

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: P383106

Luminaire Tested: **GLEON-SA4C-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383106  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27268.2 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

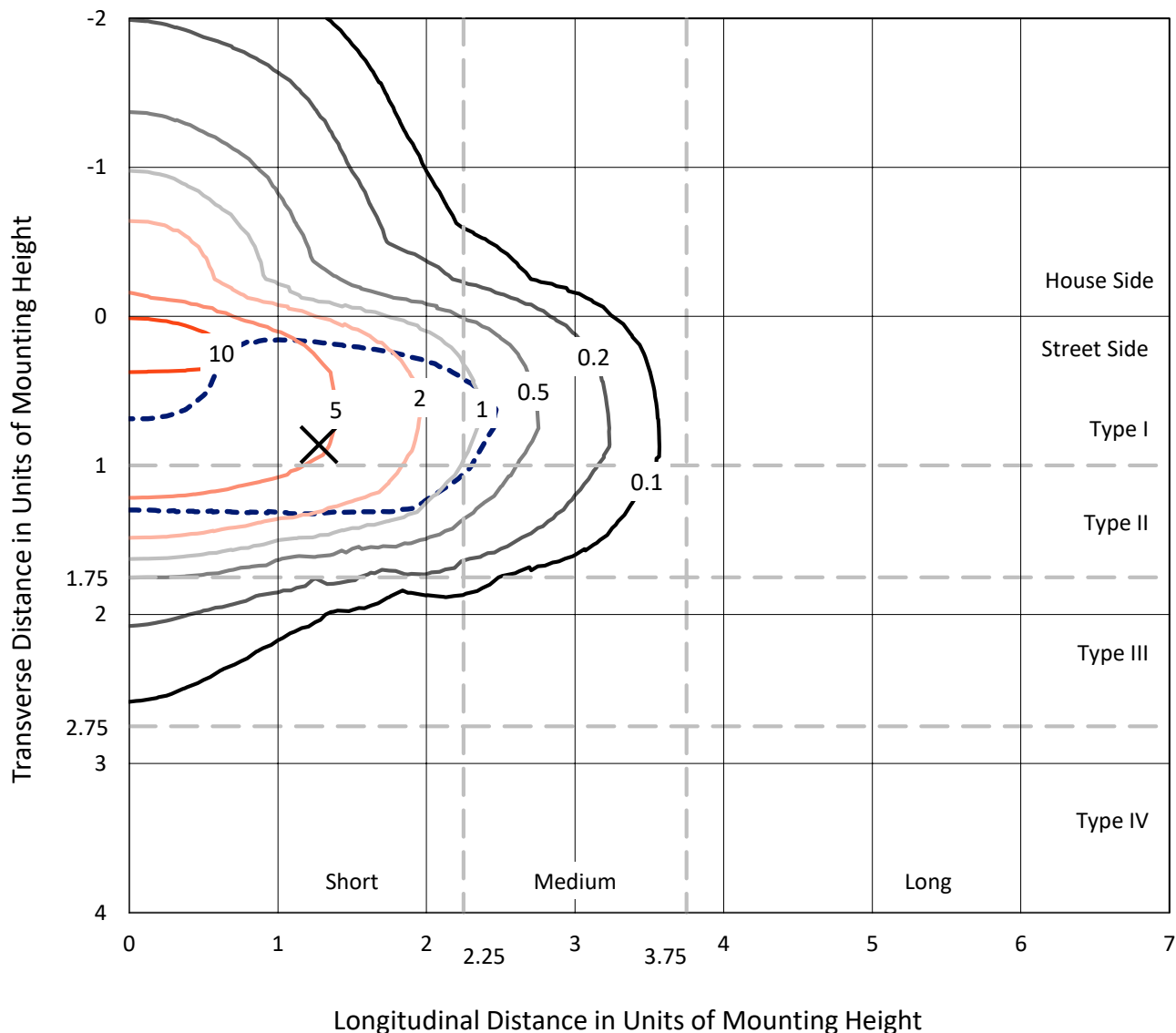
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

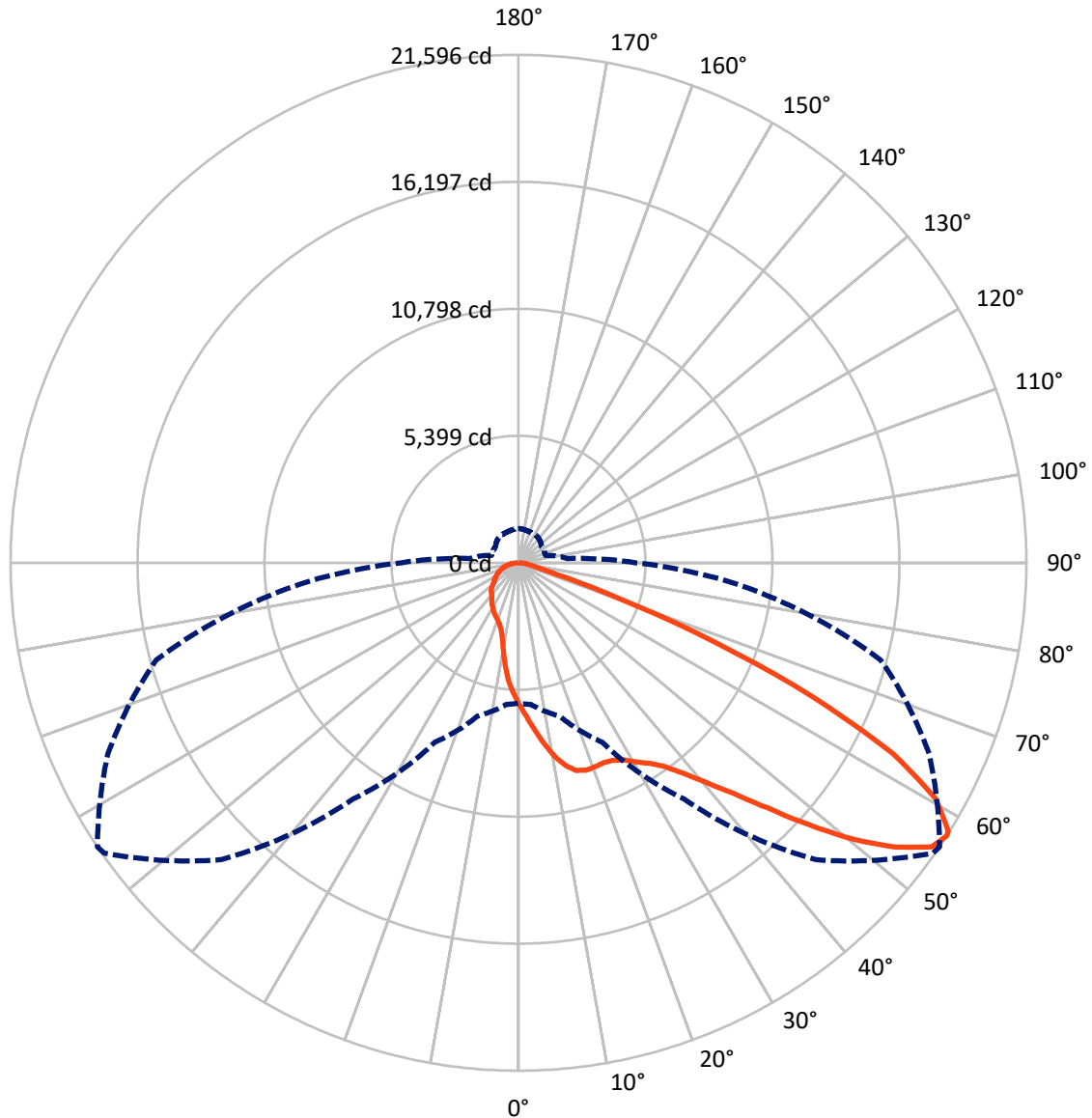
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4700.5	0.0	4700.5
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	22567.8	0.0	22567.8
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	27268.2	0.0	27268.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.8	2.1
10°-20°	1633.4	6.0
20°-30°	2660.5	9.8
30°-40°	3977.2	14.6
40°-50°	6032.6	22.1
50°-60°	6761.5	24.8
60°-70°	3993.6	14.6
70°-80°	1308.4	4.8
80°-90°	323.3	1.2
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°	27268.2	100.0
0°-180°	27268.2	100.0

**Coefficient of Utilization**



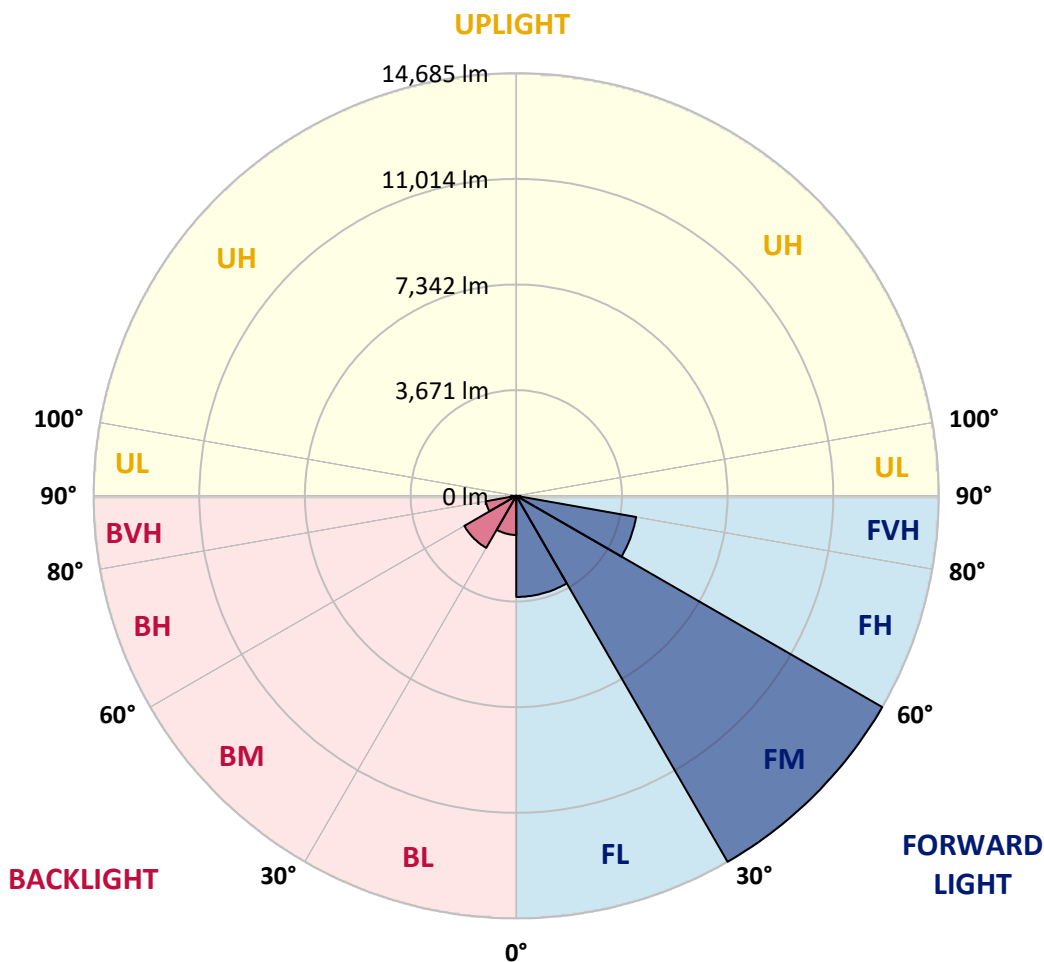
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3512.6	12.9			
FM (30°-60°)	14684.9	53.9			
FH (60°-80°)	4228.0	15.5			G2/5000
FVH (80°-90°)	142.3	0.5			G2/225
BL (0°-30°)	1359.2	5.0	B3/2500		
BM (30°-60°)	2086.4	7.7	B2/2500		
BH (60°-80°)	1074.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	180.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2
2.5°	6945.0	7008.7	6980.6	6883.1	6808.1	6702.2	6584.2	6548.5	6424.0	6284.3	6116.5
