

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: P382637

Luminaire Tested: **GLEON-SA0B-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50068.8 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

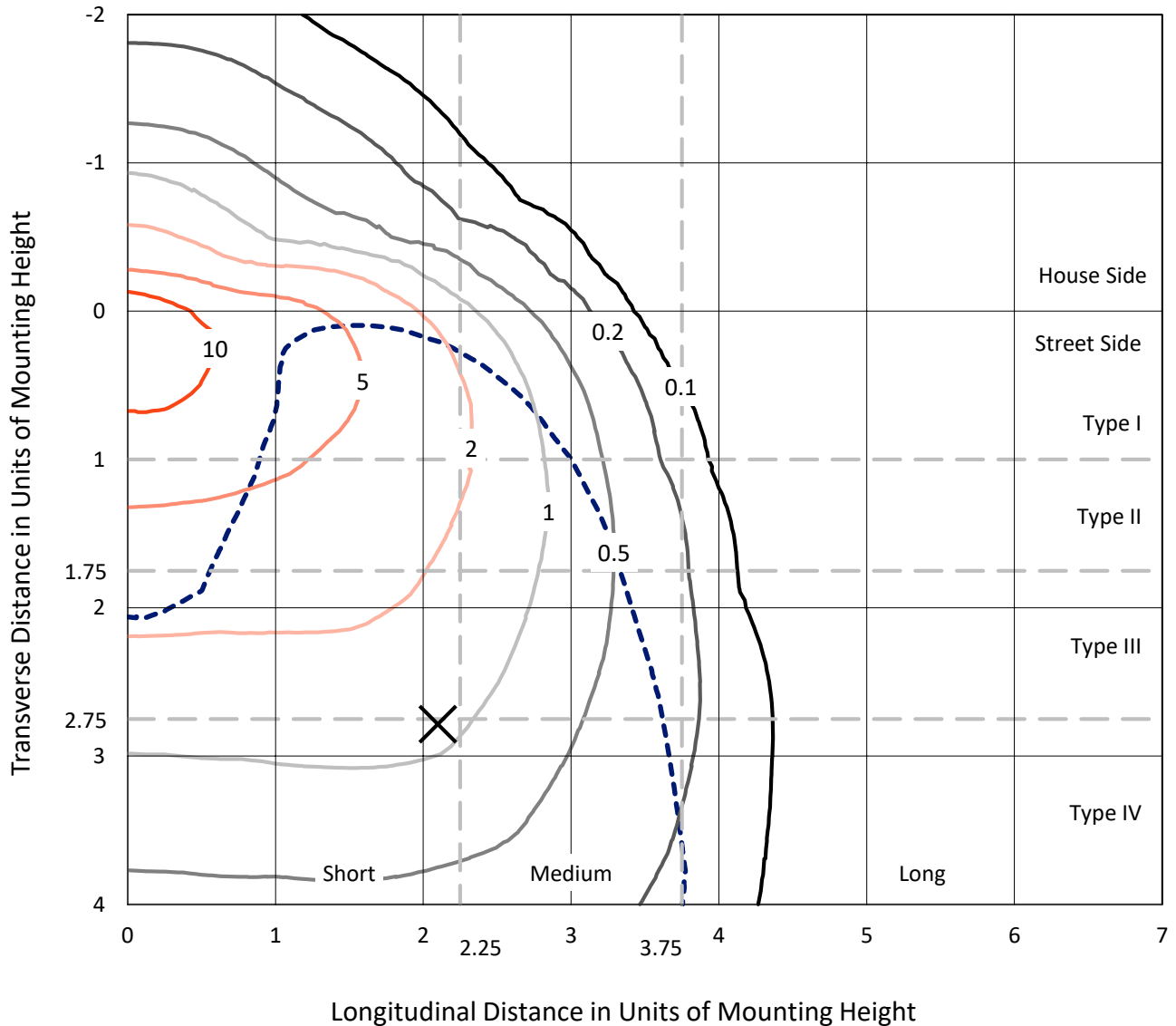
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

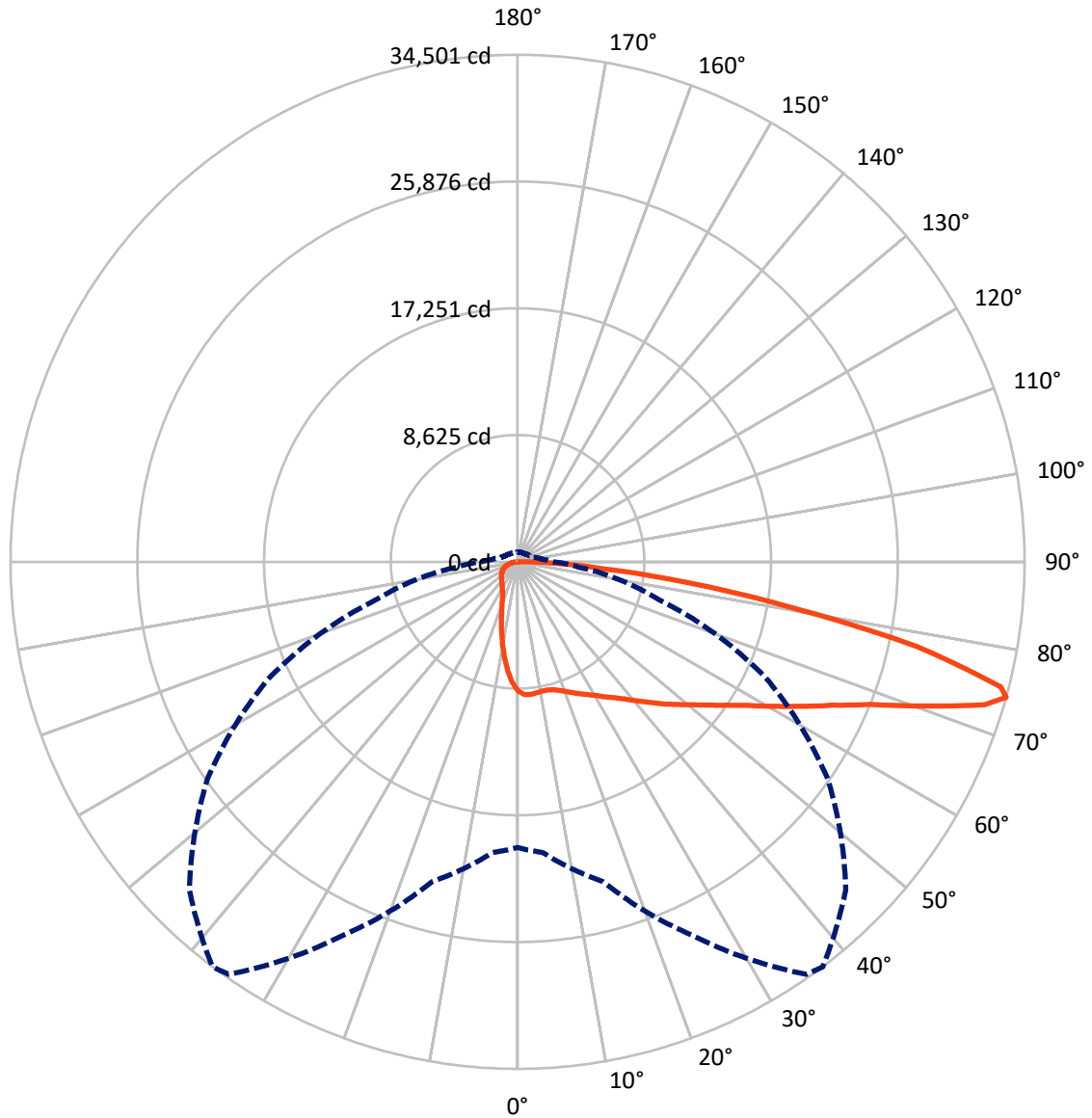
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6889.1	0.0	6889.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	43179.7	0.0	43179.7
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	50068.8	0.0	50068.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	776.9	1.6
10°-20°	1991.3	4.0
20°-30°	3068.2	6.1
30°-40°	4461.7	8.9
40°-50°	6566.8	13.1
50°-60°	9221.9	18.4
60°-70°	11672.1	23.3
70°-80°	10277.7	20.5
80°-90°	2032.1	4.1
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°	50068.8	100.0
0°-180°	50068.8	100.0

**Coefficient of Utilization**



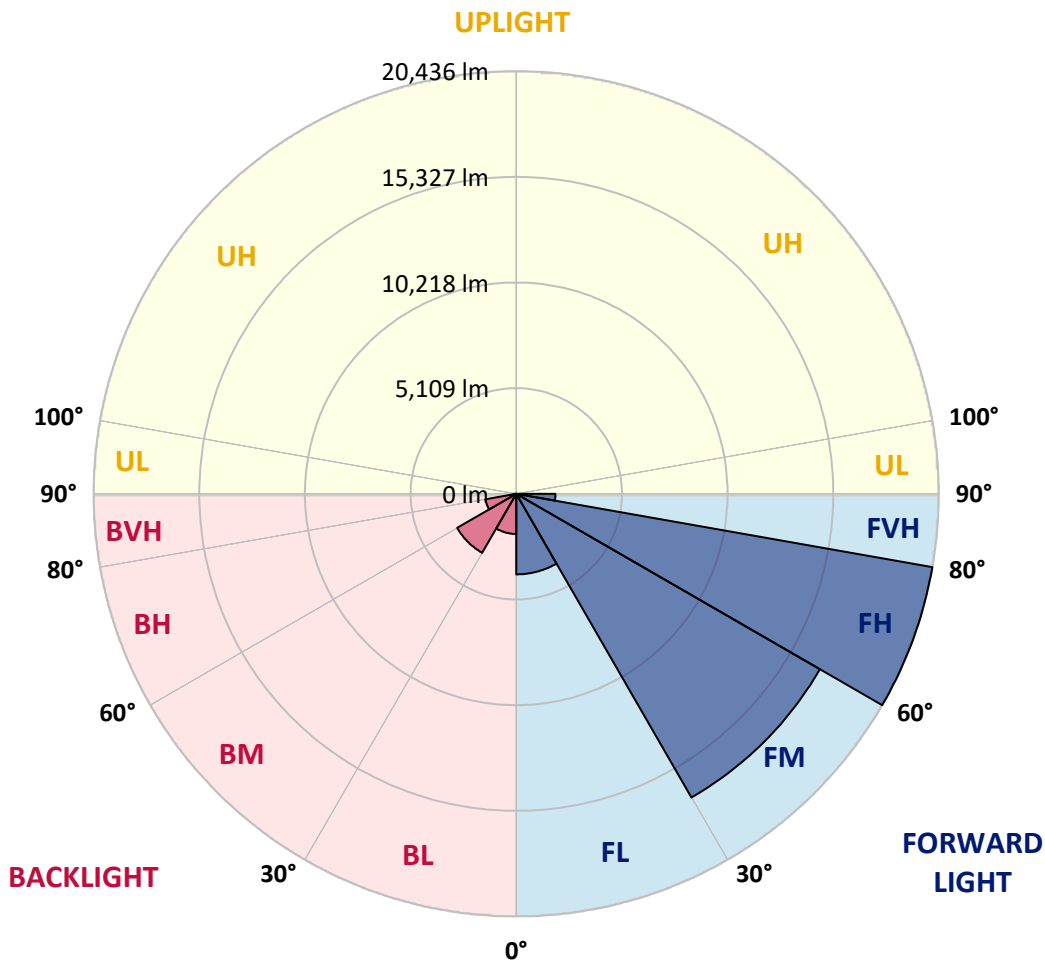
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3895.9	7.8			
FM (30°-60°)	16953.7	33.9			
FH (60°-80°)	20435.5	40.8			G5
FVH (80°-90°)	1894.5	3.8			G5
BL (0°-30°)	1940.5	3.9	B3/2500		
BM (30°-60°)	3296.7	6.6	B3/5000		
BH (60°-80°)	1514.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	137.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9
2.5°	9123.5	9125.3	9123.5	9109.4	9075.9	9047.7	9024.7	8991.2	8917.1	8860.7	8776.1
5°	9209.9	9199.4	9192.3	9165.9	9113.0	9081.2	9037.1	8973.6	8851.9	8739.0	8601.4
