

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: P383577

Luminaire Tested: **GLEON-SA8C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52437.8 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

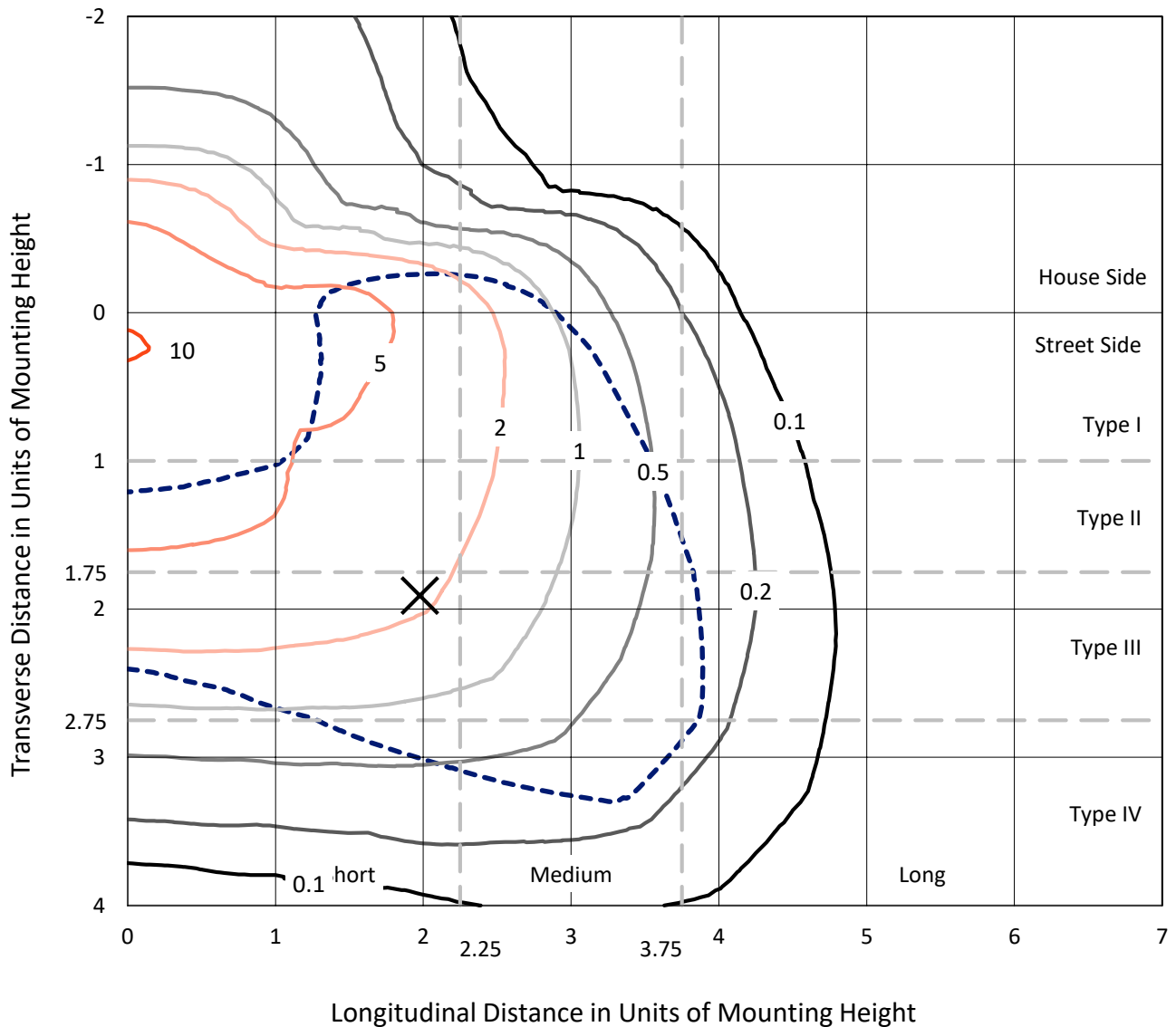
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

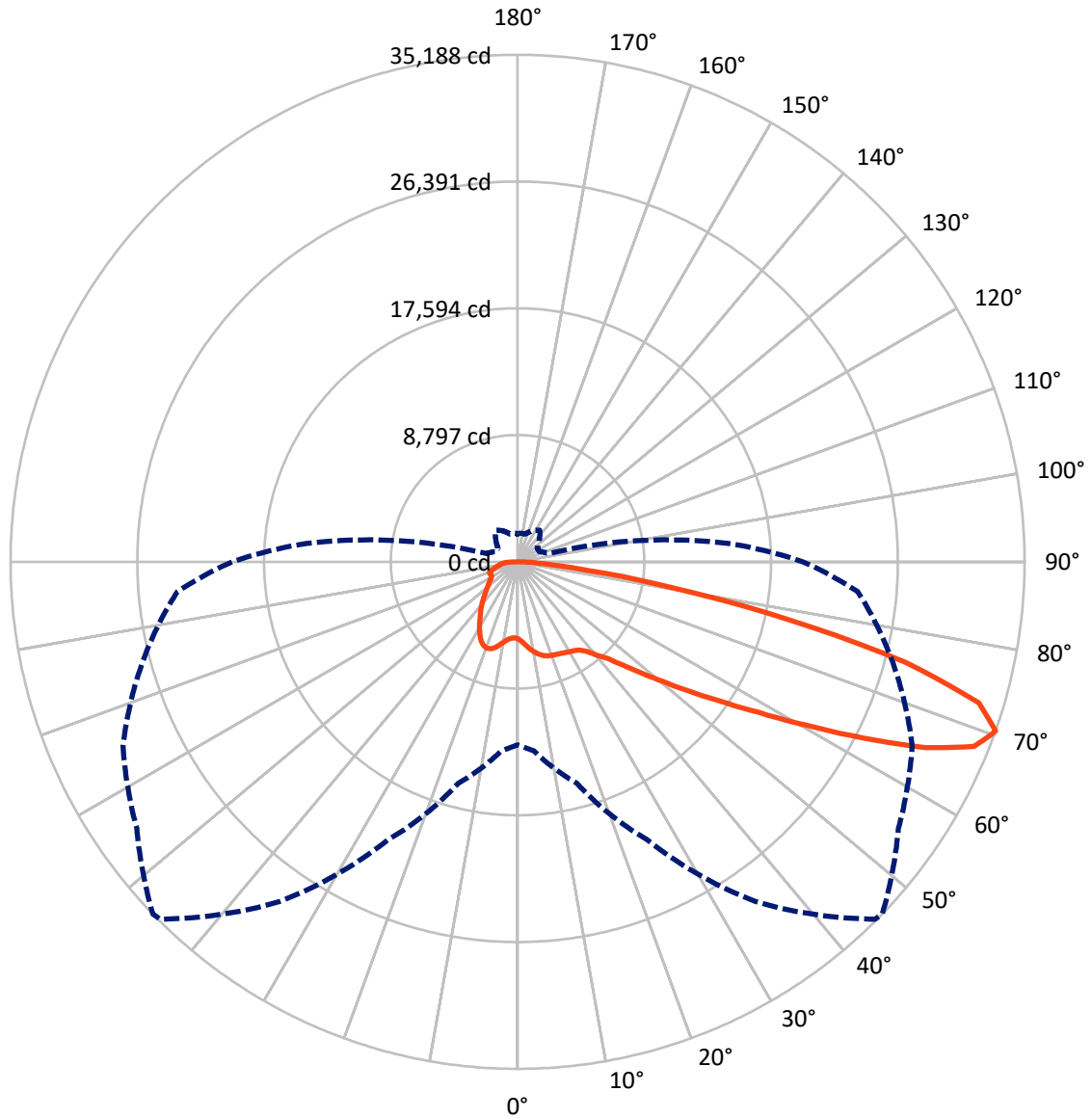
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12018.6	0.0	12018.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	40419.2	0.0	40419.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	52437.8	0.0	52437.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	1.0
10°-20°	1814.5	3.5
20°-30°	3025.5	5.8
30°-40°	4293.3	8.2
40°-50°	6315.2	12.0
50°-60°	10694.8	20.4
60°-70°	15181.1	29.0
70°-80°	9222.7	17.6
80°-90°	1345.9	2.6
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°	52437.8	100.0
0°-180°	52437.8	100.0

Coefficient of Utilization



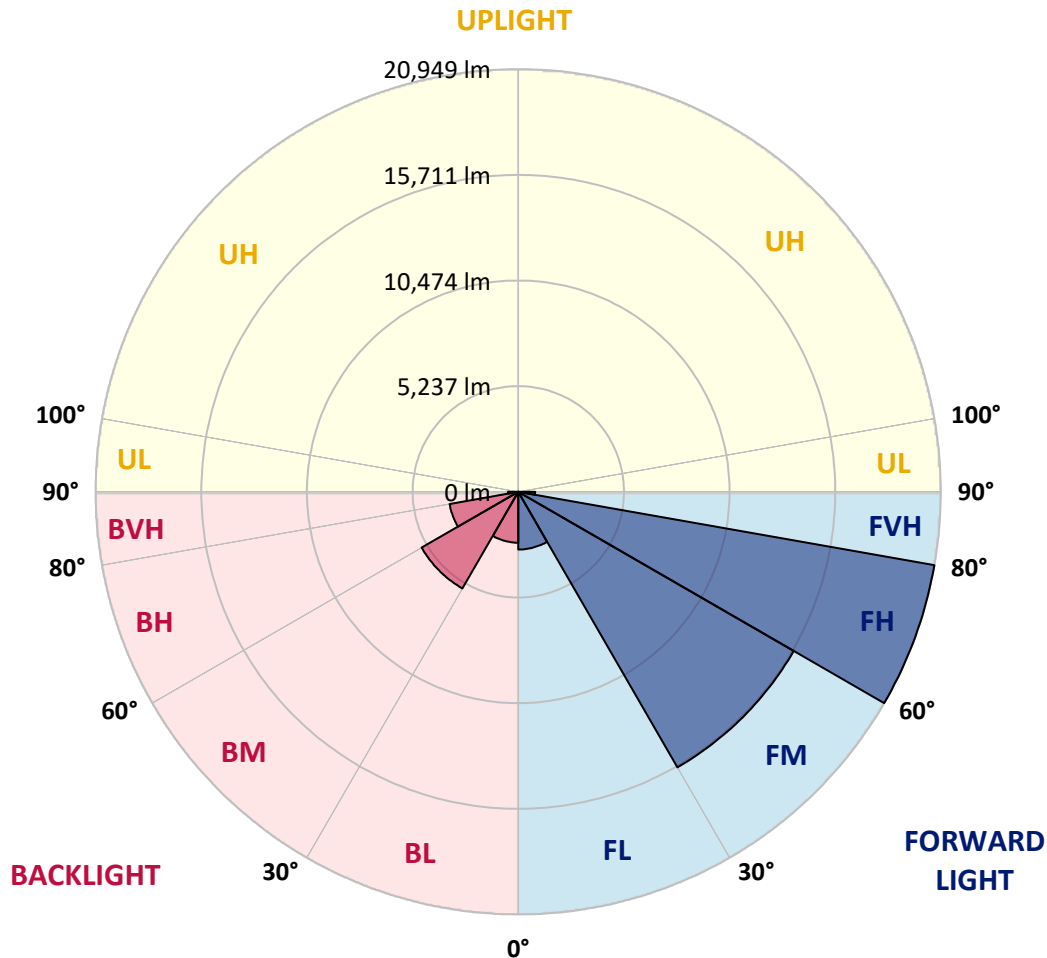
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.2	5.5			
FM (30°-60°)	15770.9	30.1			
FH (60°-80°)	20948.6	39.9			G5
FVH (80°-90°)	838.4	1.6			G5
BL (0°-30°)	2523.3	4.8	B4/5000		
BM (30°-60°)	5532.5	10.6	B4/8500		
BH (60°-80°)	3455.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	507.5	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4
2.5°	5609.8	5613.3	5620.5	5602.6	5552.3	5538.0	5532.6	5480.6	5446.5	5396.2	5353.1
5°	6058.4	6062.0	6051.2	6000.9	5889.7	5807.2	5800.0	5681.5	5573.9	5459.1	5372.9
