

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: P532221

Luminaire Tested: **GALN-SA7C-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532221
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-SA7C-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 29242 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

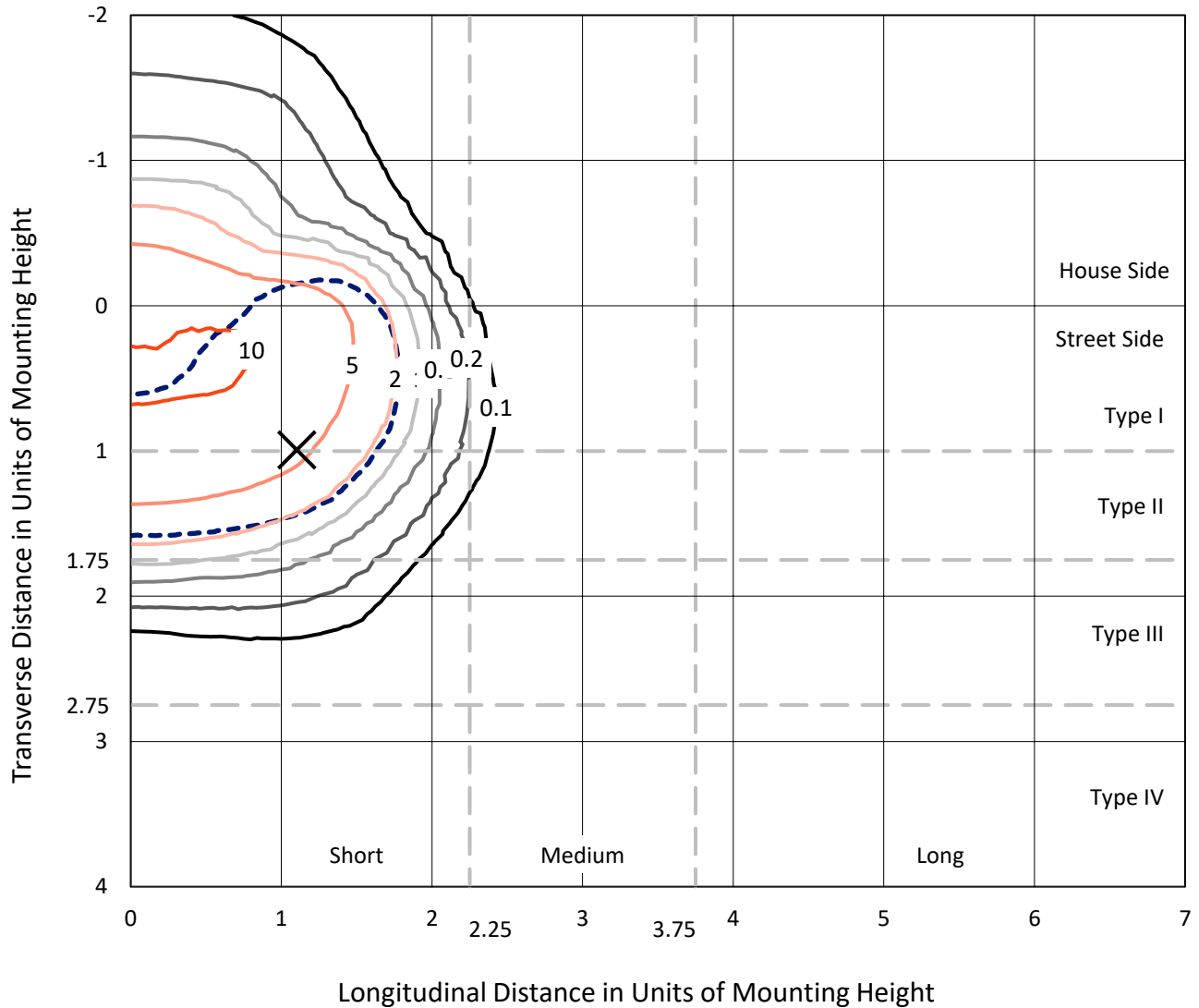
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

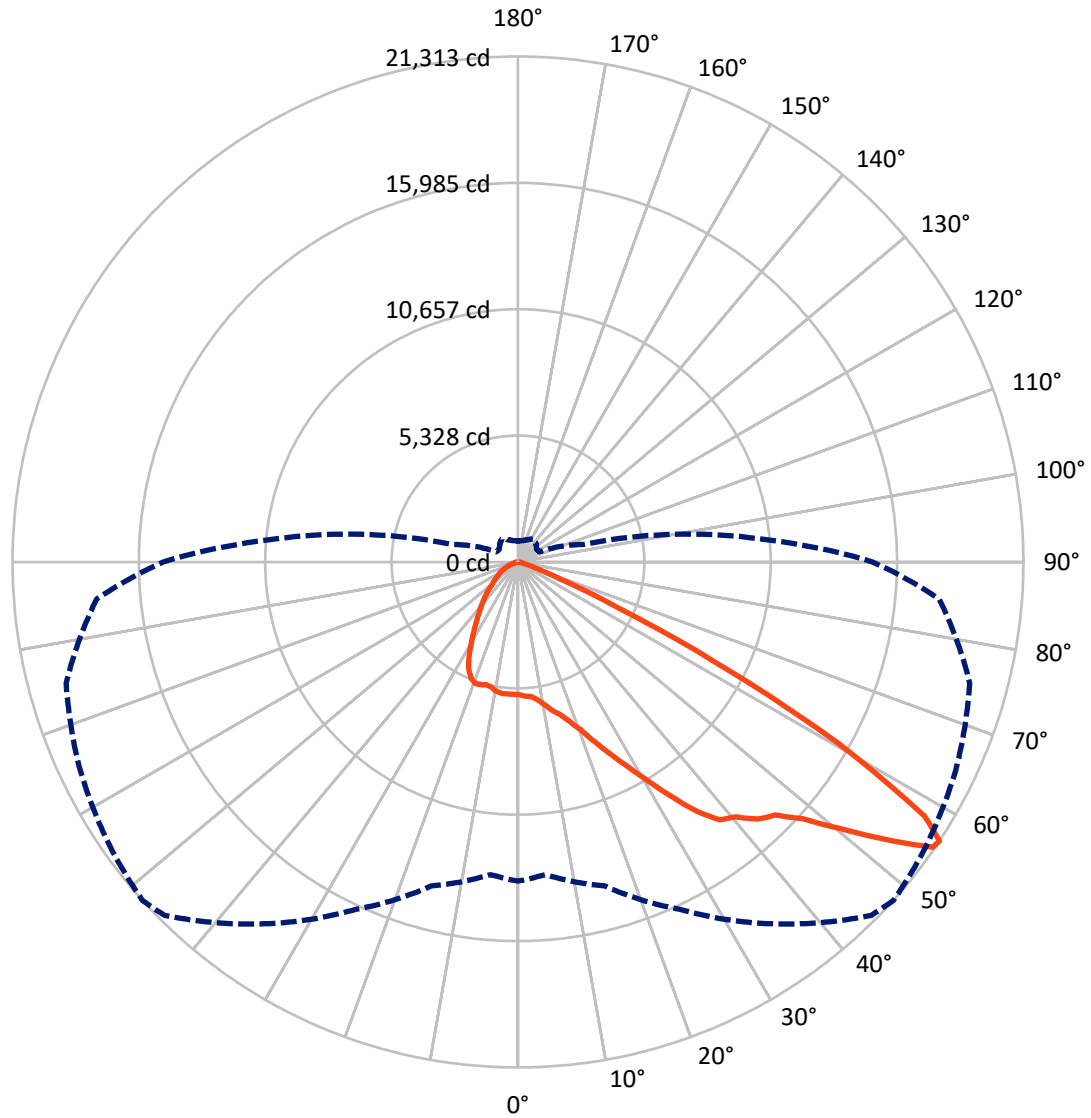
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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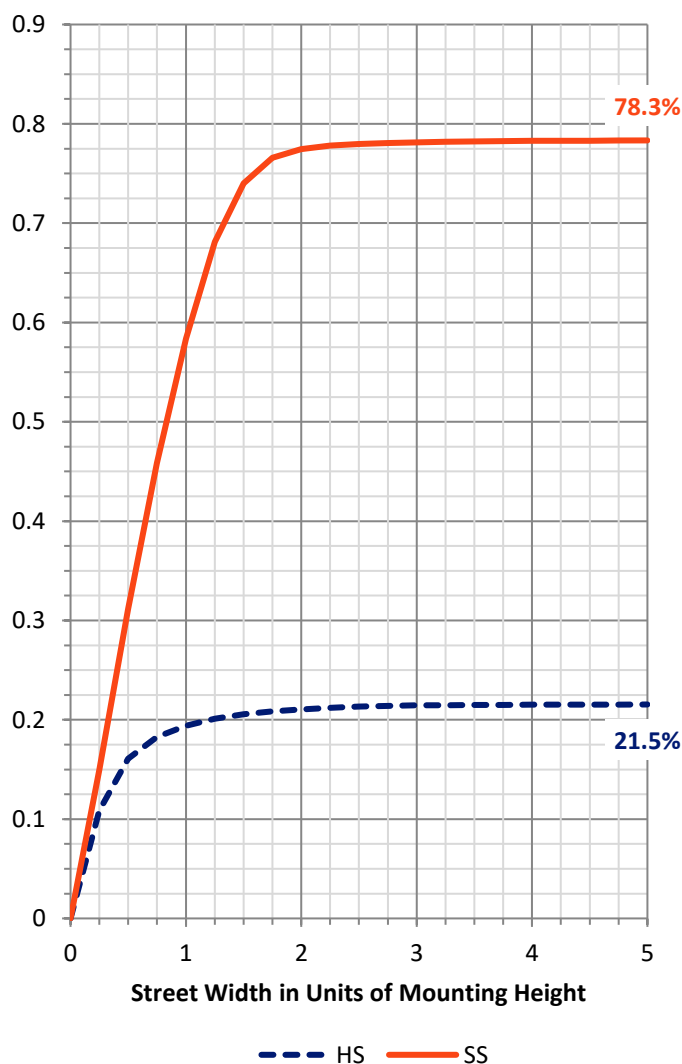
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6359.6	0.0	6359.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	22882.4	0.0	22882.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	29242.0	0.0	29242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.1	1.9
10°-20°	1738.7	5.9
20°-30°	3153.7	10.8
30°-40°	4953.8	16.9
40°-50°	7226.8	24.7
50°-60°	8706.9	29.8
60°-70°	2549.3	8.7
70°-80°	323.4	1.1
80°-90°	45.3	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°	29242.0	100.0
0°-180°	29242.0	100.0

Coefficient of Utilization

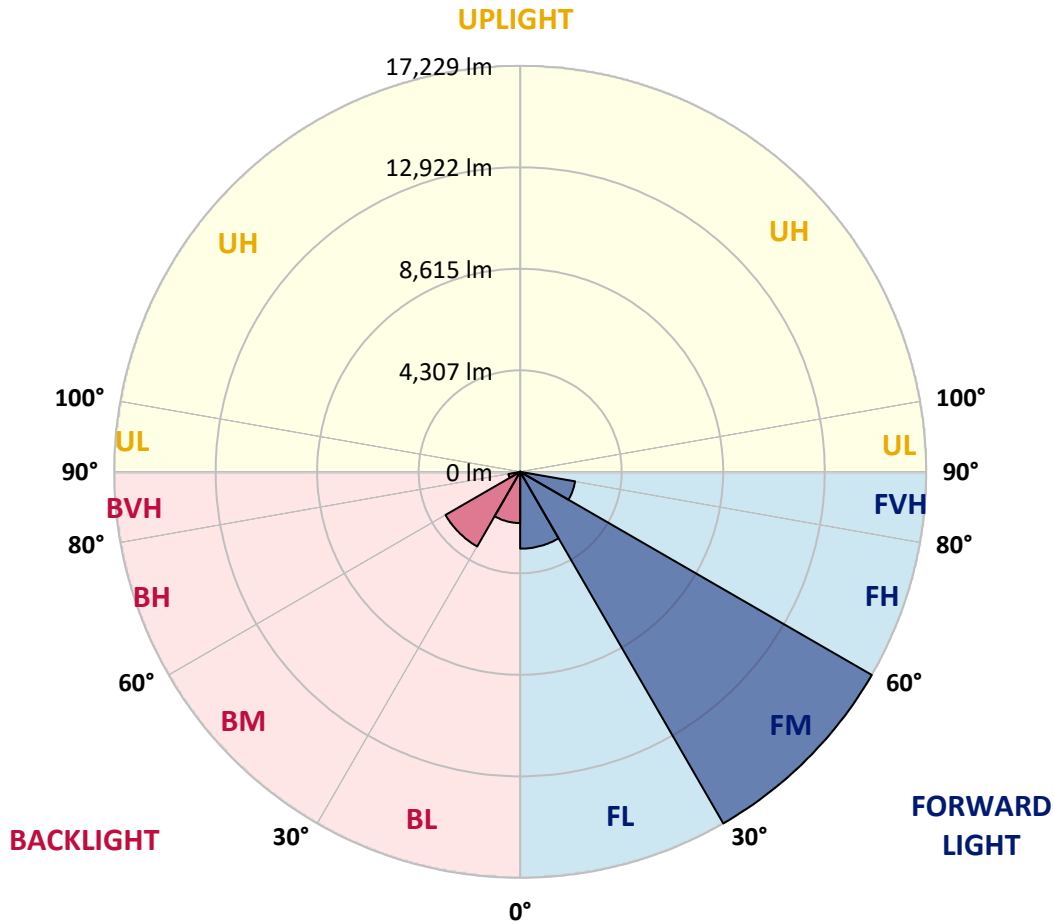


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3262.8	11.2			
