

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: P531489

Luminaire Tested: **GALN-SA6D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25208 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

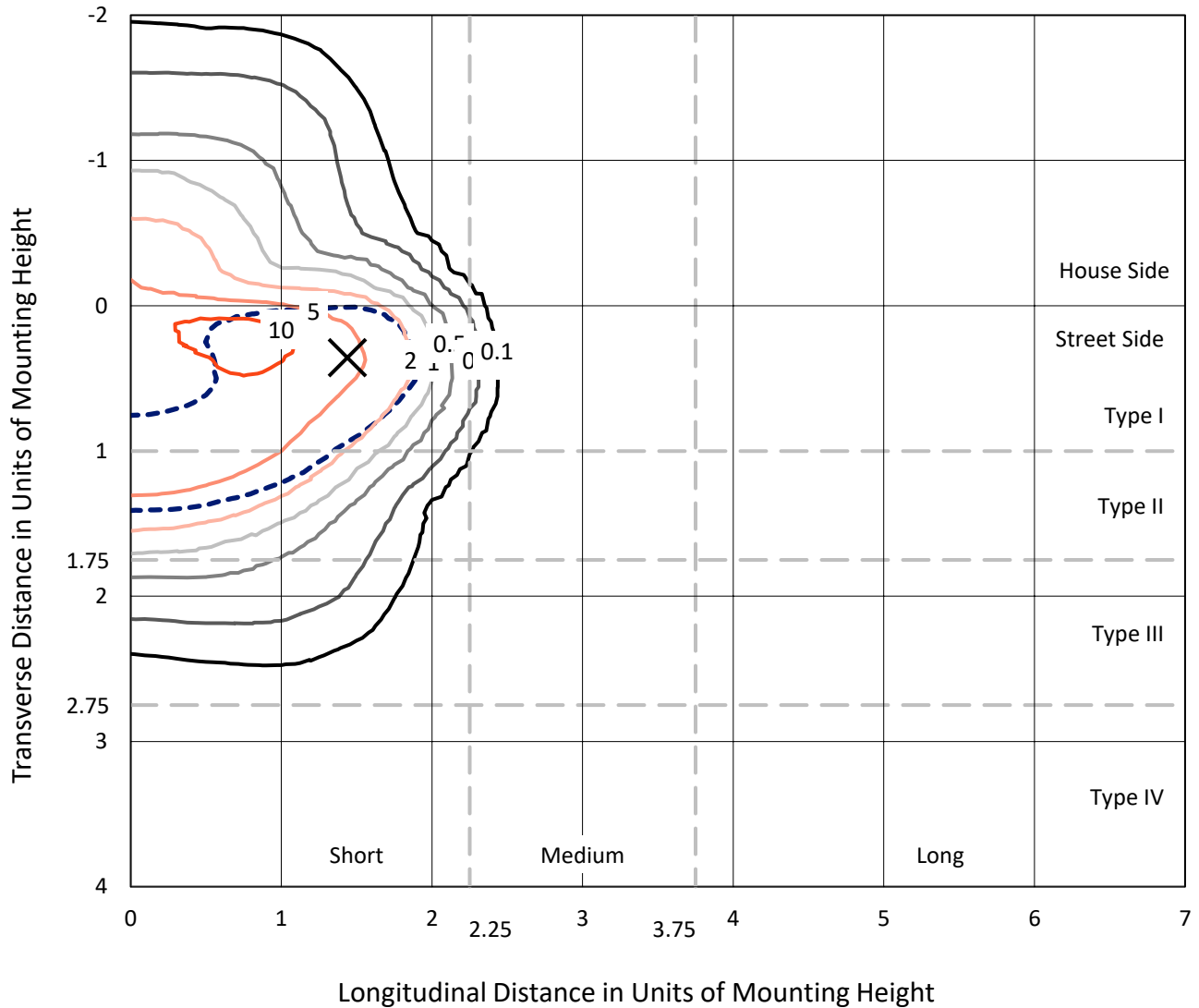
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

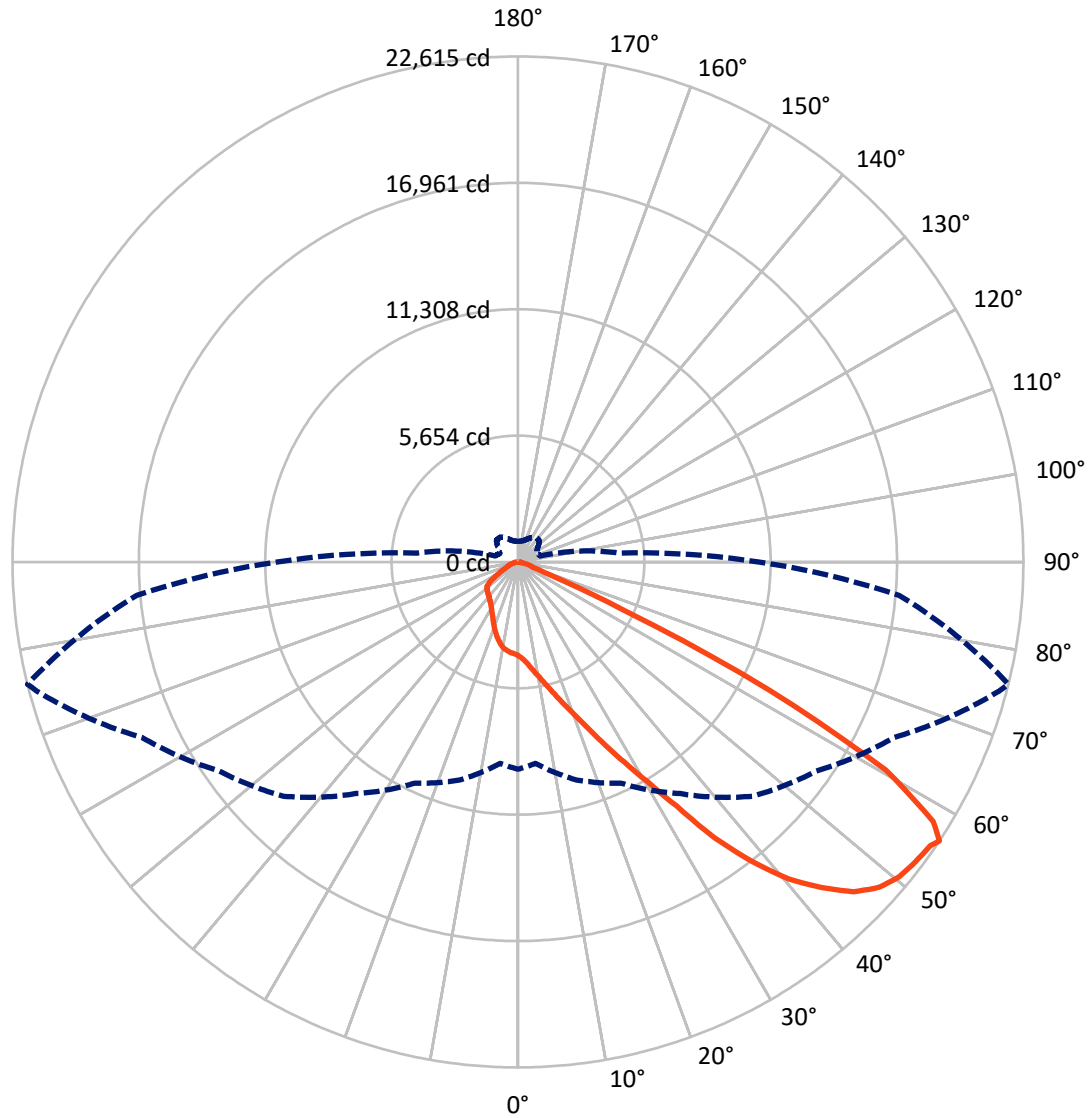
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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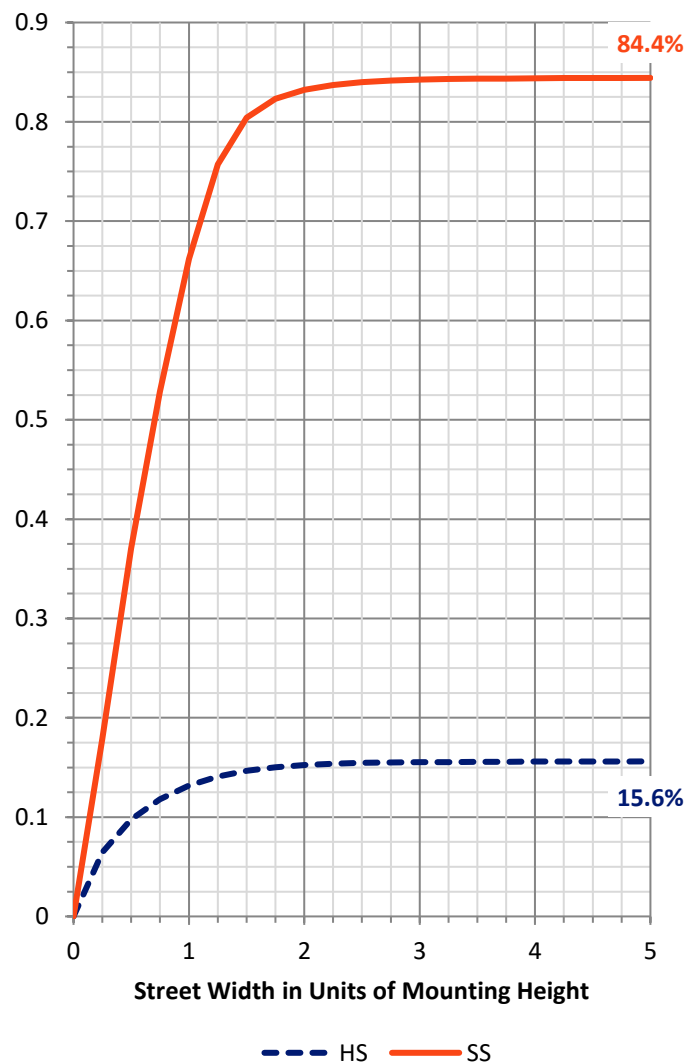
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3960.0	0.0	3960.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	21247.9	0.0	21247.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	25208.0	0.0	25208.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	1.7
10°-20°	1357.9	5.4
20°-30°	2462.3	9.8
30°-40°	4246.3	16.8
40°-50°	6898.2	27.4
50°-60°	7271.0	28.8
60°-70°	2221.6	8.8
70°-80°	284.8	1.1
80°-90°	43.3	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°	25208.0	100.0
0°-180°	25208.0	100.0



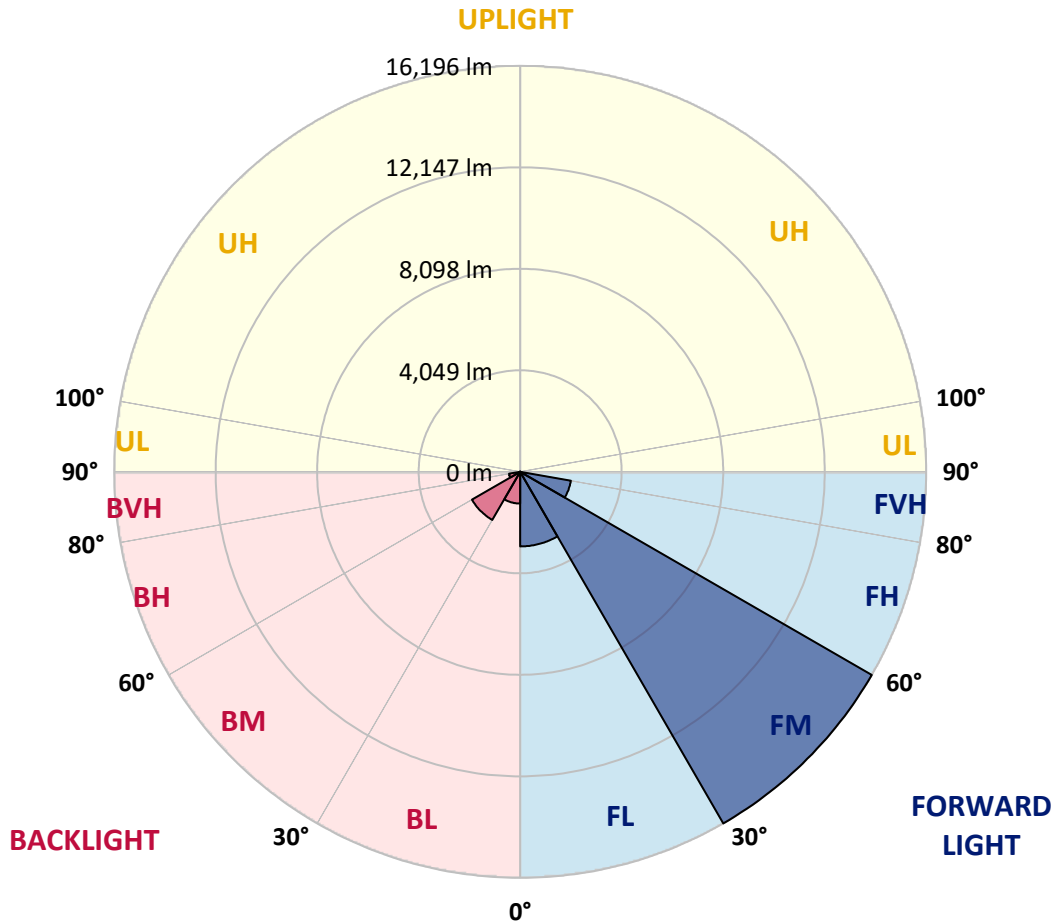
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2976.0	11.8			
FM (30°-60°)	16196.1	64.2			
FH (60°-80°)	2054.6	8.2			G2/5000