5°	8044.2	8012.3	7966.4	7814.6	7654.3	7467.8	7171.7	7124.8	6847.5	6531.6	6198.1
7.5°	8670.2	8667.4	8640.2	8551.1	8405.0	8161.3	7804.3	7749.0	7330.1	6822.2	6304.9
10°	8579.3	8572.8	8617.7	8710.4	8754.5	8703.9	8403.1	8347.8	7833.3	7143.6	6428.6
12.5°	8062.9	8066.6	8138.8	8333.7	8598.9	8917.5	8868.8	8841.7	8355.3	7507.2	6578.5
15°	7660.9	7669.3	7726.5	7896.1	8209.1	8787.3	9151.8	9161.2	8860.4	7908.3	6753.8
17.5°	7484.7	7502.5	7528.8	7647.8	7934.5	8527.8	9219.3	9269.9	9302.7	8324.4	6922.4
20°	7541.0	7557.8	7565.3	7641.2	7876.4	8370.3	9172.5	9263.4	9642.0	8716.1	7091.1
22.5°	7793.0	7803.3	7808.0	7827.7	8010.5	8415.2	9141.6	9237.1	9887.4	9067.5	7218.6
25°	8210.9	8203.5	8173.5	8148.2	8270.9	8593.3	9212.7	9303.6	10087.1	9386.1	7301.9
27.5°	8711.4	8702.1	8643.9	8574.6	8644.9	8870.7	9417.9	9490.1	10266.0	9684.1	7344.1
30°	9312.1	9287.7	9178.1	9095.6	9122.8	9286.8	9756.3	9821.9	10542.5	10022.4	7385.4
32.5°	10006.5	9980.2	9821.9	9685.0	9685.0	9821.9	10104.9	10159.3	10776.8	10404.7	7451.9
35°	10876.1	10843.3	10637.2	10407.5	10342.9	10412.3	10580.0	10618.4	11198.5	10886.4	7572.8
37.5°	11901.4	11857.3	11590.2	11282.8	11141.3	11137.6	11258.5	11337.2	11872.3	11519.0	7778.0
40°	12929.3	12898.4	12665.0	12423.3	12145.9	12056.9	12243.4	12267.7	12753.2	12304.3	8040.5
42.5°	13724.0	13718.4	13675.3	13707.2	13423.2	13243.3	13389.5	13409.2	13829.0	13154.3	8319.7
45°	14143.9	14153.2	14362.2	14825.1	14930.1	14798.8	14871.0	14876.6	15058.5	14011.7	8575.5
47.5°	13807.4	13856.1	14384.7	15420.2	16279.5	16715.3	16595.3	16664.6	16250.5	14748.3	8776.0
