

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: P455227

Luminaire Tested: **GALN-SA6B-827-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25279 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

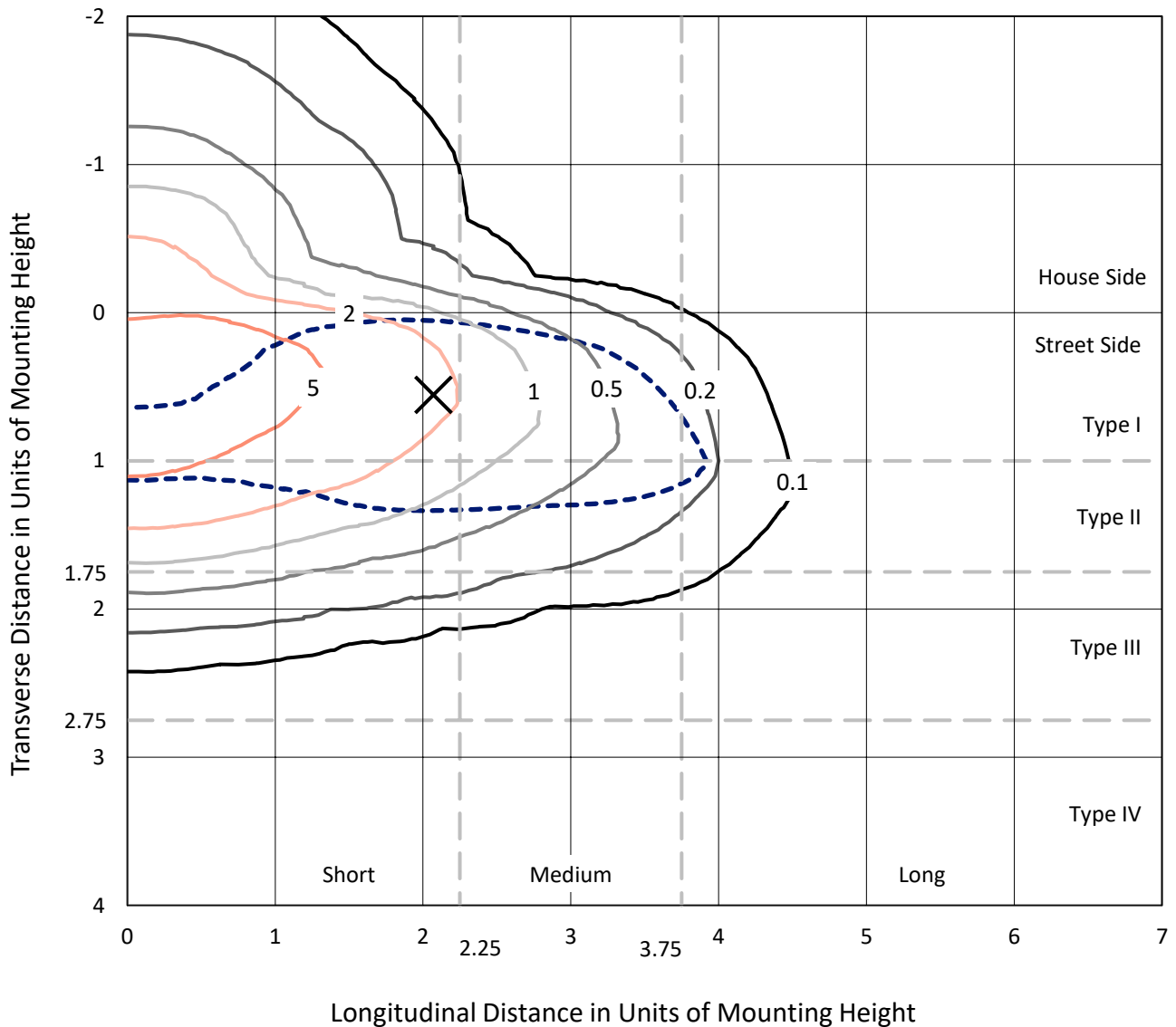
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455227  
 CATALOG NUMBER: GALN-SA6B-827-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

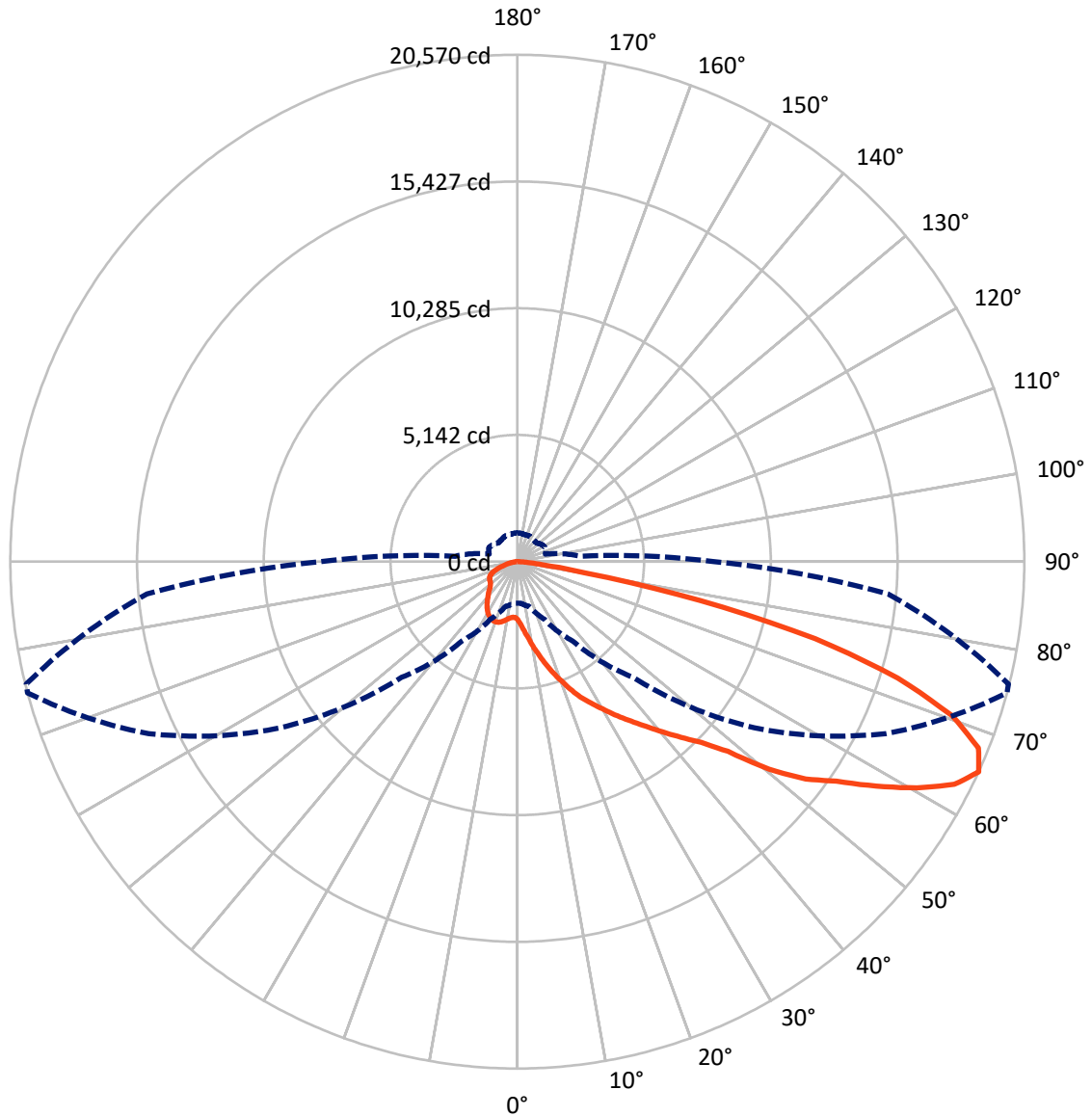
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P455227  
CATALOG NUMBER: GALN-SA6B-827-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455227

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4249.7	0.0	4249.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	21029.3	0.0	21029.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	25279.0	0.0	25279.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.4	1.1
10°-20°	1117.7	4.4
20°-30°	2159.1	8.5
30°-40°	3507.0	13.9
40°-50°	4824.2	19.1
50°-60°	5695.7	22.5
60°-70°	4990.4	19.7
70°-80°	2382.5	9.4
80°-90°	317.0	1.3
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°	25279.0	100.0
0°-180°	25279.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455227

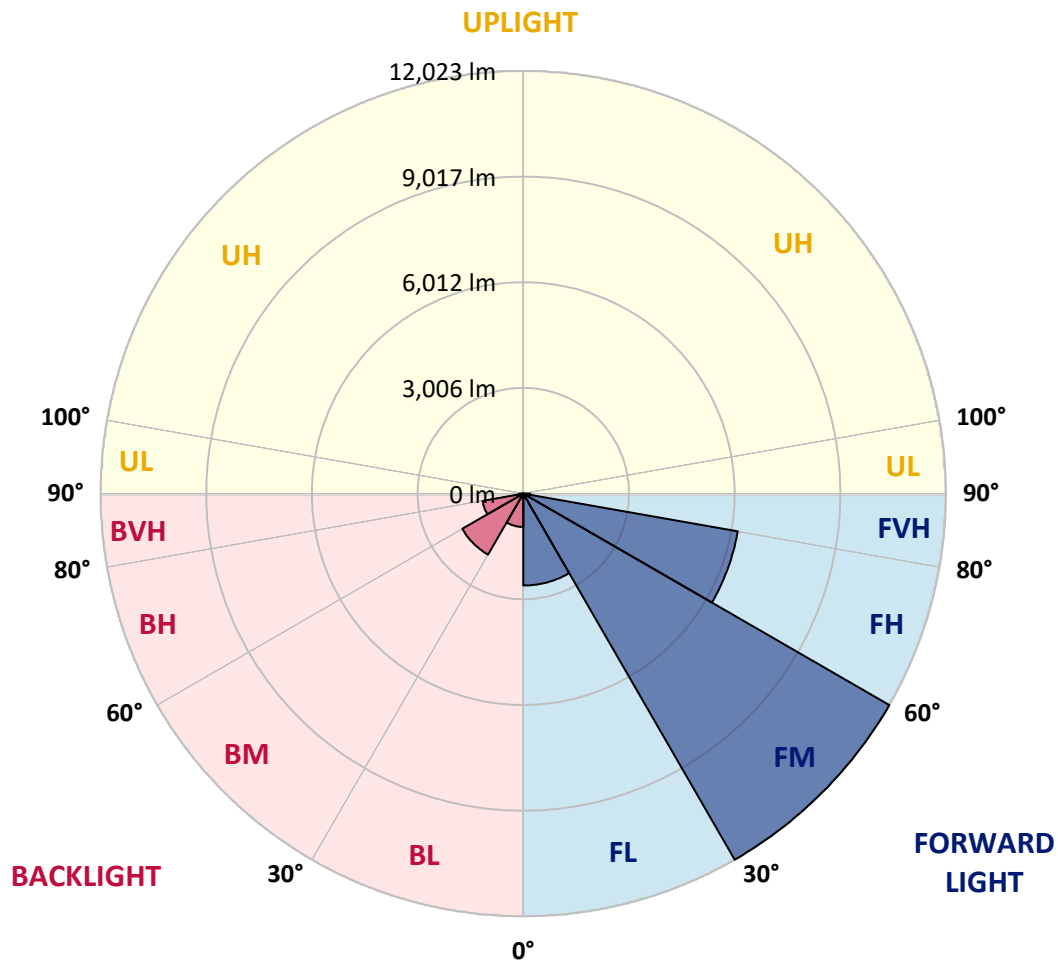
CATALOG NUMBER: GALN-SA6B-827-U-T2R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2613.4	10.3			
FM	(30°-60°)	12023.2	47.6			
FH	(60°-80°)	6194.5	24.5			G3/7500
FVH	(80°-90°)	198.1	0.8			G2/225
BL	(0°-30°)	948.7	3.8	B2/1000		
BM	(30°-60°)	2003.7	7.9	B2/2500		