7.5°	9169.4	9157.0	9141.2	9109.4	9049.4	9023.0	8961.3	8878.4	8732.0	8583.8	8386.3
10°	9044.1	9040.7	9033.6	9026.5	8975.4	8954.2	8897.8	8809.6	8665.0	8485.1	8254.1
12.5°	8904.8	8913.6	8941.8	8978.9	8956.0	8945.4	8910.2	8850.2	8702.0	8508.0	8229.3
15°	8816.6	8841.3	8917.1	9014.2	9033.6	9030.0	9021.2	8982.4	8825.5	8610.3	8285.7
17.5°	8786.6	8827.3	8971.8	9132.3	9188.8	9201.1	9204.6	9137.6	8963.1	8735.5	8344.0
20°	8841.3	8892.5	9104.1	9324.6	9414.5	9421.6	9405.7	9289.3	9093.6	8843.1	8375.7
22.5°	9007.1	9053.0	9317.5	9566.2	9668.5	9679.1	9631.5	9455.1	9231.1	8970.1	8419.8
25°	9326.4	9382.8	9647.3	9896.0	9948.9	9950.7	9882.0	9663.2	9411.0	9148.2	8515.1
27.5°	9742.6	9799.0	10037.1	10280.5	10252.2	10236.4	10143.0	9924.2	9645.6	9393.4	8684.4
30°	10206.4	10268.2	10493.9	10666.8	10599.7	10567.9	10492.1	10209.9	9971.8	9728.4	8943.6
32.5°	10686.2	10742.6	10940.1	11058.3	10973.6	10959.5	10844.9	10587.4	10396.9	10239.9	9363.4
35°	11178.2	11218.8	11412.8	11479.8	11366.9	11363.4	11331.6	11095.3	10975.4	11049.5	9973.6
37.5°	11680.9	11691.5	11857.2	11860.7	11827.2	11841.4	11874.9	11726.7	11760.2	11991.3	10767.3
40°	12128.8	12157.1	12277.0	12314.0	12372.3	12421.6	12589.1	12492.1	12751.4	13160.6	11754.9
42.5°	12460.4	12515.1	12707.3	12802.5	12991.3	13068.9	13305.2	13395.2	13917.2	14530.9	12929.5
45°	12740.9	12825.5	13134.2	13329.9	13649.1	13784.9	14123.6	14425.1	15234.7	16017.8	14165.9
47.5°	13044.2	13151.8	13538.0	13911.9	14345.7	14499.3	15114.7	15566.3	16640.3	17513.4	15331.7
50°	13490.4	13573.3	13950.7	14538.0	15079.4	15277.0	16128.9	16776.1	18068.9	18938.4	16342.2
