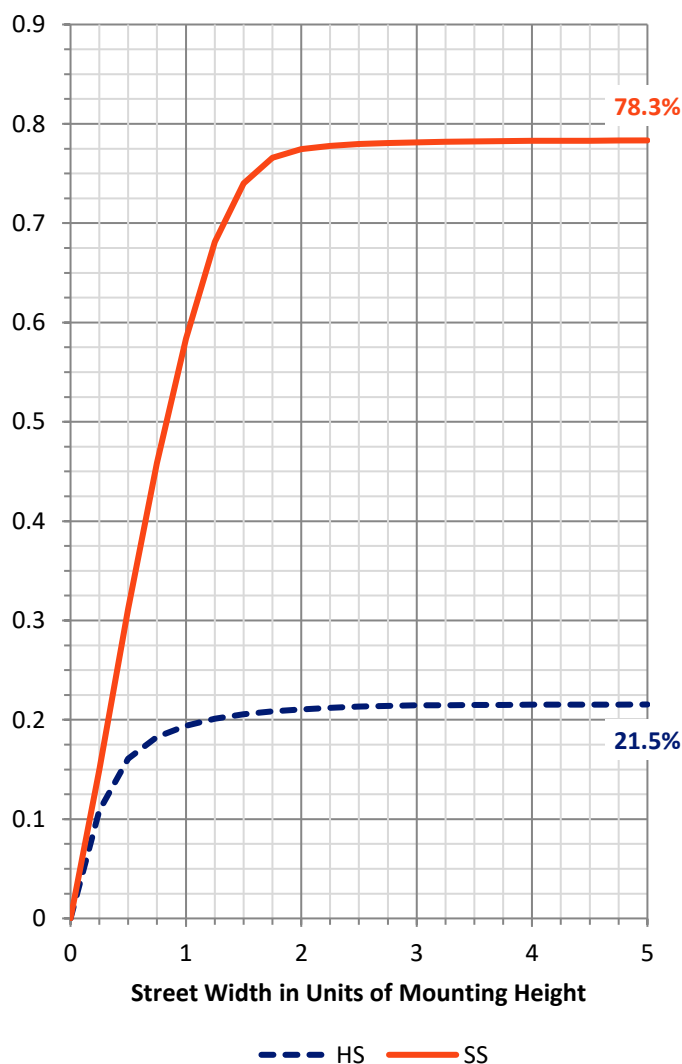
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4528.2	0.0	4528.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	16292.8	0.0	16292.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	20821.0	0.0	20821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	1.9
10°-20°	1238.0	5.9
20°-30°	2245.5	10.8
30°-40°	3527.3	16.9
40°-50°	5145.6	24.7
50°-60°	6199.5	29.8
60°-70°	1815.1	8.7
70°-80°	230.3	1.1
80°-90°	32.3	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°	20821.0	100.0
0°-180°	20821.0	100.0

Coefficient of Utilization

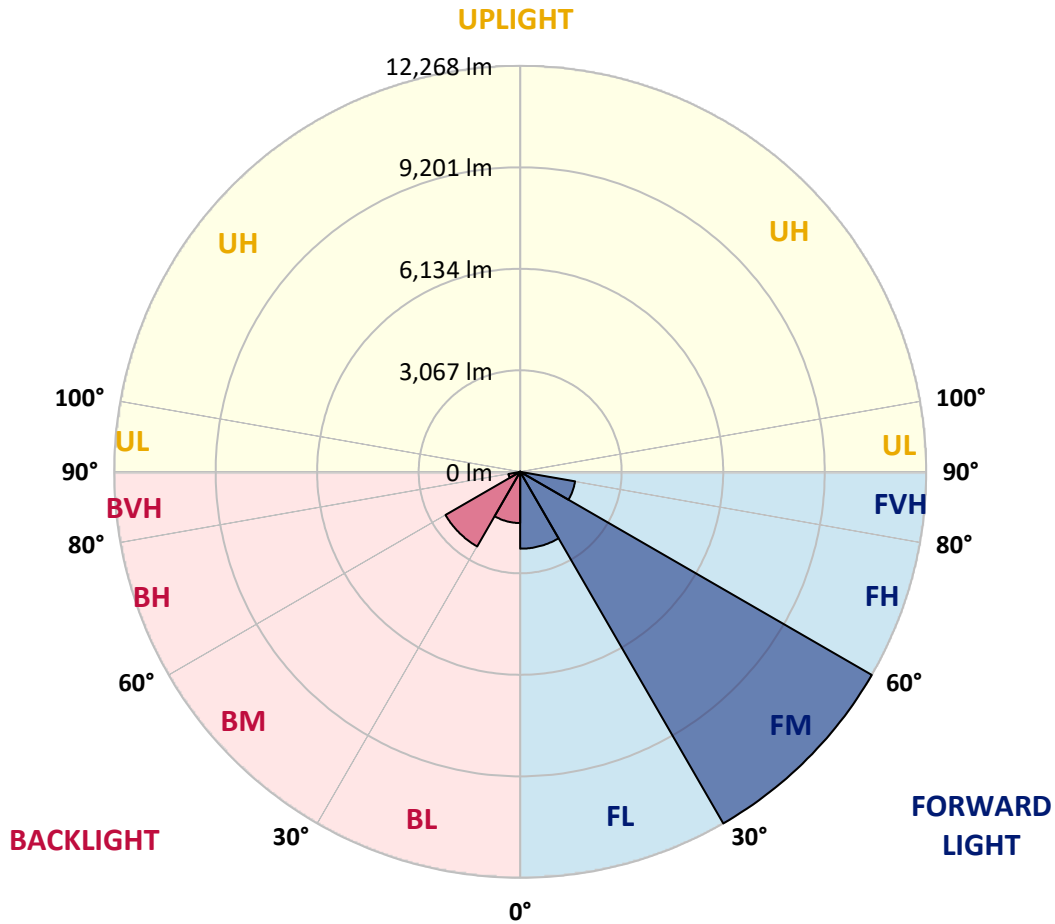


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.2	11.2			
FM (30°-60°)	12267.8	58.9			
FH (60°-80°)	1685.6	8.1			G1/1800
FVH (80°-90°)	16.2	0.1			G1/100
BL (0°-30°)	1547.7	7.4	B3/2500		
BM (30°-60°)	2604.6	12.5	B3/5000		
BH (60°-80°)	359.8	1.7	B1/500		G1/500
BVH (80°-90°)	16.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8
2.5°	4048.9	4029.9	4029.9	3999.6	4033.7	4018.5	4029.9	3992.0	4029.9	3973.0	4018.5
5°	4067.8	4071.6	4056.4	4075.4	4075.4	4098.1	4060.2	4094.3	4113.3	4071.6	4052.6
7.5°	4166.4	4174.0	4170.2	4155.0	4185.3	4181.5	4177.7	4151.2	4158.8	4143.6	4120.9
10°	4359.7	4355.9	4374.9	4337.0	4314.2	4340.8	4348.3	4306.6	4276.3	4264.9	4192.9
12.5°	4640.3	4594.8	4568.2	4530.3	4541.7	4503.8	4572.0	4500.0	4484.8	4416.6	4344.6
15°	4867.7	4860.1	4863.9	4803.3	4735.0	4750.2	4750.2	4712.3	4689.5	4606.1	4503.8
17.5°	5334.0	5174.8	5208.9	5133.1	5076.2	5072.4	5038.3	5045.9	4985.2	4810.9	4655.4
20°	5698.0	5629.7	5576.6	5447.8	5360.6	5387.1	5371.9	5334.0	5315.1	5087.6	4867.7
22.5°	6024.0	6046.7	5959.5	5925.4	5804.1	5815.5	5845.8	5811.7	5667.6	5432.6	5106.6
