

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: P383431

Luminaire Tested: **GLEON-SA7B-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7B-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37662.5 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

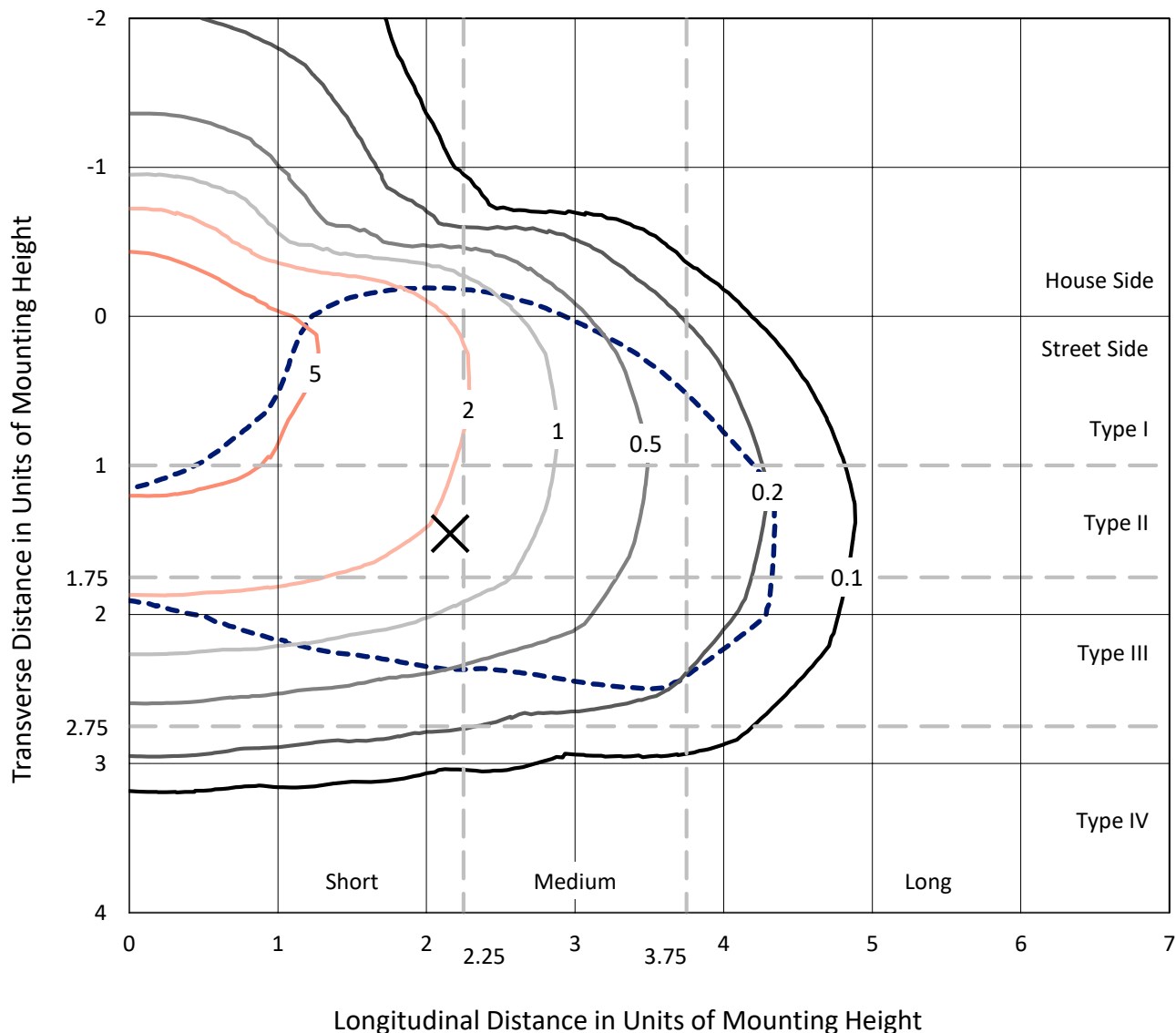
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

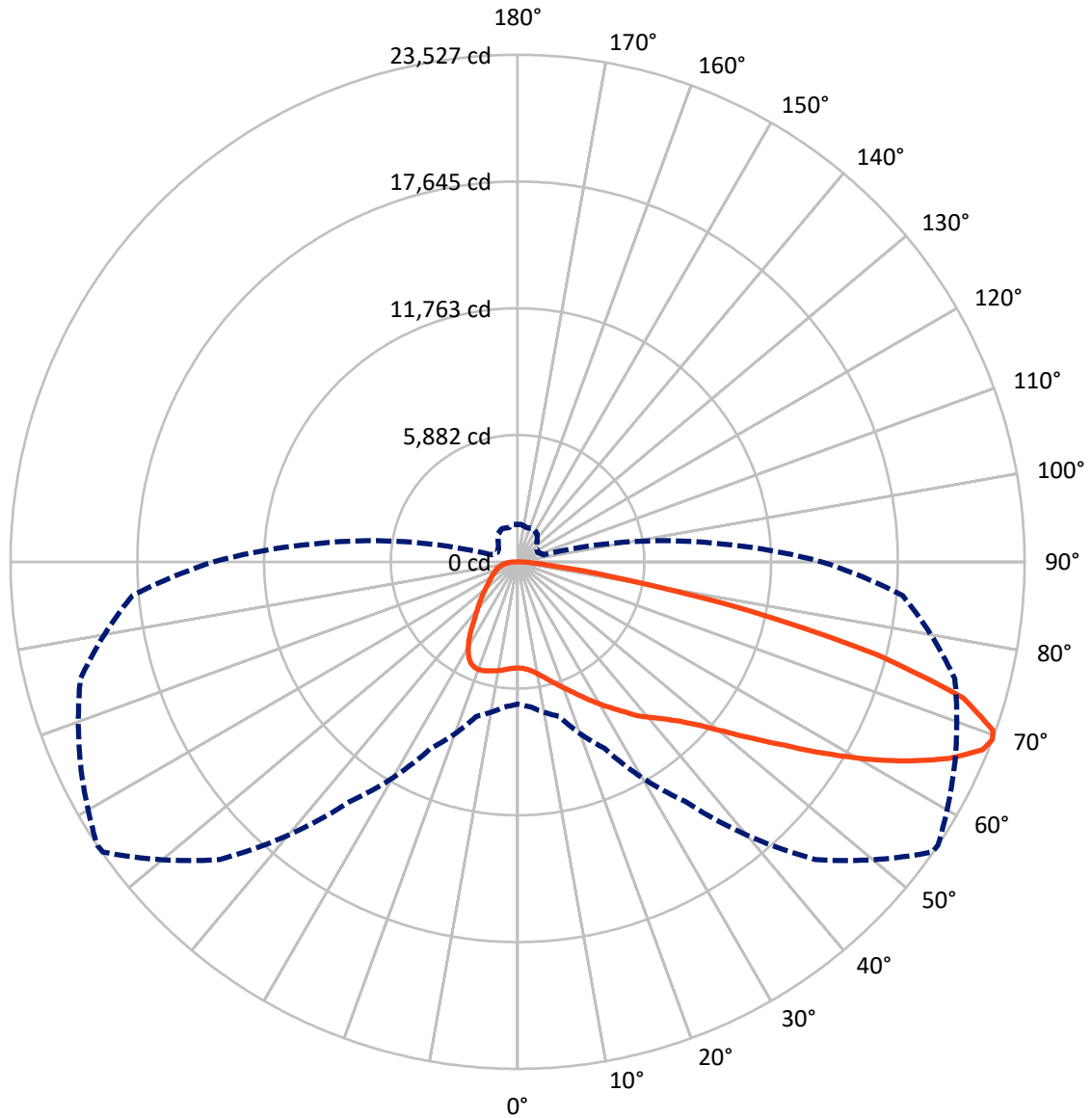
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8387.4	0.0	8387.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	29275.1	0.0	29275.1
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	37662.5	0.0	37662.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.6	1.3
10°-20°	1555.1	4.1
20°-30°	2714.5	7.2
30°-40°	3899.3	10.4
40°-50°	5396.4	14.3
50°-60°	7906.5	21.0
60°-70°	9639.5	25.6
70°-80°	5329.4	14.2
80°-90°	738.1	2.0
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°	37662.5	100.0
0°-180°	37662.5	100.0

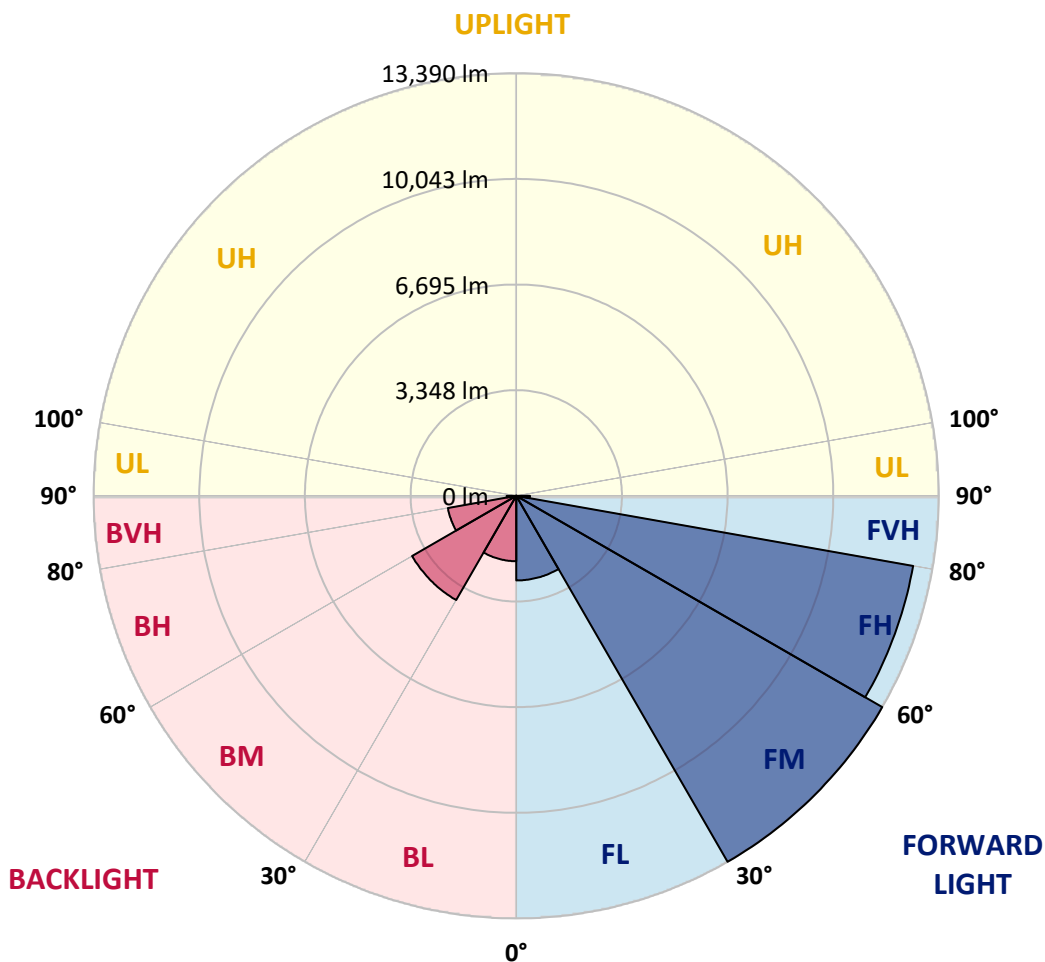


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.5	7.1			
FM (30°-60°)	13390.4	35.6			
FH (60°-80°)	12769.5	33.9			G5
FVH (80°-90°)	434.8	1.2			G3/500
BL (0°-30°)	2072.7	5.5	B3/2500		
BM (30°-60°)	3811.9	10.1	B3/5000		
BH (60°-80°)	2199.4	5.8	B3/2500		G3/2500
BVH (80°-90°)	303.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8
2.5°	4954.9	4960.1	4956.2	4966.6	4954.9	4962.7	4956.2	4956.2	4952.4	4940.6	4927.7
5°	5032.8	5043.2	5036.7	5047.0	5032.8	5035.4	5023.7	5023.7	5012.0	4987.4	4961.4