FM (30°-60°)	17229.5	58.9			
FH (60°-80°)	2367.4	8.1			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	2173.7	7.4	B3/2500		
BM (30°-60°)	3658.0	12.5	B3/5000		
BH (60°-80°)	505.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	22.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2
2.5°	5686.4	5659.8	5659.8	5617.2	5665.1	5643.8	5659.8	5606.5	5659.8	5579.9	5643.8
5°	5713.0	5718.3	5697.0	5723.7	5723.7	5755.6	5702.4	5750.3	5776.9	5718.3	5691.7
7.5°	5851.5	5862.1	5856.8	5835.5	5878.1	5872.7	5867.4	5830.2	5840.8	5819.5	5787.6
10°	6123.0	6117.7	6144.3	6091.0	6059.1	6096.4	6107.0	6048.5	6005.9	5989.9	5888.7
12.5°	6517.0	6453.1	6415.8	6362.6	6378.6	6325.3	6421.2	6320.0	6298.7	6202.9	6101.7
15°	6836.5	6825.8	6831.1	6745.9	6650.1	6671.4	6671.4	6618.2	6586.2	6469.1	6325.3
17.5°	7491.3	7267.7	7315.6	7209.2	7129.3	7124.0	7076.1	7086.7	7001.5	6756.6	6538.3
20°	8002.5	7906.6	7832.1	7651.1	7528.6	7565.9	7544.6	7491.3	7464.7	7145.3	6836.5
22.5°	8460.4	8492.3	8369.9	8321.9	8151.6	8167.5	8210.1	8162.2	7959.9	7629.8	7171.9
25°	9104.6	9067.4	8902.3	8843.7	8684.0	8742.6	8907.6	8870.4	8742.6	8146.2	7432.8
27.5°	9866.0	9738.2	9770.2	9504.0	9349.5	9514.6	9711.6	9898.0	9535.9	8753.2	7741.6