50°	12496.4	12556.3	13456.0	15155.0	16909.3	18569.8	18507.1	18491.1	17211.9	15288.1	8884.7
52.5°	10872.4	10919.2	11661.4	13776.5	16447.2	19595.0	20171.4	20088.9	18066.6	15691.9	8905.4
55°	8399.3	8472.4	9183.7	11025.1	14578.6	19203.3	21395.2	21321.2	18845.3	15903.8	8881.0
57°	5971.3	6048.2	6754.7	8414.3	12264.0	17847.3	21517.1	21595.8	19266.1	15939.3	8908.2
57.5°	5328.5	5407.2	6107.1	7719.0	11542.4	17357.2	21412.1	21543.2	19342.0	15933.7	8923.2
60°	2683.0	2712.9	3159.0	4308.9	7296.3	14032.4	20043.0	20381.2	19410.4	15658.2	8987.9
62.5°	1668.0	1646.5	1632.4	1984.8	3549.8	9305.5	17217.6	17868.9	18101.3	14991.0	8831.4
65°	1466.5	1426.3	1271.7	1243.5	1567.8	4519.7	12965.9	13776.5	15304.0	13939.6	8458.4
67.5°	1377.6	1338.2	1163.9	1059.0	1059.9	1791.7	8049.8	8962.5	11921.9	12161.8	7578.4
70°	1285.7	1250.1	1087.0	963.3	902.5	992.4	3703.5	4396.0	7771.4	9559.4	6334.0
72.5°	1167.6	1143.3	988.7	861.2	796.6	743.1	1417.8	1674.6	4499.1	6420.1	4398.8
75°	1044.0	1021.4	889.3	767.5	688.8	584.7	798.4	860.3	2285.6	3284.5	2165.7
77.5°	908.1	894.9	790.9	678.4	615.7	484.5	565.1	595.1	980.2	1408.5	1086.1
80°	722.5	747.8	691.6	604.5	546.4	388.0	400.2	419.8	570.7	687.9	616.6
82.5°	470.4	514.5	541.7	491.0	449.8	305.5	287.7	296.1	372.1	419.8	268.0
85°	195.8	220.2	356.1	321.4	298.9	223.0	193.0	196.8	230.6	238.9	109.6
87.5°	87.2	92.8	156.5	147.1	126.5	76.9	82.4	90.0	122.8	116.2	42.2
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°	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2	6048.2