52.5°	14112.9	14081.3	14400.4	15224.1	15950.7	16194.1	17211.7	18063.6	19516.9	20227.6	17195.9
55°	14739.0	14686.1	14910.2	15941.9	16966.6	17222.4	18404.0	19356.4	20894.3	21388.1	17850.2
57.5°	15435.7	15335.2	15524.0	16751.5	18123.6	18428.7	19739.1	20730.3	22248.8	22326.4	18266.4
60°	16153.6	16017.8	16229.4	17755.0	19592.8	19952.5	21301.7	22070.7	23525.8	23077.8	18400.5
62.5°	16781.5	16686.2	17012.5	18874.9	21248.8	21643.9	22836.1	23495.8	24785.0	23389.9	17917.2
65°	17330.0	17345.8	17910.2	20134.2	23095.4	23516.9	24596.3	25252.4	25776.2	23204.8	16786.7
67.5°	17984.3	18074.2	19037.2	21792.1	25420.0	25882.0	27157.1	27167.7	26330.0	22118.3	14560.9
70°	18938.4	19123.6	20587.5	24091.9	28725.1	29360.0	30344.1	28293.0	25552.2	19173.0	11456.9
72.5°	19785.0	20130.7	22236.5	26723.3	32753.3	33234.8	32208.4	27644.0	22301.7	14368.7	7137.6
74°	19441.0	19869.6	22536.3	28019.6	34270.1	34501.2	31578.7	25749.7	18594.5	9950.7	4148.2
75°	18700.4	19165.9	22098.9	28007.3	34077.9	33949.1	30058.4	23585.7	15314.1	6786.6	2760.2
77.5°	15091.8	15583.9	18621.0	24003.7	27942.0	27820.3	23090.1	15822.0	6707.2	2225.7	1402.2
80°	8774.3	9149.9	11559.2	15243.5	18841.4	19061.9	15185.3	7829.0	2638.4	1250.4	950.6
82.5°	3897.8	4157.0	5583.8	7781.4	11370.5	11654.4	7952.4	4102.3	1629.6	760.1	571.4
85°	2557.4	2749.6	3389.8	3705.5	5414.5	5608.5	3892.5	3194.0	1075.8	418.0	419.8
87.5°	1839.5	2024.7	2518.5	2199.3	2485.0	2352.7	2118.2	2955.9	432.1	238.1	141.1
