

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: P455443

Luminaire Tested: **GALN-SA6C-827-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-827-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30947 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

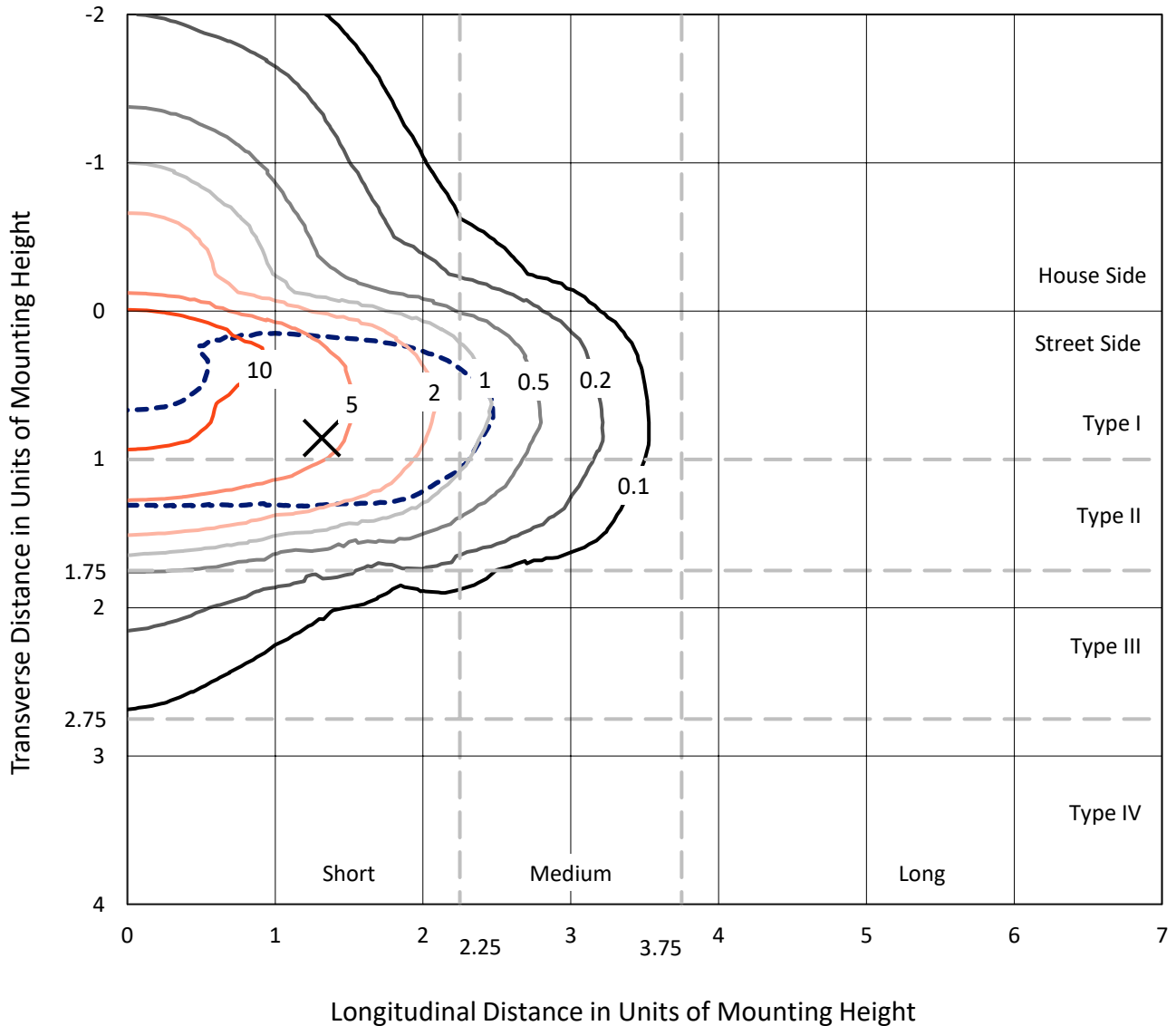
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

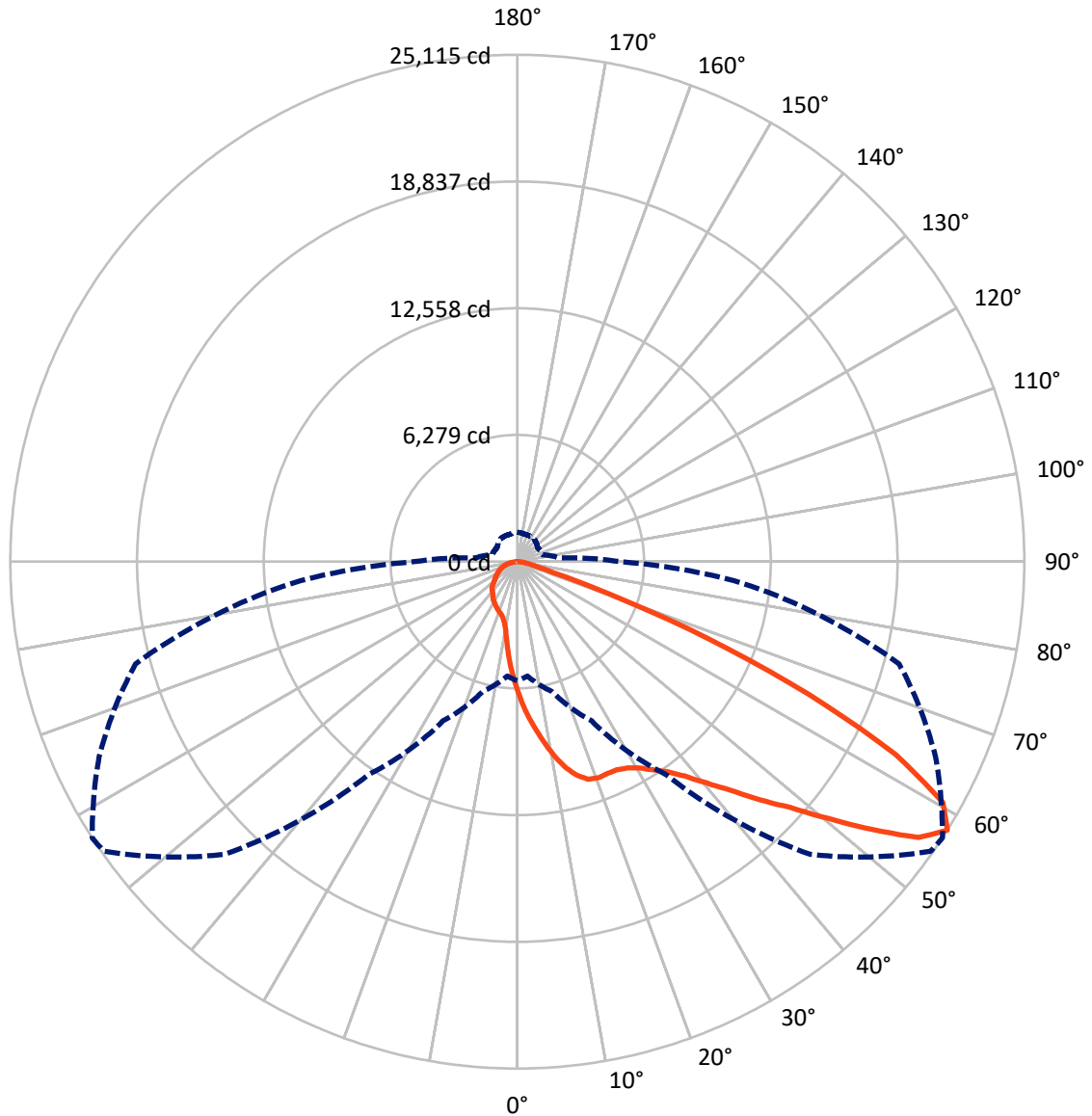
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4706.2	0.0	4706.2
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	26240.8	0.0	26240.8
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	30947.0	0.0	30947.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.9	2.0
10°-20°	1841.5	6.0
20°-30°	3057.9	9.9
30°-40°	4606.1	14.9
40°-50°	6915.6	22.3
50°-60°	7751.5	25.0
60°-70°	4536.5	14.7
70°-80°	1341.9	4.3
80°-90°	271.2	0.9
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°	30947.0	100.0
0°-180°	30947.0	100.0

**Coefficient of Utilization**



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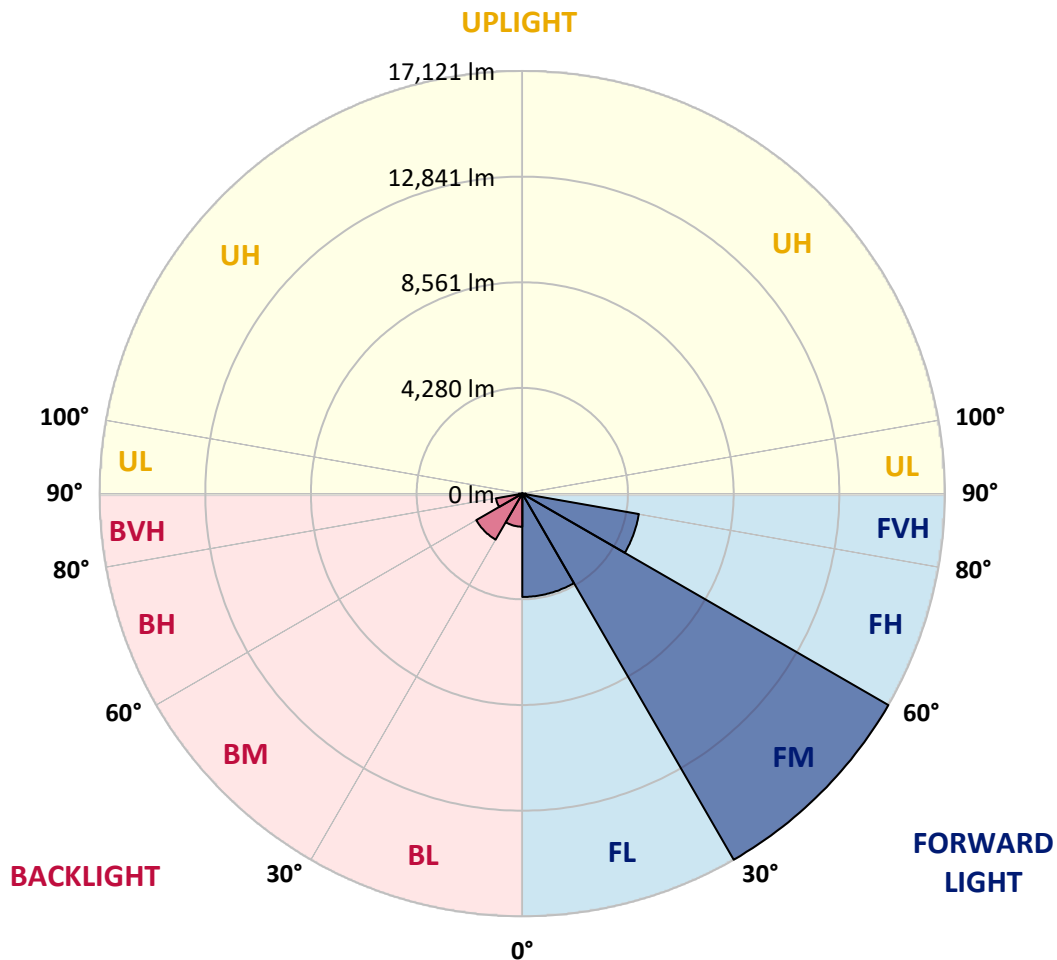
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4183.3	13.5			
FM	(30°-60°)	17121.2	55.3			
FH	(60°-80°)	4795.6	15.5			G2/5000
FVH	(80°-90°)	140.7	0.5			G2/225
BL	(0°-30°)	1340.9	4.3	B3/2500		
BM	(30°-60°)	2151.8	7.0	B2/2500		
BH	(60°-80°)	1082.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	130.5	0.4			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°	57°	65°	75°	85°
0°	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6
