

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: P531127

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-827-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16405 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

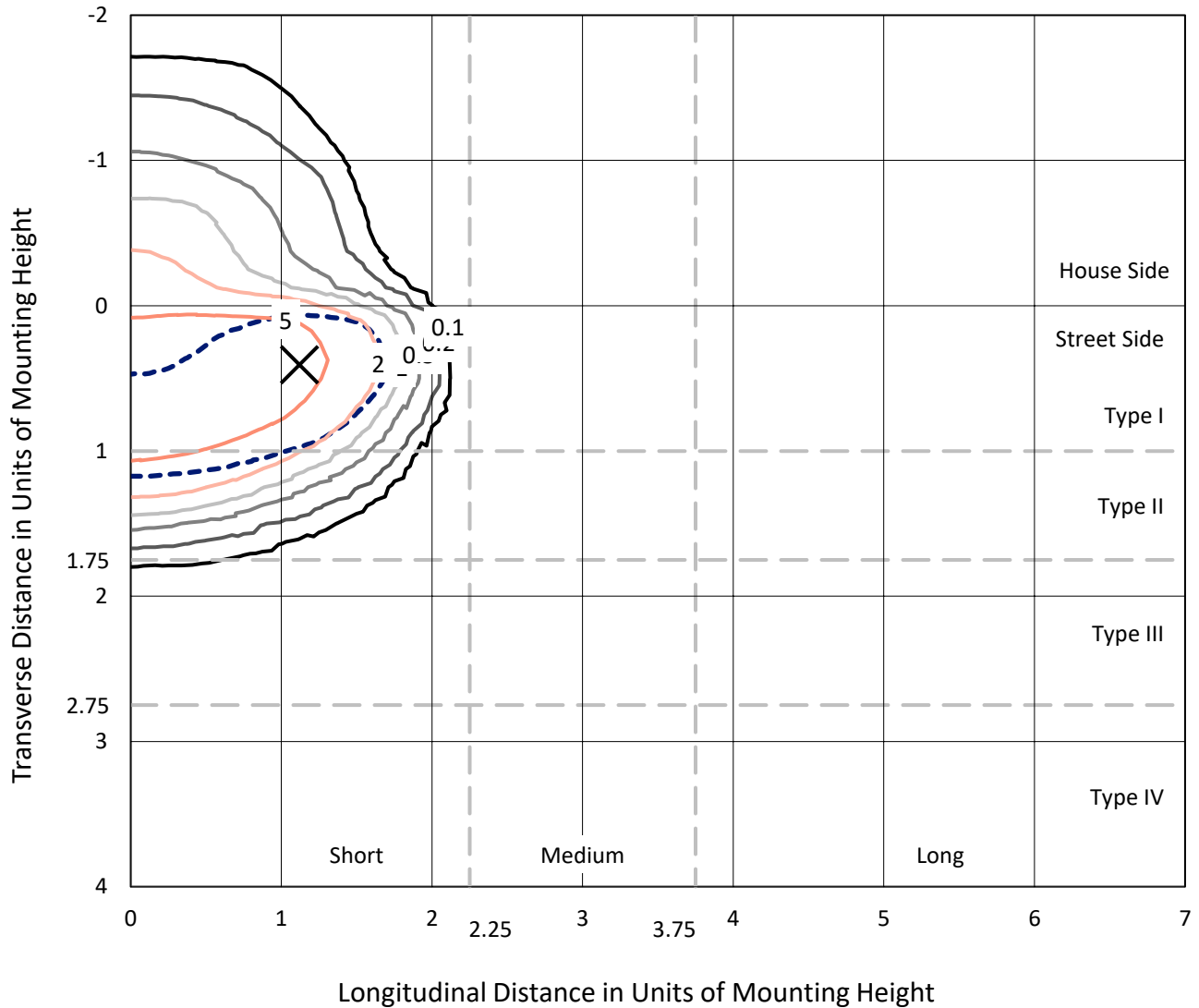
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P531127  
 CATALOG NUMBER: GALN-SA6B-827-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