7.5°	5154.7	5166.5	5161.2	5171.6	5152.1	5152.1	5136.6	5135.2	5112.0	5071.7	5041.9
10°	5300.0	5315.6	5310.5	5326.0	5310.5	5315.6	5300.0	5300.0	5268.9	5211.8	5174.2
12.5°	5511.5	5531.0	5516.7	5515.4	5509.0	5519.3	5506.4	5503.8	5475.2	5397.4	5345.5
15°	5794.4	5815.2	5785.3	5782.7	5746.3	5742.5	5742.5	5738.6	5720.4	5627.0	5541.4
17.5°	6120.1	6126.5	6100.6	6059.1	6012.4	5982.5	5978.6	5989.0	5989.0	5880.0	5743.8
20°	6439.2	6450.9	6430.1	6383.4	6323.7	6279.7	6248.4	6269.2	6267.9	6138.2	5944.9
22.5°	6787.0	6814.2	6783.1	6723.4	6653.3	6604.0	6549.5	6567.7	6569.0	6409.4	6142.1
25°	7237.1	7212.5	7193.0	7108.7	7008.8	6958.2	6907.6	6925.8	6920.6	6701.3	6345.8
27.5°	7635.4	7640.6	7614.7	7525.1	7409.7	7298.1	7295.5	7307.2	7287.8	7004.9	6537.8
30°	8098.7	8101.2	8064.9	7984.5	7858.6	7714.6	7680.9	7700.4	7658.8	7292.9	6740.2
32.5°	8559.2	8572.2	8532.0	8434.7	8333.4	8158.3	8090.9	8103.8	8000.0	7587.5	6949.1
35°	8962.7	8980.9	8967.9	8903.1	8792.8	8642.2	8561.9	8554.0	8425.6	7948.2	7225.5
37.5°	9374.1	9390.9	9376.6	9322.2	9278.0	9118.5	9075.6	9075.6	8852.5	8316.6	7577.1
40°	9797.0	9823.0	9806.1	9730.9	9693.2	9620.6	9518.1	9493.4	9252.0	8759.1	8150.6
42.5°	10190.1	10223.8	10291.4	10247.2	10170.6	10181.1	9974.7	9961.8	9785.3	9412.9	8870.7
45°	10748.0	10797.3	10911.5	10877.8	10862.2	10805.1	10559.9	10548.2	10480.7	10292.7	9764.6
47.5°	11356.5	11424.0	11630.3	11636.8	11804.1	11696.4	11363.0	11322.8	11338.3	11346.2	10855.7
50°	11917.0	11991.0	12329.6	12489.2	12883.6	12907.0	12373.7	12337.4	12398.3	12577.4	12127.2