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	1266.8	5.0	B3/2500		
BM (30°-60°)	2219.4	8.8	B2/2500		
BH (60°-80°)	451.8	1.8	B1/500		G1/500
BVH (80°-90°)	22.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9
2.5°	4832.5	4721.0	4725.6	4716.3	4702.4	4651.3	4497.9	4474.7	4372.5	4344.6	4251.7
5°	5413.3	5315.7	5371.5	5287.9	5208.9	5162.4	4911.5	4795.3	4632.7	4572.3	4442.2
7.5°	5775.8	5729.3	5710.7	5715.4	5641.0	5524.8	5413.3	5157.8	4939.4	4892.9	4618.8
10°	5952.3	5924.5	5952.3	5938.4	5970.9	5984.9	5789.7	5636.4	5315.7	5236.8	4809.3
12.5°	5994.2	6049.9	6073.1	6133.6	6212.5	6347.3	6333.4	6124.3	5696.8	5645.7	5102.0
15°	6096.4	6142.8	6119.6	6217.2	6365.9	6593.6	6714.4	6681.9	6221.8	6128.9	5441.2
17.5°	6189.3	6105.7	6184.7	6379.8	6528.5	6877.0	7169.8	7304.5	6793.4	6686.5	5752.5
20°	6314.8	6291.5	6277.6	6375.2	6640.0	7104.7	7685.5	7931.8	7434.6	7323.1	6198.6
22.5°	6695.8	6700.4	6691.2	6547.1	6737.6	7262.7	8136.3	8745.0	8201.3	8108.4	6705.1
25°	7197.6	7137.2	7090.8	6974.6	6951.4	7406.7	8591.6	9739.3	9121.3	9056.3	7253.4
27.5°	7727.4	7727.4	7588.0	7481.1	7332.4	7764.5	9009.8	10705.8	10231.9	10143.6	7732.0
30°	8303.5	8336.1	8317.5	8089.8	7996.9	8154.8	9437.3	11941.8	11505.1	11393.5	8521.9