30°	10403.8	10270.7	10260.0	10249.4	10212.1	10403.8	10632.7	10803.1	10510.3	9360.2	8252.7
32.5°	10670.0	10701.9	10792.4	10760.5	11085.3	11479.3	11718.9	11963.8	11596.4	10350.5	8928.9
35°	11378.1	11175.8	11378.1	11399.4	11734.8	12570.8	12874.3	13459.9	13369.4	11750.8	9754.2
37.5°	11793.4	11777.4	11804.1	12006.4	12331.2	13364.1	13795.4	14247.9	14077.6	12592.1	10781.8
40°	12480.3	12522.9	12517.5	12671.9	13028.7	13960.4	14136.1	14503.5	14519.5	13758.1	12293.9
42.5°	13582.4	13412.0	13300.2	13459.9	13960.4	14476.9	14828.3	14753.8	15280.9	15174.4	14237.3
45°	14572.7	14673.9	14508.8	14775.0	14956.1	15232.9	15222.3	15382.0	16052.9	16558.7	15701.5
47.5°	15499.2	15563.1	15642.9	15823.9	16217.9	16260.5	16170.0	16100.8	17027.2	17549.0	16835.6
50°	16052.9	16111.5	16484.2	16808.9	17543.7	17639.5	17692.8	17517.1	18145.4	18203.9	17905.8
52.5°	15903.8	15967.7	16489.5	17559.7	18731.0	19609.6	19449.8	19151.7	19114.4	19343.3	18896.1
55°	14583.4	14524.8	15243.6	16910.1	19103.7	21212.2	21233.5	20919.3	20317.7	20163.3	18747.0
56°	13459.9	13231.0	14146.8	16159.4	18624.5	21073.7	21313.3	20977.9	20413.5	19721.4	17825.9
57.5°	11026.7	11245.0	12155.5	13822.0	16968.7	20078.1	20216.5	20136.7	19710.7	18550.0	15685.5
60°	6080.4	6463.8	7267.7	9306.9	12080.9	15408.6	15520.5	16170.0	16249.9	14205.3	10792.4