2.5°	8078.7	7990.6	7921.2	7860.2	7780.6	7565.4	7350.3	7346.9	7175.8	6911.6	6640.5
5°	9395.0	9276.4	9291.6	9101.9	8912.2	8600.5	8144.8	8121.1	7756.9	7262.2	6759.1
7.5°	10252.1	10253.8	10206.4	10098.0	9893.0	9539.0	9022.3	8905.4	8398.9	7648.5	6894.6
10°	10208.1	10253.8	10333.5	10426.6	10489.3	10314.8	9843.9	9701.6	9042.6	8116.0	7045.4
12.5°	9622.0	9693.1	9806.6	10040.4	10418.2	10706.1	10545.2	10430.0	9788.0	8581.9	7211.4
15°	9256.1	9298.4	9361.1	9518.6	9925.2	10614.7	11031.4	10970.4	10491.0	9108.7	7397.7
17.5°	9144.3	9186.6	9206.9	9303.5	9593.2	10299.6	11222.8	11331.2	11114.4	9593.2	7585.8
20°	9256.1	9276.4	9276.4	9334.0	9561.0	10114.9	11214.3	11432.9	11626.0	10174.2	7762.0
22.5°	9549.1	9557.6	9545.7	9566.1	9735.5	10165.8	11134.7	11405.8	12039.3	10667.2	7899.2
25°	10025.2	10038.7	9960.8	9913.3	10037.0	10389.4	11178.8	11427.8	12362.9	11138.1	7990.6
27.5°	10565.5	10582.5	10487.6	10377.5	10435.1	10665.5	11351.6	11575.2	12605.1	11602.3	8048.2
30°	11227.9	11234.7	11075.4	10943.3	10906.0	11077.1	11646.3	11854.7	12906.7	12149.4	8134.6
32.5°	11905.5	11956.3	11751.3	11565.0	11502.3	11554.8	12081.7	12283.3	13265.8	12737.3	8273.5
35°	12827.0	12835.5	12589.9	12362.9	12156.2	12224.0	12639.0	12784.7	13762.1	13416.6	8470.1
37.5°	13977.3	14055.2	13716.4	13292.9	13038.8	12940.5	13313.2	13472.5	14458.4	14250.0	8766.5
40°	15254.6	15283.4	14993.7	14729.4	14265.3	13980.7	14238.2	14410.9	15317.2	15244.4	9110.4
42.5°	16057.5	16120.2	16142.2	16115.1	15766.2	15288.4	15386.7	15468.0	16333.6	16177.8	9462.7