32.5°	9153.9	9084.2	9163.2	8972.6	8698.5	8837.9	10111.1	13047.7	13159.3	13001.3	9558.1
35°	10278.4	10236.5	10185.4	9874.1	9548.8	9660.3	11063.6	14409.2	15236.3	15157.3	10603.6
37.5°	11286.7	11263.4	11221.6	11007.9	10631.5	10766.2	12146.3	15826.4	17262.2	17002.0	12081.2
40°	12346.1	12471.6	12336.8	12146.3	11802.4	12099.8	13419.5	16667.5	18967.6	18651.6	13210.4
42.5°	13781.9	13684.3	13744.7	13396.2	13210.4	13535.6	14697.3	17508.5	20291.8	19915.5	14409.2
45°	15310.7	15315.3	15152.7	15041.2	14557.9	14911.0	15482.6	17973.2	21346.6	21053.9	15315.3
47.5°	16291.1	16286.4	16463.0	16639.6	16142.4	15793.9	16016.9	18414.6	21890.3	21755.5	15645.2
50°	16137.8	16184.2	16411.9	17071.7	17331.9	16862.6	16518.8	18284.5	22136.6	22122.6	15928.7
52.5°	14037.5	14190.8	14571.8	15524.4	16834.8	17415.6	17043.8	18526.1	22257.4	22280.6	16351.5
55°	10687.3	10770.9	11495.8	12652.8	14102.5	16091.3	16834.8	18716.6	22350.3	22392.1	16862.6
56°	9270.0	9047.0	10092.5	10914.9	12648.1	14822.8	16305.0	18567.9	22294.5	22615.2	17118.2
57.5°	6997.8	6849.1	7694.8	8721.7	10389.9	12685.3	14660.1	17866.3	21918.2	21913.5	16751.1
60°	4256.3	4107.6	4758.2	5362.2	6296.2	7811.0	9906.6	14228.0	18530.8	18921.1	13563.5
62.5°	2532.4	2625.3	3266.6	3633.7	3935.7	4093.7	5125.2	8456.9	12364.7	12643.5	8415.1