62.5°	2582.3	2539.7	3375.6	4877.1	6879.0	9301.6	9509.3	10174.8	10297.3	8188.8	5414.9
65°	1048.9	1107.5	1528.1	2454.5	3636.5	4238.2	4531.0	4749.3	5154.0	3381.0	1996.6
67.5°	692.2	686.8	899.8	1400.3	1959.4	1890.1	1890.1	1996.6	1847.5	1379.0	862.5
70°	495.2	511.1	644.2	969.0	1219.3	905.1	867.9	830.6	942.4	910.5	697.5
72.5°	324.8	346.1	431.3	580.4	633.6	495.2	495.2	596.3	777.4	734.8	569.7
75°	213.0	218.3	266.2	335.4	314.1	255.6	282.2	399.3	564.4	543.1	404.6
77.5°	143.8	149.1	181.0	218.3	175.7	143.8	154.4	202.3	276.9	276.9	213.0
80°	53.2	58.6	74.5	69.2	79.9	101.2	111.8	138.4	165.1	165.1	143.8
82.5°	0.0	5.3	16.0	37.3	58.6	79.9	90.5	106.5	122.5	138.4	133.1
85°	0.0	5.3	16.0	26.6	42.6	47.9	53.2	37.3	31.9	31.9	26.6
87.5°	0.0	0.0	5.3	5.3	5.3	5.3	5.3	5.3	10.6	5.3	5.3
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°	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2	5585.2
2.5°	5585.2	5579.9	5579.9	5563.9	5595.9	5579.9	5590.6	5585.2	5516.0	5569.3	5532.0
5°	5643.8	5681.1	5622.5	5611.9	5569.3	5585.2	5585.2	5532.0	5579.9	5574.6	5563.9
7.5°	5792.9	5729.0	5665.1	5601.2	5590.6	5574.6	5516.0	5494.7	5532.0	5489.4	5553.3
10°	5856.8	5867.4	5771.6	5686.4	5606.5	5494.7	5414.9	5366.9	5308.4	5372.3	5409.5