45°	16328.6	16421.7	16736.8	17404.3	17441.5	16970.6	16741.9	16819.8	17441.5	17119.7	9799.8
47.5°	15879.7	16038.9	16619.9	17988.7	19013.6	19049.1	18359.7	18188.6	18451.2	17900.6	10043.8
50°	14719.3	14753.1	15642.5	17624.5	19750.5	21036.2	20323.0	20004.6	19410.0	18478.3	10211.5
52.5°	12923.6	12962.6	13707.9	15932.2	19296.5	22425.3	22620.1	22050.9	20384.0	18927.2	10321.6
55°	9593.2	9818.5	10638.4	12788.1	17145.1	22294.9	24446.3	24122.7	21561.4	19282.9	10494.4
57.5°	5898.5	5691.9	6664.2	8700.4	12894.8	20502.6	25010.4	25115.4	22857.3	19581.1	10784.1
60°	2713.8	2754.5	3155.9	4487.4	7860.2	16038.9	23556.9	24221.0	23573.8	19570.9	10856.9
62.5°	1870.2	1832.9	1731.3	1970.1	3584.5	10143.7	19897.8	21022.7	22137.3	18962.7	10567.2
65°	1672.0	1634.7	1438.2	1372.1	1646.6	4421.4	14465.2	15884.7	18639.2	17428.0	9845.6
67.5°	1561.9	1511.1	1307.8	1179.0	1175.6	1760.1	8529.3	10238.6	13824.8	14734.5	8531.0
70°	1446.7	1406.0	1204.4	1062.1	1001.2	1106.2	3748.8	4907.5	8976.6	10618.1	6645.6
72.5°	1331.5	1284.1	1102.8	950.3	870.7	828.4	1436.5	1868.5	5071.9	6366.1	4074.1
75°	1163.8	1140.1	985.9	860.6	774.2	669.1	911.4	1040.1	2425.8	2923.9	2044.7
77.5°	1018.1	992.7	875.8	752.1	689.5	543.8	647.1	706.4	1023.2	1185.8	923.2
80°	745.4	770.8	738.6	664.1	614.9	426.9	435.4	484.5	608.1	672.5	564.1
82.5°	472.6	520.1	569.2	511.6	465.9	337.1	301.5	320.2	415.0	440.4	250.7
85°	198.2	201.6	330.3	311.7	266.0	199.9	181.3	191.4	221.9	232.1	116.9
87.5°	76.2	74.5	116.9	108.4	83.0	57.6	57.6	64.4	88.1	81.3	37.3