52.5°	12364.6	12458.1	12881.1	13374.0	14050.1	14242.1	13618.0	13590.7	13636.2	13944.9	13564.8
55°	12692.9	12794.1	13254.7	14152.5	15232.0	15570.6	15050.4	15024.4	15053.0	15446.1	15128.2
57.5°	12769.5	12794.1	13462.3	14676.7	16229.7	17043.2	16803.2	16751.3	16611.2	16953.7	16853.8
60°	12410.1	12508.6	13291.0	14860.9	17001.7	18495.0	18635.2	18570.3	18177.2	18457.4	18377.0
62.5°	11680.9	11857.3	12651.3	14580.7	17304.1	19680.9	20432.2	20354.3	19677.1	19858.6	19472.0
65°	10489.9	10565.1	11399.3	13614.1	16920.0	20439.9	22034.5	21995.6	21143.1	20859.0	19674.5
67.5°	8359.4	8500.8	9209.3	11593.9	15348.7	20350.4	23273.6	23269.7	22100.7	21230.1	18957.0
69°	6604.0	6750.6	7425.3	9550.5	13581.7	19531.8	23481.1	23526.5	22370.6	21004.3	17932.0
70°	5265.0	5435.0	5898.2	8044.2	12013.1	18452.3	23308.6	23390.3	22318.7	20631.9	16986.1
72.5°	2240.7	2378.2	2707.7	4146.6	7321.5	13778.9	21311.9	21620.6	21115.9	18883.0	14038.3
75°	978.3	1021.1	1170.3	1690.6	3250.1	7499.2	16695.5	17266.4	18055.3	15961.1	10457.4
77.5°	716.2	734.3	816.1	992.6	1458.3	2832.3	10736.4	11068.5	13021.2	11614.7	6414.5
80°	554.0	566.9	630.6	729.1	952.3	1145.6	4896.6	5182.0	7321.5	5965.6	2671.4
82.5°	441.1	450.2	494.4	537.1	657.8	694.1	1625.7	1803.5	2702.6	1647.7	707.1
85°	410.0	420.4	436.0	391.8	421.7	407.4	703.2	735.6	816.1	647.4	295.9
87.5°	185.6	219.3	432.1	304.9	224.5	179.0	288.0	301.0	338.6	339.9	131.1
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°	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8	4923.8