12.5°	6149.6	6043.1	5878.1	5745.0	5473.4	5361.6	5281.7	5260.4	5361.6	5382.9	5345.6
15°	6250.8	6234.8	6021.8	5723.7	5441.5	5308.4	5324.3	5281.7	5292.4	5239.2	5249.8
17.5°	6458.4	6277.4	6027.2	5654.5	5436.2	5404.2	5308.4	5138.0	5042.2	4999.6	5036.8
20°	6687.4	6511.7	6149.6	5681.1	5484.1	5398.9	5084.7	4877.1	4680.1	4573.6	4578.9
22.5°	6889.7	6671.4	6096.4	5691.7	5526.7	5175.3	4797.2	4387.3	4142.3	3977.3	3982.6
25°	7134.6	6825.8	6117.7	5713.0	5414.9	4818.5	4275.4	3876.1	3583.3	3471.5	3508.7
27.5°	7273.1	6921.6	6234.8	5760.9	5122.0	4312.7	3727.0	3354.3	3184.0	3130.7	3125.4
30°	7688.3	7134.6	6378.6	5665.1	4632.2	3769.6	3226.6	2997.6	2832.5	2784.6	2795.3
32.5°	8306.0	7523.3	6564.9	5414.9	4131.7	3285.1	2901.8	2731.4	2577.0	2486.5	2475.8
35°	8822.4	8188.8	6761.9	5026.2	3551.3	2912.4	2672.8	2459.8	2225.6	2124.4	2097.8
37.5°	9807.4	8939.6	6719.3	4440.5	2997.6	2635.5	2427.9	2167.0	1964.7	1826.2	1810.3
40°	11117.2	9818.1	6511.7	3727.0	2587.6	2390.6	2167.0	1916.8	1666.5	1549.4	1538.7
42.5°	12709.2	10893.6	6133.6	3002.9	2177.7	2145.7	1943.4	1655.9	1432.2	1347.1	1352.4
45°	14003.0	11814.7	5750.3	2411.9	1874.2	1906.1	1730.4	1458.9	1304.5	1235.2	1235.2
47.5°	15153.1	12437.7	5335.0	1991.3	1592.0	1666.5	1512.1	1352.4	1219.3	1166.0	1155.4