BH	(60°-80°)	1178.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	118.9	0.5			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





REPORT NUMBER: P455227  
 CATALOG NUMBER: GALN-SA6B-827-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7
2.5°	3120.7	3100.1	3078.2	3017.8	2953.4	2880.7	2776.5	2676.4	2543.4	2539.3	2440.6
5°	3985.9	3972.2	3874.8	3818.6	3669.1	3470.3	3301.7	3039.8	2797.1	2768.3	2576.3
7.5°	4781.1	4727.6	4690.6	4589.2	4441.1	4186.0	3859.7	3506.0	3100.1	3061.7	2743.6
10°	5380.3	5374.8	5355.6	5267.9	5156.8	4903.1	4541.2	4033.9	3484.0	3408.6	2946.5
12.5°	5828.7	5832.8	5830.0	5828.7	5749.1	5533.9	5141.7	4607.0	3872.1	3818.6	3181.0
15°	6123.4	6164.6	6181.0	6249.6	6256.4	6112.5	5775.2	5160.9	4309.4	4229.9	3433.3
17.5°	6318.1	6338.7	6415.5	6532.0	6626.7	6600.6	6300.3	5673.7	4756.4	4623.4	3695.2
20°	6504.6	6540.3	6599.2	6758.3	6925.6	7002.3	6791.2	6198.9	5199.3	5114.3	3984.5
22.5°	6892.6	6943.4	6963.9	7044.8	7187.4	7323.2	7227.2	6702.1	5684.7	5569.5	4291.6
25°	7549.4	7602.9	7545.3	7526.1	7572.7	7639.9	7619.3	7176.5	6142.6	5978.1	4582.3
27.5°	8405.0	8411.9	8299.4	8192.5	8077.3	8043.0	7980.0	7597.4	6540.3	6403.2	4874.4
30°	9323.7	9290.7	9104.3	8910.9	8716.2	8524.3	8343.3	8003.3	6983.1	6825.5	5160.9
32.5°	10176.5	10158.7	9951.6	9651.4	9322.3	9141.3	8775.2	8413.2	7457.6	7305.4	5455.7
35°	10815.4	10841.5	10613.9	10286.2	9927.0	9766.5	9304.5	8843.8	7948.4	7782.5	5776.6
37.5°	11269.3	11255.6	11054.0	10770.2	10454.8	10315.0	9922.8	9314.1	8476.3	8317.2	6127.6
40°	11431.1	11422.8	11273.4	11066.4	10866.2	10816.8	10570.0	9821.4	9081.0	8894.5	6549.9