65°	1686.7	1719.3	2202.5	2806.6	2941.3	2341.9	2086.3	3424.6	5362.2	5190.3	3471.0
67.5°	1040.8	1115.2	1477.6	2109.6	2337.3	1710.0	989.7	1277.8	1477.6	1477.6	1003.7
70°	631.9	669.1	985.1	1435.8	1603.1	1101.3	720.2	720.2	710.9	697.0	599.4
72.5°	302.0	325.3	501.8	738.8	752.8	580.8	557.6	608.7	594.8	590.1	497.2
75°	130.1	139.4	176.6	232.3	264.9	246.3	339.2	436.8	450.7	436.8	357.8
77.5°	41.8	46.5	65.1	83.6	88.3	106.9	144.0	181.2	209.1	195.2	176.6
80°	4.6	9.3	18.6	41.8	65.1	83.6	106.9	120.8	134.8	134.8	125.5
82.5°	4.6	4.6	18.6	37.2	60.4	79.0	102.2	116.2	134.8	139.4	130.1
85°	0.0	4.6	13.9	32.5	51.1	51.1	46.5	46.5	32.5	32.5	32.5
87.5°	0.0	0.0	4.6	4.6	4.6	9.3	9.3	9.3	9.3	9.3	9.3
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°	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9	4195.9
2.5°	4233.1	4223.8	4098.3	4019.3	3977.5	3893.9	3842.8	3805.6	3777.7	3745.2	3749.8
5°	4288.8	4256.3	4047.2	3903.2	3731.2	3638.3	3559.3	3494.3	3452.4	3443.2	3424.6
7.5°	4446.8	4274.9	3958.9	3698.7	3480.3	3387.4	3317.7	3275.9	3294.5	3252.6	3285.2
10°	4567.6	4312.1	3852.1	3475.7	3257.3	3187.6	3150.4	3182.9	3229.4	3210.8	3187.6
12.5°	4716.3	4349.2	3680.1	3261.9	3057.5	3006.4	3071.4	3131.8	3224.8	3261.9	3215.5