7.5°	6526.8	6532.2	6498.1	6403.0	6246.9	6103.3	6094.3	5932.7	5769.4	5595.4	5466.2
10°	6941.3	6919.8	6864.2	6731.4	6546.5	6370.7	6363.5	6194.8	6006.3	5796.4	5624.1
12.5°	7217.7	7199.7	7127.9	6966.5	6763.7	6602.2	6587.8	6431.7	6248.6	6018.9	5812.6
15°	7370.2	7382.8	7285.9	7102.9	6905.5	6769.1	6756.5	6645.2	6481.9	6250.4	6013.5
17.5°	7390.0	7400.8	7307.4	7126.2	6964.6	6871.4	6866.0	6792.4	6674.0	6451.4	6203.7
20°	7275.1	7282.3	7205.1	7056.2	6950.3	6921.6	6919.8	6887.5	6799.6	6602.2	6361.7
22.5°	7108.2	7113.6	7058.0	6950.3	6914.4	6959.3	6971.8	6959.3	6896.4	6711.6	6485.5
25°	7066.9	7063.4	7005.9	6896.4	6927.0	7022.1	7038.2	7043.6	7000.6	6839.0	6643.4
27.5°	7266.2	7253.6	7144.1	6968.3	6988.0	7102.9	7124.4	7176.5	7149.5	7007.8	6822.8
30°	7842.2	7820.6	7596.3	7241.0	7144.1	7203.3	7230.2	7312.8	7318.1	7199.7	7061.6
32.5°	8814.9	8787.9	8386.0	7750.7	7407.9	7305.7	7330.7	7454.5	7520.9	7429.5	7280.5
35°	10044.1	10013.6	9486.0	8617.5	7849.4	7501.2	7519.2	7617.9	7750.7	7621.5	7424.1
37.5°	11325.4	11251.9	10744.0	9636.8	8551.0	7919.4	7919.4	7931.9	7994.7	7725.5	7592.8
40°	12599.6	12526.0	12066.5	10835.5	9459.1	8578.0	8536.7	8258.5	8208.2	7976.7	7931.9
42.5°	13783.9	13762.4	13491.4	12190.4	10525.1	9225.8	9168.4	8696.4	8707.2	8563.6	8565.4
45°	15043.7	15043.7	14823.0	13557.8	11766.8	10266.6	10209.2	9514.7	9622.4	9556.0	9715.7
47.5°	16072.0	16104.3	16073.8	14982.7	13211.5	11589.2	11485.1	10648.9	10950.3	11178.3	11643.0
50°	17121.8	17172.1	17177.5	16545.8	14957.6	13161.3	13042.8	12154.5	12827.4	13480.7	14394.1