42.5°	11328.2	11346.1	11247.3	11191.1	11154.1	11189.8	11213.1	10486.4	9740.5	9569.1	7007.8
45°	11012.9	11003.3	10989.6	11081.4	11289.8	11524.3	11849.3	11114.3	10457.6	10320.5	7622.1
47.5°	10449.3	10517.9	10552.2	10805.8	11261.1	11816.4	12581.4	11956.2	11498.3	11379.0	8558.6
50°	9661.0	9715.8	9918.7	10369.8	11048.5	11926.1	13297.2	13332.8	13234.1	13010.6	9575.9
52.5°	8429.7	8514.7	8932.9	9759.7	10612.5	11880.8	13730.5	14513.4	14643.6	14476.3	10578.2
55°	7051.7	7171.0	7612.5	8697.1	10012.0	11634.0	14029.4	15197.6	15717.2	15562.3	11543.5
57.5°	5702.5	5828.7	6282.5	7332.8	8964.4	11088.3	14225.4	15959.9	17178.8	16977.3	12744.6
60°	4273.8	4405.4	4794.8	5876.6	7472.6	10021.6	14092.4	16620.8	18639.1	18552.7	13947.1
62.5°	2757.3	2902.7	3241.3	4136.7	5743.6	8564.1	13380.8	16985.5	19903.3	19799.1	14824.6
65°	1679.6	1696.1	1882.6	2568.1	3931.0	6630.8	11753.3	16501.5	20569.6	20538.1	15092.0
67.5°	1085.9	1112.0	1197.0	1538.4	2357.0	4605.6	9397.7	14904.1	20180.2	20169.3	14539.4
70°	917.3	925.5	963.9	1037.9	1369.8	2793.0	6599.2	12358.0	18700.8	18700.8	13210.8
72.5°	819.9	830.9	844.6	867.9	977.6	1582.3	3937.9	9619.8	16146.4	16253.3	11244.6
75°	744.5	741.8	750.0	754.1	833.6	1033.8	2036.1	7114.8	12491.0	12277.1	8143.1
77.5°	637.6	641.7	637.6	655.4	736.3	787.0	1033.8	4774.3	7570.0	7293.0	4087.3
80°	523.8	530.6	537.5	548.5	629.3	597.8	621.1	2176.0	2799.8	2740.9	1262.8
82.5°	393.5	403.1	414.1	440.1	495.0	394.9	392.1	929.6	1010.5	925.5	464.8
85°	159.1	187.8	283.8	309.9	311.2	216.6	241.3	388.0	412.7	403.1	182.4