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°	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9	8821.9
2.5°	8739.0	8710.8	8647.4	8527.4	8460.4	8404.0	8310.4	8255.7	8231.1	8229.3	8239.9
5°	8522.1	8456.9	8292.8	8091.8	7931.3	7784.9	7603.2	7493.8	7416.2	7370.4	7382.8
7.5°	8269.9	8167.6	7910.1	7589.1	7331.7	7047.6	6767.2	6599.7	6469.2	6372.2	6389.9
10°	8097.1	7956.0	7580.3	7118.2	6689.6	6277.0	5890.7	5659.6	5476.2	5335.2	5345.7
12.5°	8038.9	7848.4	7328.1	6710.8	6109.4	5545.0	5040.6	4686.1	4497.4	4336.9	4349.2
15°	8047.6	7791.9	7116.5	6343.9	5587.3	4876.6	4264.6	3850.1	3594.4	3483.2	3485.0
17.5°	8054.7	7726.7	6894.2	5950.6	5070.6	4252.2	3587.3	3167.5	2926.0	2823.6	2825.4
20°	8031.8	7620.9	6619.1	5499.1	4530.9	3679.1	3035.3	2679.0	2495.6	2416.2	2416.2
22.5°	8001.8	7495.6	6308.7	5045.9	3998.3	3181.7	2640.2	2368.6	2262.8	2209.9	2208.1
25°	8016.0	7402.2	5991.2	4580.2	3507.9	2784.9	2377.4	2197.5	2127.0	2093.5	2091.7
27.5°	8091.8	7358.1	5698.5	4116.4	3079.4	2486.8	2201.1	2074.1	2028.3	2007.1	2007.1
30°	8229.3	7358.1	5393.4	3721.3	2723.1	2266.4	2065.2	1978.9	1947.1	1933.0	1933.0
32.5°	8469.2	7398.6	5098.8	3329.8	2439.2	2093.5	1952.4	1894.2	1869.5	1862.4	1862.4
35°	8881.9	7536.2	4811.4	2959.4	2209.9	1952.4	1844.8	1811.3	1793.7	1791.9	1797.2
37.5°	9462.2	7816.6	4541.5	2686.1	2047.6	1837.8	1754.8	1728.4	1717.9	1726.6	1733.7
40°	10192.3	8197.6	4296.3	2439.2	1924.2	1746.0	1671.9	1654.3	1649.0	1661.4	1671.9
42.5°	11074.1	8712.6	4095.3	2261.1	1828.9	1668.4	1601.4	1580.3	1575.0	1589.0	1603.2