2.5°	6053.8	5975.0	5840.1	5691.1	5569.3	5471.8	5373.4	5305.9	5227.2	5185.1	5163.5
5°	6058.4	5903.8	5619.8	5328.5	5067.9	4829.9	4603.1	4428.8	4265.7	4177.6	4153.3
7.5°	6078.1	5845.7	5386.5	4906.7	4443.8	4021.1	3695.1	3490.8	3343.6	3278.0	3259.3
10°	6094.0	5777.3	5097.9	4387.6	3757.9	3329.5	3076.5	2962.2	2911.6	2903.2	2894.8
12.5°	6131.5	5707.0	4794.3	3845.9	3224.6	2928.5	2840.4	2832.9	2846.9	2867.6	2867.6
15°	6190.6	5637.6	4447.6	3381.1	2885.4	2781.3	2799.1	2840.4	2878.9	2910.7	2915.4
17.5°	6233.6	5552.4	4074.6	3009.1	2704.5	2732.6	2796.3	2854.4	2893.8	2924.7	2927.6
20°	6264.6	5420.3	3676.3	2725.1	2600.5	2687.6	2767.3	2818.9	2846.0	2876.9	2881.6
22.5°	6248.6	5243.1	3323.0	2521.8	2516.1	2622.0	2697.9	2759.8	2739.2	2709.2	2728.9
25°	6171.8	4999.5	2959.4	2370.0	2427.1	2534.0	2627.7	2586.4	2517.0	2504.0	2511.5
27.5°	6035.0	4688.4	2623.0	2229.4	2324.0	2452.4	2446.8	2405.5	2381.2	2364.4	2374.6
30°	5887.8	4351.0	2328.7	2106.6	2209.7	2315.6	2294.0	2293.1	2268.8	2241.6	2254.7
32.5°	5742.6	4011.8	2095.4	2005.4	2123.5	2137.5	2184.4	2198.5	2150.7	2093.5	2089.7
35°	5616.1	3691.3	1918.2	1913.6	2019.5	2021.4	2089.7	2070.1	1951.0	1892.1	1892.1
37.5°	5521.5	3371.7	1783.4	1831.1	1882.7	1931.4	1966.0	1884.5	1864.9	1832.1	1831.1
40°	5480.2	3090.6	1699.0	1768.4	1786.1	1848.0	1758.9	1790.8	1800.2	1783.4	1783.4
42.5°	5437.2	2846.0	1625.9	1720.6	1717.8	1709.3	1664.3	1705.6	1743.0	1744.0	1741.2
45°	5394.0	2635.2	1561.3	1618.4	1657.8	1566.9	1575.2	1619.3	1671.8	1690.6	1690.6