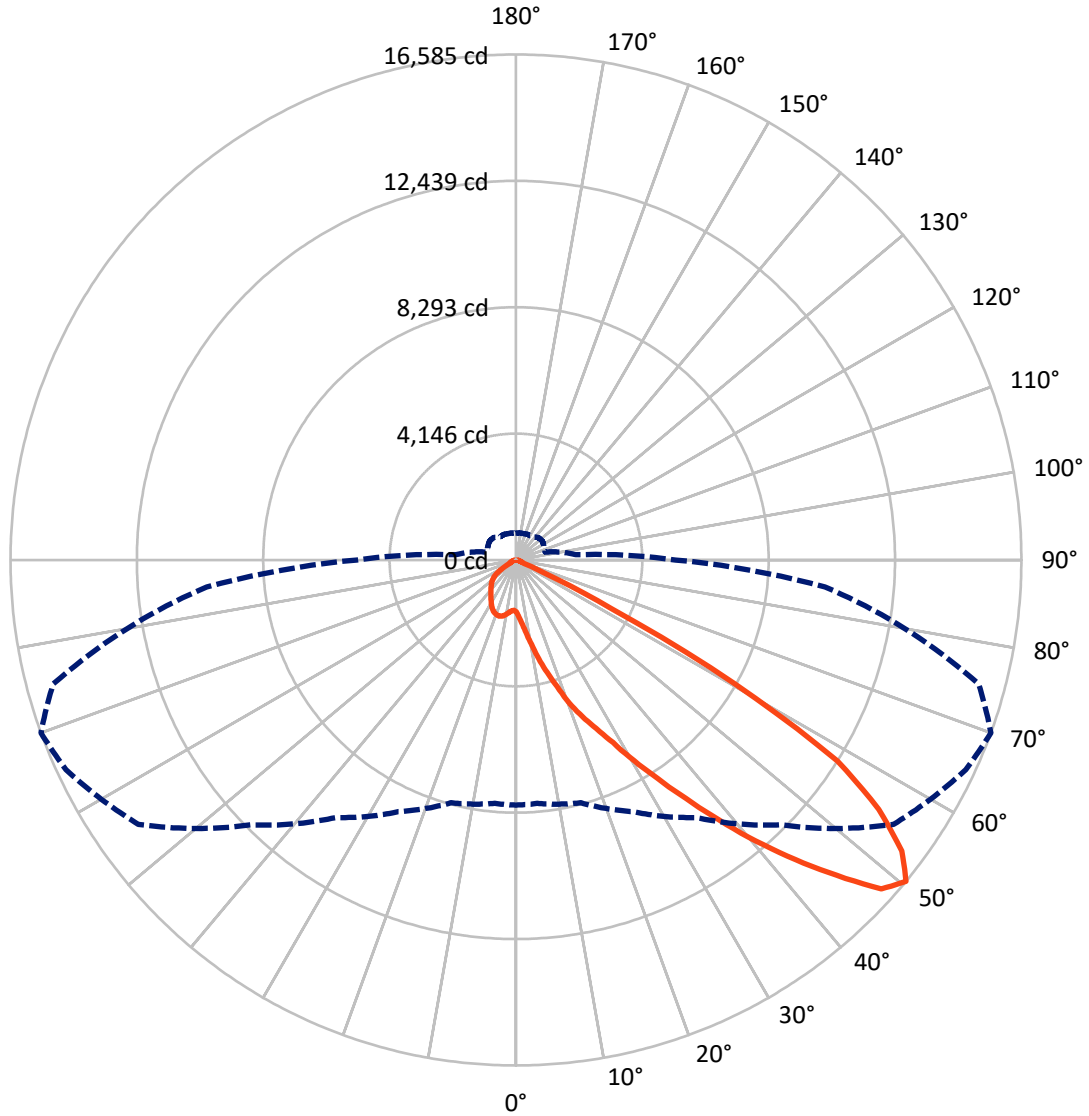
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P531127  
CATALOG NUMBER: GALN-SA6B-827-U-T2R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P531127