25°	6482.7	6456.2	6338.6	6296.9	6183.2	6224.9	6342.4	6315.9	6224.9	5800.3	5292.3
27.5°	7024.8	6933.8	6956.6	6767.0	6657.1	6774.6	6914.9	7047.6	6789.8	6232.5	5512.2
30°	7407.7	7313.0	7305.4	7297.8	7271.2	7407.7	7570.7	7692.1	7483.5	6664.7	5876.1
32.5°	7597.3	7620.0	7684.5	7661.7	7893.0	8173.5	8344.1	8518.5	8256.9	7369.8	6357.6
35°	8101.5	7957.4	8101.5	8116.7	8355.5	8950.7	9166.8	9583.8	9519.3	8366.9	6945.2
37.5°	8397.2	8385.8	8404.8	8548.8	8780.1	9515.6	9822.6	10144.9	10023.6	8965.9	7676.9
40°	8886.2	8916.6	8912.8	9022.7	9276.7	9940.2	10065.3	10326.8	10338.2	9796.1	8753.6
42.5°	9671.0	9549.7	9470.1	9583.8	9940.2	10307.9	10558.1	10505.0	10880.3	10804.5	10137.3
45°	10376.1	10448.2	10330.6	10520.2	10649.1	10846.2	10838.6	10952.4	11430.0	11790.2	11179.8
47.5°	11035.8	11081.3	11138.1	11267.0	11547.6	11577.9	11513.4	11464.2	12123.8	12495.3	11987.3
50°	11430.0	11471.7	11737.1	11968.4	12491.5	12559.8	12597.7	12472.6	12919.9	12961.6	12749.3
52.5°	11323.9	11369.4	11740.9	12502.9	13336.9	13962.5	13848.7	13636.4	13609.9	13772.9	13454.5
55°	10383.7	10342.0	10853.8	12040.4	13602.3	15103.6	15118.7	14895.1	14466.7	14356.7	13348.3
56°	9583.8	9420.8	10072.8	11505.9	13261.1	15005.0	15175.6	14936.8	14534.9	14042.1	12692.5
57.5°	7851.3	8006.7	8655.0	9841.6	12082.1	14296.1	14394.6	14337.8	14034.5	13208.0	11168.5
60°	4329.4	4602.3	5174.8	6626.8	8601.9	10971.3	11050.9	11513.4	11570.3	10114.5	7684.5
62.5°	1838.7	1808.3	2403.5	3472.6	4898.0	6623.0	6770.8	7244.7	7331.9	5830.6	3855.5
65°	746.8	788.5	1088.0	1747.7	2589.3	3017.7	3226.2	3381.6	3669.7	2407.3	1421.6
67.5°	492.8	489.0	640.7	997.0	1395.1	1345.8	1345.8	1421.6	1315.5	981.9	614.2
70°	352.6	363.9	458.7	690.0	868.2	644.5	617.9	591.4	671.0	648.3	496.6