87.5°	37.0	43.9	91.9	138.5	127.5	80.9	89.1	126.1	144.0	133.0	61.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455227

CATALOG NUMBER: GALN-SA6B-827-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7	2348.7
2.5°	2395.4	2347.4	2265.1	2202.0	2156.8	2117.0	2092.3	2077.3	2071.8	2070.4	2071.8
5°	2476.3	2391.2	2261.0	2178.7	2133.5	2107.4	2092.3	2091.0	2092.3	2093.7	2089.6
7.5°	2587.3	2465.3	2295.3	2218.5	2184.2	2165.0	2158.2	2155.4	2156.8	2155.4	2155.4
10°	2735.4	2568.1	2362.4	2282.9	2254.1	2232.2	2221.2	2214.4	2208.9	2203.4	2200.7
12.5°	2898.6	2681.9	2435.1	2358.3	2317.2	2282.9	2258.2	2240.4	2228.1	2215.7	2213.0
15°	3080.9	2802.6	2516.0	2409.1	2350.1	2299.4	2256.9	2228.1	2206.1	2188.3	2186.9
17.5°	3255.1	2916.4	2570.9	2432.4	2346.0	2274.7	2218.5	2178.7	2151.3	2128.0	2125.2
20°	3441.5	3024.7	2595.5	2417.3	2304.9	2218.5	2144.4	2096.5	2064.9	2038.9	2034.8
22.5°	3629.4	3116.6	2592.8	2369.3	2233.6	2132.1	2053.9	2003.2	1966.2	1940.1	1930.5
25°	3809.0	3190.6	2558.5	2292.5	2134.8	2029.3	1949.7	1903.1	1870.2	1838.7	1838.7
27.5°	3970.8	3234.5	2494.1	2199.3	2033.4	1922.3	1859.2	1816.7	1786.6	1766.0	1753.7
30°	4129.8	3255.1	2406.3	2081.4	1926.4	1831.8	1781.1	1756.4	1729.0	1705.7	1702.9
32.5°	4272.4	3250.9	2296.6	1966.2	1825.0	1757.8	1737.2	1718.0	1689.2	1656.3	1648.1
35°	4410.9	3223.5	2166.4	1840.1	1740.0	1713.9	1719.4	1692.0	1639.9	1598.7	1591.9
37.5°	4561.7	3174.2	2023.8	1737.2	1668.7	1693.3	1707.1	1646.7	1561.7	1497.3	1482.2
40°	4735.9	3117.9	1875.7	1634.4	1612.4	1674.1	1674.1	1563.1	1446.5	1406.8	1395.8