52.5°	18645.4	18758.5	18308.0	18105.2	17096.7	15027.5	14910.9	14090.8	15214.2	16131.2	17705.1
55°	20057.7	19959.0	19637.8	19763.4	19386.5	17152.3	17064.4	16344.7	17873.7	19065.3	21109.3
57.5°	20822.1	20815.0	21138.0	21676.4	21855.9	19772.4	19698.8	18998.9	20872.4	21767.9	24305.4
60°	21719.5	21732.0	22532.4	23754.5	24493.8	23034.8	23002.5	22471.4	23785.0	24291.0	26812.4
62.5°	21845.1	22071.2	23449.4	25552.6	26963.2	26846.5	26918.3	25599.3	26390.7	26304.6	28684.1
65°	20400.4	20698.3	23192.7	26096.4	29418.1	31015.2	31081.6	28745.1	28445.5	28025.5	29353.4
67.5°	17439.4	17880.9	20590.6	24913.8	30227.4	34096.5	34189.8	31183.9	30150.3	28608.8	27742.0
70°	12691.0	13181.0	15908.7	21278.0	28784.6	35081.7	35187.5	32262.5	30214.8	26948.7	23682.7
72.5°	7666.4	8050.3	10298.9	15664.6	24294.7	33287.2	33475.5	30895.0	27585.8	22826.7	17487.9
75°	3366.6	3617.9	4979.9	9026.6	17392.8	27541.0	27776.0	26444.5	22414.0	16588.8	10336.6
77.5°	1433.8	1505.7	2042.2	3921.1	9832.4	18819.5	19142.5	19322.0	15207.0	9026.6	4367.9
80°	893.7	922.4	1155.7	1774.8	4601.2	10569.9	10918.0	11368.5	7551.5	3318.1	1525.4
82.5°	543.7	576.1	768.1	1073.1	2395.8	4791.4	4958.3	5276.0	2930.5	1433.8	789.6
85°	326.6	350.0	470.2	678.4	1363.9	1884.2	1882.5	2081.6	1380.0	922.4	416.3
87.5°	156.1	174.1	251.2	351.8	687.3	707.0	662.1	750.1	838.0	604.8	210.0
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°	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4	5342.4