72.5°	231.3	246.4	307.1	413.2	451.1	352.6	352.6	424.6	553.5	523.2	405.6
75°	151.6	155.4	189.6	238.8	223.7	182.0	200.9	284.3	401.9	386.7	288.1
77.5°	102.4	106.1	128.9	155.4	125.1	102.4	109.9	144.1	197.1	197.1	151.6
80°	37.9	41.7	53.1	49.3	56.9	72.0	79.6	98.6	117.5	117.5	102.4
82.5°	0.0	3.8	11.4	26.5	41.7	56.9	64.4	75.8	87.2	98.6	94.8
85°	0.0	3.8	11.4	19.0	30.3	34.1	37.9	26.5	22.7	22.7	19.0
87.5°	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.8	7.6	3.8	3.8
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°	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8	3976.8
2.5°	3976.8	3973.0	3973.0	3961.7	3984.4	3973.0	3980.6	3976.8	3927.5	3965.4	3938.9
5°	4018.5	4045.1	4003.4	3995.8	3965.4	3976.8	3976.8	3938.9	3973.0	3969.2	3961.7
7.5°	4124.7	4079.2	4033.7	3988.2	3980.6	3969.2	3927.5	3912.4	3938.9	3908.6	3954.1
10°	4170.2	4177.7	4109.5	4048.9	3992.0	3912.4	3855.5	3821.4	3779.7	3825.2	3851.7
12.5°	4378.7	4302.9	4185.3	4090.6	3897.2	3817.6	3760.7	3745.6	3817.6	3832.8	3806.2
15°	4450.7	4439.3	4287.7	4075.4	3874.5	3779.7	3791.1	3760.7	3768.3	3730.4	3738.0
17.5°	4598.6	4469.7	4291.5	4026.1	3870.7	3847.9	3779.7	3658.4	3590.1	3559.8	3586.3
20°	4761.6	4636.5	4378.7	4045.1	3904.8	3844.1	3620.5	3472.6	3332.3	3256.5	3260.3
22.5°	4905.6	4750.2	4340.8	4052.6	3935.1	3684.9	3415.7	3123.8	2949.4	2831.9	2835.7
25°	5080.0	4860.1	4355.9	4067.8	3855.5	3430.9	3044.2	2759.9	2551.4	2471.8	2498.3
27.5°	5178.6	4928.4	4439.3	4101.9	3647.0	3070.8	2653.7	2388.4	2267.1	2229.1	2225.4
30°	5474.3	5080.0	4541.7	4033.7	3298.2	2684.1	2297.4	2134.4	2016.8	1982.7	1990.3
32.5°	5914.1	5356.8	4674.4	3855.5	2941.9	2339.1	2066.1	1944.8	1834.9	1770.4	1762.8