42.5°	4940.2	3071.3	1752.3	1548.0	1565.8	1627.5	1620.7	1452.0	1404.0	1383.5	1378.0
45°	5263.8	3054.9	1624.8	1472.6	1527.4	1572.7	1516.5	1413.6	1386.2	1369.8	1364.3
47.5°	5775.2	3074.1	1512.4	1416.4	1483.6	1517.8	1399.9	1387.6	1368.4	1345.1	1342.3
50°	6249.6	3056.2	1432.8	1384.8	1445.2	1452.0	1351.9	1356.0	1345.1	1319.0	1313.5
52.5°	6637.6	3000.0	1382.1	1368.4	1412.3	1336.8	1306.7	1321.8	1317.7	1284.7	1279.3
55°	7064.0	2965.7	1357.4	1368.4	1390.3	1236.8	1264.2	1286.1	1280.6	1257.3	1256.0
57.5°	7581.0	2972.6	1339.6	1372.5	1368.4	1186.0	1221.7	1247.7	1246.4	1239.5	1239.5
60°	8110.2	2975.3	1312.2	1371.1	1342.3	1146.3	1177.8	1214.8	1217.6	1221.7	1221.7
62.5°	8285.7	2856.1	1258.7	1346.4	1284.7	1107.9	1136.7	1187.4	1184.7	1195.6	1197.0
65°	7958.0	2525.6	1179.2	1290.2	1210.7	1080.4	1105.1	1151.7	1136.7	1165.5	1170.9
67.5°	7243.7	2089.6	1055.8	1188.8	1128.4	1051.7	1084.6	1102.4	1075.0	1131.2	1132.5
70°	6260.6	1631.6	899.5	1044.8	1035.2	1021.5	1068.1	1040.7	1002.3	1070.8	1057.1
72.5°	5235.0	1246.4	718.5	854.2	910.4	976.2	1039.3	961.2	907.7	928.3	903.6
75°	3932.4	921.4	577.2	669.1	758.2	911.8	1013.3	865.2	782.9	763.7	758.2
77.5°	2004.6	601.9	431.9	500.5	569.0	824.0	977.6	752.7	648.5	618.4	604.7
80°	715.7	374.3	304.4	345.5	383.9	708.9	854.2	622.5	503.2	497.7	503.2
82.5°	331.8	241.3	204.3	226.2	227.6	473.0	651.3	464.8	382.5	581.4	490.9
85°	142.6	120.7	115.2	112.4	104.2	211.2	366.1	249.5	389.4	174.1	160.4
87.5°	42.5	48.0	42.5	31.5	23.3	23.3	37.0	13.7	9.6	6.9	6.9
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)