2.5°	4935.4	4931.6	4938.0	4922.5	4942.0	4940.6	4934.2	4936.7	4949.8	4948.5	4949.8
5°	4965.3	4962.7	4970.6	4958.8	4982.2	4989.9	4991.2	5003.0	5017.2	5021.1	5021.1
7.5°	5040.6	5040.6	5044.4	5028.9	5044.4	5043.2	5036.7	5048.3	5062.6	5063.9	5062.6
10°	5170.3	5171.6	5165.2	5124.9	5112.0	5076.9	5044.4	5045.7	5063.9	5078.2	5082.1
12.5°	5333.8	5328.6	5300.0	5226.1	5171.6	5100.2	5066.5	5065.2	5083.4	5095.1	5098.9
15°	5520.6	5506.4	5432.4	5311.8	5215.7	5145.7	5091.2	5078.2	5067.8	5054.9	5056.2
17.5°	5697.1	5664.6	5541.4	5374.0	5272.8	5179.4	5074.3	4989.9	4931.6	4897.9	4887.5
20°	5876.1	5812.6	5634.8	5432.4	5304.0	5133.9	4931.6	4760.3	4653.9	4604.6	4595.5
22.5°	6039.6	5937.1	5721.8	5493.3	5279.3	4980.9	4663.0	4413.9	4266.0	4199.8	4205.0
25°	6199.2	6056.5	5812.6	5536.2	5154.7	4711.0	4289.3	3983.1	3811.9	3737.9	3735.3
27.5°	6339.3	6177.1	5911.1	5501.2	4922.5	4326.9	3846.9	3548.5	3405.8	3342.2	3331.9
30°	6500.2	6328.9	6042.2	5367.5	4582.6	3883.2	3414.9	3204.7	3103.5	3039.9	3028.3
32.5°	6696.2	6535.3	6149.9	5124.9	4147.9	3420.1	3077.6	2930.9	2838.8	2767.4	2754.5
35°	6981.6	6807.7	6177.1	4777.2	3670.5	3054.2	2829.8	2679.2	2554.7	2462.5	2453.5
37.5°	7339.7	7148.9	6114.9	4326.9	3207.3	2816.7	2623.4	2437.9	2275.7	2146.0	2125.2
40°	7856.0	7568.0	5942.2	3808.0	2866.1	2633.9	2422.3	2210.8	2009.7	1858.0	1828.1
42.5°	8476.2	8059.7	5677.6	3291.6	2615.7	2448.3	2222.5	1960.4	1768.4	1660.8	1645.1
45°	9265.1	8570.9	5310.5	2840.1	2369.1	2262.7	2007.1	1765.8	1646.4	1567.3	1554.4