47.5°	5346.2	2468.3	1502.2	1510.6	1571.5	1510.6	1504.1	1537.8	1599.7	1629.6	1636.2
50°	5241.3	2318.4	1434.7	1416.0	1432.8	1453.5	1459.1	1475.0	1543.4	1591.2	1602.4
52.5°	5096.0	2184.4	1348.5	1328.9	1328.9	1406.6	1432.8	1437.6	1495.6	1552.8	1564.1
55°	4975.1	2099.1	1259.5	1255.7	1252.0	1357.0	1401.9	1409.4	1449.7	1494.7	1500.4
57°	4983.6	2092.5	1191.1	1194.8	1193.9	1306.3	1372.9	1388.8	1409.4	1447.8	1454.4
57.5°	4988.3	2097.3	1176.1	1177.9	1177.0	1292.2	1364.4	1382.2	1398.2	1438.5	1445.0
60°	5058.5	2109.4	1115.2	1094.6	1099.2	1217.3	1316.6	1339.1	1349.4	1402.8	1411.3
62.5°	4954.5	2055.1	1066.4	1016.8	1016.8	1138.6	1250.1	1285.7	1301.7	1373.8	1387.8
65°	4652.8	1902.3	1009.2	928.7	938.1	1059.9	1170.5	1228.5	1252.9	1342.9	1357.9
67.5°	4187.0	1725.2	948.3	849.9	859.4	977.4	1088.0	1150.7	1189.2	1309.1	1321.3
70°	3580.7	1508.7	865.9	766.6	777.8	887.5	990.5	1061.8	1118.9	1277.2	1281.1
72.5°	2639.8	1237.0	750.6	674.7	686.9	782.5	892.1	974.6	1051.4	1197.6	1195.7
75°	1569.7	967.1	623.2	581.9	590.4	679.4	803.1	903.4	1018.6	1166.7	1184.6
77.5°	952.1	728.1	507.9	487.3	497.6	588.6	739.4	846.2	1004.6	1100.2	1094.6
80°	575.4	520.1	405.8	392.6	403.0	503.2	684.1	803.1	878.1	939.9	939.9
82.5°	300.8	317.7	298.0	287.7	301.7	408.6	622.3	701.0	775.9	666.2	622.3
85°	122.8	165.9	180.9	179.9	188.4	283.0	536.9	599.7	500.4	475.1	486.4
87.5°	41.3	70.2	88.1	75.9	79.6	178.0	372.1	289.5	343.9	239.9	227.8
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)