50°	16260.5	13071.3	4919.7	1613.3	1357.7	1432.2	1416.3	1288.5	1182.0	1118.1	1123.4
52.5°	16952.7	13172.4	4392.6	1320.4	1187.3	1272.5	1325.8	1208.6	1091.5	1054.2	1043.6
55°	16106.1	11868.0	3407.6	1086.2	1006.3	1118.1	1219.3	1086.2	995.7	931.8	926.4
56°	14966.7	10611.4	2848.5	1001.0	953.1	1075.5	1182.0	1038.2	937.1	899.8	873.2
57.5°	12671.9	8684.0	2103.1	889.2	883.8	1001.0	1123.4	990.3	873.2	841.2	841.2
60°	7901.3	4887.7	1272.5	745.4	766.7	889.2	1011.6	883.8	777.4	777.4	793.3
62.5°	3599.3	2033.9	772.0	633.6	660.2	766.7	899.8	798.7	740.1	798.7	809.3
65°	1224.6	878.5	559.1	505.8	521.8	633.6	772.0	809.3	804.0	841.2	862.5
67.5°	686.8	564.4	468.5	420.6	410.0	468.5	633.6	809.3	777.4	761.4	772.0
70°	580.4	479.2	415.3	372.7	356.7	378.0	489.8	612.3	548.4	532.4	521.8
72.5°	468.5	399.3	362.1	335.4	287.5	244.9	223.6	234.3	260.9	276.9	303.5
75°	330.1	303.5	303.5	271.5	207.6	154.4	122.5	101.2	69.2	47.9	53.2
77.5°	186.4	186.4	191.7	165.1	133.1	101.2	74.5	53.2	26.6	10.6	5.3
80°	127.8	138.4	149.1	133.1	111.8	90.5	63.9	37.3	16.0	0.0	0.0
82.5°	127.8	143.8	154.4	133.1	111.8	85.2	63.9	37.3	16.0	5.3	0.0
85°	26.6	31.9	37.3	42.6	63.9	63.9	47.9	31.9	16.0	5.3	0.0
87.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	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)