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°	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6	6501.6
2.5°	6523.6	6403.4	6164.5	5868.1	5651.2	5407.3	5192.1	5038.0	4980.4	4953.3	4902.5
5°	6518.6	6281.4	5786.7	5268.4	4851.6	4424.8	4063.9	3830.2	3809.8	3654.0	3638.7
7.5°	6520.2	6157.7	5370.0	4607.7	3972.5	3535.4	3237.3	3159.3	3066.2	3042.4	3054.3
10°	6525.3	6000.2	4922.8	3953.8	3338.9	3052.6	2940.8	2910.3	2913.7	2923.9	2925.6
12.5°	6532.1	5847.7	4458.6	3457.5	2983.2	2864.6	2852.7	2879.8	2908.6	2930.6	2935.7
15°	6540.6	5673.2	4006.3	3057.7	2805.3	2795.1	2834.1	2879.8	2920.5	2952.7	2957.7
17.5°	6530.4	5470.0	3626.9	2812.1	2707.0	2756.2	2820.5	2878.1	2915.4	2945.9	2949.3
20°	6506.7	5243.0	3261.0	2639.3	2646.0	2725.7	2795.1	2849.3	2890.0	2905.2	2917.1
22.5°	6415.2	4971.9	2942.5	2505.4	2573.2	2683.3	2766.3	2798.5	2752.8	2720.6	2729.1
25°	6259.4	4619.6	2646.0	2397.0	2507.1	2624.0	2708.7	2630.8	2593.5	2580.0	2586.8
27.5°	6064.6	4233.3	2422.4	2283.5	2422.4	2558.0	2534.2	2520.7	2503.7	2481.7	2486.8
30°	5854.5	3855.6	2232.7	2195.4	2331.0	2408.9	2419.0	2441.1	2422.4	2388.6	2402.1
32.5°	5659.7	3499.8	2088.7	2120.9	2266.6	2254.7	2331.0	2356.4	2270.0	2156.5	2161.6
35°	5493.7	3169.5	1980.3	2048.1	2156.5	2161.6	2237.8	2149.7	2056.5	2002.3	2005.7
37.5°	5368.3	2912.0	1909.1	1985.4	2015.9	2080.2	2039.6	1993.8	1982.0	1944.7	1946.4
40°	5293.8	2686.7	1863.4	1936.3	1931.2	1975.2	1844.8	1890.5	1907.5	1895.6	1897.3