45°	12028.3	9266.4	3954.1	2128.8	1754.8	1610.3	1539.7	1516.7	1506.2	1513.2	1529.1
47.5°	12896.1	9790.2	3897.8	2035.2	1684.3	1560.9	1485.0	1456.8	1439.1	1435.6	1448.0
50°	13628.0	10180.0	3924.1	1978.9	1627.9	1506.2	1432.1	1400.4	1373.9	1358.0	1366.9
52.5°	14160.5	10425.1	3948.9	1954.2	1583.8	1446.2	1373.9	1343.9	1308.6	1282.2	1282.2
55°	14546.9	10481.6	3894.2	1934.7	1550.3	1380.9	1308.6	1280.4	1245.2	1215.2	1211.7
57.5°	14698.5	10322.9	3691.4	1906.5	1527.4	1319.3	1239.9	1218.7	1188.7	1153.4	1151.7
60°	14493.9	9832.5	3299.8	1846.6	1497.4	1268.1	1171.0	1157.0	1142.8	1109.4	1107.6
62.5°	13672.0	8756.6	2793.7	1724.9	1437.4	1213.4	1107.6	1114.7	1116.4	1093.5	1089.9
65°	12181.8	7278.7	2299.8	1566.1	1347.5	1148.1	1042.3	1075.8	1095.2	1091.7	1086.5
67.5°	10015.9	5664.9	1948.9	1398.6	1229.3	1058.2	971.8	1010.5	1026.5	1038.8	1035.3
70°	7433.9	3994.8	1612.0	1222.2	1086.5	952.4	880.0	899.5	888.9	903.0	908.3
72.5°	4144.6	2396.9	1313.9	1045.8	938.3	828.9	777.7	774.3	751.3	751.3	751.3
74°	2486.8	1758.4	1155.2	936.5	848.4	747.8	703.7	687.9	666.7	668.5	666.7
75°	2000.0	1511.4	1060.0	864.2	784.8	700.2	656.1	634.9	619.0	619.0	617.2
77.5°	1262.8	1148.1	853.6	687.9	627.9	576.7	546.7	518.5	518.5	516.7	515.0
80°	954.2	913.6	664.9	520.3	481.5	442.7	423.3	410.9	410.9	416.2	414.4
82.5°	654.3	687.9	467.4	363.3	343.9	315.7	312.2	313.9	308.6	301.6	299.9
85°	478.0	516.7	315.7	229.3	209.9	192.3	206.3	213.4	204.6	188.7	181.7
87.5°	183.4	338.6	169.4	95.2	88.2	75.8	88.2	91.8	98.7	77.6	79.4
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)