15°	4883.6	4391.1	3461.7	3015.7	2885.6	2927.4	3038.9	3145.8	3238.7	3285.2	3313.0
17.5°	5088.1	4377.1	3248.0	2820.5	2722.9	2843.7	2978.5	3076.1	3215.5	3285.2	3266.6
20°	5278.6	4330.7	3011.0	2625.3	2630.0	2741.5	2853.0	3011.0	3085.4	3178.3	3145.8
22.5°	5459.8	4247.0	2764.7	2490.6	2490.6	2662.5	2718.3	2820.5	2885.6	2932.0	2927.4
25°	5715.4	4089.0	2560.3	2360.5	2416.2	2527.8	2574.2	2606.8	2578.9	2616.1	2620.7
27.5°	5896.6	3926.4	2393.0	2244.3	2346.5	2430.2	2416.2	2397.7	2332.6	2281.5	2314.0
30°	6091.7	3735.9	2249.0	2165.3	2221.1	2295.4	2239.7	2183.9	2081.7	1998.1	2002.7
32.5°	6370.5	3647.6	2123.5	2072.4	2146.7	2156.0	2095.6	2012.0	1909.8	1830.8	1826.1
35°	6891.0	3591.8	2016.6	2012.0	2025.9	2030.6	1970.2	1867.9	1826.1	1761.1	1784.3
37.5°	7411.4	3564.0	1942.3	1923.7	1919.1	1923.7	1854.0	1756.4	1835.4	1830.8	1840.1
40°	8075.8	3689.4	1835.4	1812.2	1816.8	1816.8	1728.5	1700.7	1840.1	1854.0	1858.7
42.5°	8749.6	3847.4	1765.7	1691.4	1710.0	1710.0	1663.5	1631.0	1728.5	1635.6	1621.7
45°	9335.1	4079.7	1691.4	1570.6	1617.0	1640.3	1626.3	1570.6	1510.2	1352.2	1352.2
47.5°	9525.6	4284.2	1603.1	1454.4	1491.6	1593.8	1552.0	1435.8	1328.9	1198.8	1189.5
50°	9860.2	4507.2	1533.4	1319.6	1398.6	1524.1	1482.3	1366.1	1245.3	1152.4	1157.0