42.5°	5219.2	2527.5	1816.0	1868.5	1866.8	1780.4	1751.6	1790.6	1834.6	1839.7	1836.3
45°	5160.0	2403.8	1766.9	1765.2	1799.0	1663.5	1655.0	1678.8	1741.4	1771.9	1770.2
47.5°	5093.9	2300.5	1692.3	1644.9	1655.0	1590.7	1577.1	1587.3	1663.5	1712.6	1726.2
50°	5010.9	2197.1	1599.1	1534.8	1492.4	1522.9	1526.3	1528.0	1604.2	1660.1	1672.0
52.5°	4944.8	2119.2	1492.4	1445.0	1394.2	1461.9	1487.3	1490.7	1536.5	1582.2	1590.7
55°	4983.8	2075.2	1387.4	1353.5	1307.8	1399.3	1448.4	1455.2	1465.3	1499.2	1504.3
57.5°	5100.7	2085.3	1302.7	1258.6	1224.8	1324.7	1407.7	1412.8	1406.0	1446.7	1453.5
60°	5136.2	2080.2	1240.0	1153.6	1133.3	1245.1	1348.4	1358.6	1356.9	1416.2	1428.1
62.5°	4987.2	2015.9	1177.3	1065.5	1052.0	1163.8	1265.4	1306.1	1314.6	1399.3	1414.5
65°	4636.5	1883.7	1094.3	972.4	972.4	1077.4	1185.8	1241.7	1265.4	1378.9	1395.9
67.5°	4174.0	1727.9	1009.6	892.7	889.4	994.4	1101.1	1158.7	1196.0	1350.1	1360.3
70°	3464.3	1517.8	904.6	806.3	806.3	901.2	997.8	1067.2	1121.4	1295.9	1295.9
72.5°	2373.3	1262.0	777.6	708.1	709.8	797.9	896.1	974.1	1038.4	1187.5	1190.9
75°	1500.9	985.9	638.6	603.1	609.8	692.9	794.5	875.8	1004.5	1173.9	1179.0
77.5°	797.9	692.9	508.2	499.7	508.2	584.4	697.9	809.7	1007.9	1018.1	1001.2
80°	516.7	491.3	401.5	384.5	387.9	470.9	621.7	769.1	809.7	819.9	782.6
82.5°	281.2	311.7	284.6	267.7	267.7	367.6	530.2	611.5	581.0	482.8	460.8
85°	120.3	145.7	147.4	128.7	123.7	227.0	355.7	333.7	310.0	296.5	293.1
87.5°	33.9	47.4	47.4	35.6	27.1	62.7	71.1	20.3	0.0	1.7	3.4
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)