2.5°	5338.8	5331.6	5308.2	5290.4	5286.7	5276.0	5267.0	5272.4	5279.5	5281.4	5281.4
5°	5337.0	5317.3	5286.7	5274.1	5290.4	5311.9	5338.8	5374.7	5396.2	5412.4	5423.1
7.5°	5423.1	5385.5	5351.4	5344.2	5376.5	5433.9	5494.9	5570.3	5622.4	5658.2	5665.4
10°	5566.7	5520.1	5486.0	5493.1	5550.5	5633.1	5719.2	5816.1	5895.1	5943.6	5947.2
12.5°	5731.8	5686.9	5654.6	5685.1	5780.3	5880.8	5970.5	6054.8	6126.6	6175.0	6175.0
15°	5922.0	5889.7	5852.1	5922.0	6051.2	6140.9	6178.7	6219.9	6259.4	6295.3	6288.1
17.5°	6105.1	6074.5	6054.8	6137.4	6271.9	6313.2	6288.1	6257.6	6257.6	6277.3	6281.0
20°	6263.0	6236.1	6248.6	6329.4	6399.4	6356.3	6263.0	6166.1	6126.6	6137.4	6148.1
22.5°	6401.1	6388.6	6426.3	6464.0	6413.7	6263.0	6090.7	5959.7	5911.2	5907.7	5911.2
25°	6562.7	6560.9	6607.6	6539.4	6316.8	6038.7	5807.2	5679.7	5652.8	5674.3	5710.3
27.5°	6763.7	6783.4	6806.7	6557.3	6119.4	5699.5	5464.4	5376.5	5403.3	5455.4	5489.5
30°	7020.3	7074.1	7023.9	6512.4	5835.9	5311.9	5087.6	5062.4	5136.0	5209.6	5245.5
32.5°	7269.7	7354.1	7232.1	6395.8	5469.8	4901.0	4726.9	4719.7	4809.4	4881.2	4931.4
35°	7470.7	7637.6	7388.2	6164.3	5046.3	4522.3	4394.9	4346.4	4378.7	4463.0	4520.5
37.5°	7732.7	8010.8	7495.9	5810.7	4586.8	4210.0	4061.1	3949.8	3921.1	3955.2	3983.9
40°	8211.9	8579.7	7546.1	5317.3	4138.2	3897.8	3747.1	3583.8	3470.7	3388.1	3389.9
42.5°	8994.3	9320.9	7513.8	4717.9	3723.7	3592.7	3422.2	3233.8	3050.7	2864.1	2849.8
45°	10264.8	10422.7	7416.9	4082.6	3359.4	3273.3	3113.5	2925.2	2681.1	2469.3	2449.6