35°	6281.8	5830.6	4814.6	3578.8	2528.6	2073.7	1903.1	1751.5	1584.7	1512.6	1493.7
37.5°	6983.1	6365.2	4784.3	3161.7	2134.4	1876.6	1728.7	1543.0	1398.9	1300.3	1289.0
40°	7915.7	6990.7	4636.5	2653.7	1842.5	1702.2	1543.0	1364.8	1186.6	1103.2	1095.6
42.5°	9049.3	7756.5	4367.3	2138.2	1550.5	1527.8	1383.7	1179.0	1019.8	959.1	962.9
45°	9970.5	8412.4	4094.3	1717.3	1334.5	1357.2	1232.1	1038.7	928.8	879.5	879.5
47.5°	10789.4	8855.9	3798.6	1417.9	1133.5	1186.6	1076.7	962.9	868.2	830.2	822.7
50°	11577.9	9307.0	3502.9	1148.7	966.7	1019.8	1008.4	917.4	841.6	796.1	799.9
52.5°	12070.7	9379.1	3127.6	940.2	845.4	906.1	944.0	860.6	777.2	750.6	743.0
55°	11468.0	8450.3	2426.3	773.4	716.5	796.1	868.2	773.4	708.9	663.4	659.6
56°	10656.7	7555.6	2028.2	712.7	678.6	765.8	841.6	739.3	667.2	640.7	621.7
57.5°	9022.7	6183.2	1497.5	633.1	629.3	712.7	799.9	705.1	621.7	599.0	599.0
60°	5625.9	3480.2	906.1	530.7	545.9	633.1	720.3	629.3	553.5	553.5	564.9
62.5°	2562.8	1448.2	549.7	451.1	470.1	545.9	640.7	568.7	527.0	568.7	576.2
65°	871.9	625.5	398.1	360.2	371.5	451.1	549.7	576.2	572.4	599.0	614.2
67.5°	489.0	401.9	333.6	299.5	291.9	333.6	451.1	576.2	553.5	542.1	549.7
70°	413.2	341.2	295.7	265.4	254.0	269.2	348.8	436.0	390.5	379.1	371.5
72.5°	333.6	284.3	257.8	238.8	204.7	174.4	159.2	166.8	185.8	197.1	216.1
75°	235.0	216.1	216.1	193.3	147.9	109.9	87.2	72.0	49.3	34.1	37.9
77.5°	132.7	132.7	136.5	117.5	94.8	72.0	53.1	37.9	19.0	7.6	3.8
80°	91.0	98.6	106.1	94.8	79.6	64.4	45.5	26.5	11.4	0.0	0.0
82.5°	91.0	102.4	109.9	94.8	79.6	60.7	45.5	26.5	11.4	3.8	0.0
85°	19.0	22.7	26.5	30.3	45.5	45.5	34.1	22.7	11.4	3.8	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	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)