52.5°	10204.0	4762.8	1403.3	1161.7	1259.2	1468.3	1468.3	1338.2	1152.4	1087.3	1078.0
55°	10719.8	4753.5	1171.0	952.6	1124.5	1384.7	1407.9	1198.8	1031.6	980.4	980.4
56°	10794.1	4539.8	1054.8	892.2	1064.1	1361.5	1366.1	1161.7	985.1	929.3	929.3
57.5°	10236.5	4098.3	924.7	817.8	989.7	1319.6	1324.3	1129.1	947.9	868.9	859.6
60°	7876.0	2774.0	771.3	729.5	896.8	1189.5	1212.8	1026.9	831.7	771.3	766.7
62.5°	4446.8	1538.0	678.4	659.8	771.3	1013.0	1082.7	896.8	706.3	673.8	683.1
65°	2030.6	845.7	571.5	534.4	622.6	780.6	873.6	738.8	580.8	543.7	543.7
67.5°	743.5	576.2	487.9	422.8	436.8	506.5	566.9	478.6	385.7	329.9	343.9
70°	529.7	483.2	427.5	367.1	339.2	329.9	325.3	269.5	190.5	148.7	158.0
72.5°	427.5	399.6	357.8	311.3	264.9	223.0	190.5	139.4	88.3	60.4	55.8
75°	306.7	292.7	260.2	223.0	185.9	158.0	130.1	88.3	46.5	23.2	23.2
77.5°	158.0	158.0	153.3	139.4	116.2	92.9	74.3	51.1	27.9	9.3	9.3
80°	120.8	130.1	134.8	120.8	106.9	83.6	60.4	37.2	18.6	4.6	4.6
82.5°	116.2	134.8	144.0	125.5	106.9	79.0	60.4	37.2	18.6	4.6	4.6
85°	27.9	27.9	41.8	46.5	60.4	65.1	51.1	32.5	13.9	4.6	4.6
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	4.6	4.6	4.6	4.6	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)