47.5°	12298.1	11948.1	7266.2	3528.1	3038.1	3002.3	2855.1	2638.0	2379.5	2209.1	2194.7
50°	15070.7	14150.0	7192.6	3086.6	2754.7	2765.4	2645.1	2415.5	2171.4	2045.8	2031.4
52.5°	18387.0	16714.5	7334.4	2745.6	2526.7	2564.5	2474.7	2259.4	2054.8	1956.1	1941.7
55°	21827.1	19370.4	7486.8	2498.0	2311.4	2384.9	2354.5	2176.7	1991.9	1900.5	1887.9
57.5°	24772.0	21353.4	7181.8	2297.0	2119.4	2234.2	2261.1	2124.8	1959.7	1877.1	1862.7
60°	26625.8	22151.9	6381.4	2108.6	1966.9	2114.0	2207.3	2110.4	1972.2	1965.0	1954.3
62.5°	27505.1	22082.0	5180.9	1959.7	1871.8	2062.0	2246.8	2191.2	2115.7	2180.4	2185.8
65°	27110.3	21026.8	3858.3	1861.0	1803.6	2081.6	2365.2	2343.7	2157.1	2221.6	2230.6
67.5°	24511.8	18509.0	2857.0	1774.8	1728.1	2137.3	2580.6	2393.9	2076.3	2123.0	2094.2
70°	19811.9	14674.0	2203.7	1677.9	1651.0	2130.2	2677.5	2363.4	1988.4	1999.1	1922.0
72.5°	13661.9	10006.4	1792.8	1588.2	1539.8	1941.7	2609.3	2288.1	1914.8	1832.3	1730.0
75°	7429.5	5371.1	1523.5	1494.9	1344.1	1704.8	2483.7	2234.2	1848.4	1738.9	1681.5
77.5°	2923.3	2228.8	1322.6	1367.4	1175.4	1505.7	2343.7	2131.9	1756.9	1613.3	1584.6
80°	1193.4	1137.8	1096.4	1182.6	1010.4	1317.2	2175.0	2011.7	1647.4	1496.6	1439.2
82.5°	676.6	707.0	852.4	933.1	820.1	1213.2	2094.2	1914.8	1516.4	1340.5	1272.3
85°	346.3	414.5	594.0	669.4	603.0	1031.9	1929.1	1676.1	1216.7	1026.5	1031.9
87.5°	166.9	231.5	375.0	419.9	391.2	746.5	1441.0	1214.9	947.5	750.1	726.8
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)