47.5°	10165.5	9144.4	4925.1	2472.9	2160.3	2088.9	1834.6	1678.9	1584.2	1521.9	1510.2
50°	11272.2	9791.8	4516.4	2171.9	1950.1	1880.0	1752.9	1630.9	1555.6	1507.6	1496.0
52.5°	12520.4	10522.3	4221.9	1934.5	1776.2	1725.6	1710.0	1605.0	1543.9	1507.6	1496.0
55°	13864.5	11265.7	3904.0	1734.7	1625.7	1640.0	1681.4	1607.6	1566.0	1521.9	1505.0
57.5°	15209.9	12033.8	3549.8	1566.0	1506.3	1576.4	1662.1	1612.7	1577.7	1534.9	1519.3
60°	16273.9	12520.4	3001.0	1424.6	1411.6	1506.3	1615.3	1573.8	1528.4	1529.7	1527.1
62.5°	16770.7	12494.4	2395.1	1298.8	1316.9	1411.6	1540.0	1512.8	1475.2	1525.8	1529.7
65°	16491.8	11871.6	1864.4	1184.6	1215.7	1313.0	1462.3	1483.0	1496.0	1593.2	1606.3
67.5°	15321.5	10659.8	1444.1	1084.7	1123.6	1245.6	1470.0	1615.3	1632.2	1734.7	1733.4
69°	14111.0	9523.2	1254.6	1032.8	1078.2	1262.4	1571.2	1699.6	1636.1	1745.1	1729.5
70°	13096.4	8624.1	1153.4	997.8	1057.4	1292.2	1638.7	1698.4	1616.6	1710.0	1684.1
72.5°	10086.3	6204.4	978.3	932.9	987.3	1236.4	1658.2	1660.8	1571.2	1589.4	1545.3
75°	6918.0	3920.9	853.8	844.6	881.0	1114.5	1595.8	1586.8	1453.1	1427.2	1390.9
77.5°	3814.5	1991.6	725.3	760.3	784.9	987.3	1450.5	1437.6	1327.3	1272.8	1259.8
80°	1471.3	871.9	612.4	675.9	691.6	855.0	1271.5	1259.8	1167.7	1097.6	1078.2
82.5°	555.3	456.7	506.0	585.1	580.0	705.8	1076.9	1070.3	980.8	878.4	847.2
85°	256.9	273.8	400.9	482.6	445.0	522.9	861.5	873.1	764.1	642.2	642.2
87.5°	109.0	153.1	284.1	364.6	299.7	352.9	631.9	603.3	554.0	384.1	360.7
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)