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2291.1	0.0	2291.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	14113.9	0.0	14113.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16405.0	0.0	16405.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	1.3
10°-20°	955.8	5.8
20°-30°	2005.1	12.2
30°-40°	3456.2	21.1
40°-50°	5051.1	30.8
50°-60°	3934.0	24.0
60°-70°	666.5	4.1
70°-80°	91.6	0.6
80°-90°	23.7	0.1
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°	16405.0	100.0
0°-180°	16405.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P531127

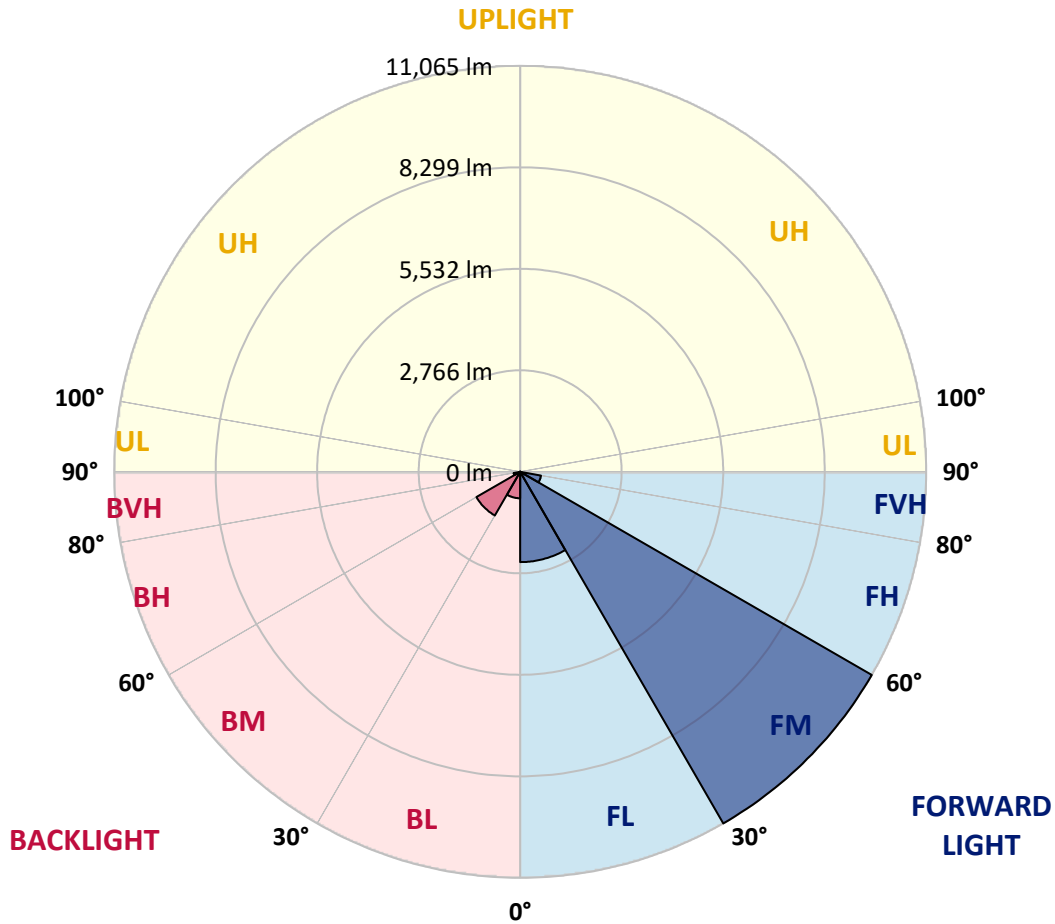
CATALOG NUMBER: GALN-SA6B-827-U-T2R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.9	15.0			
FM (30°-60°)	11064.9	67.4			
FH (60°-80°)	577.1	3.5			G0/660
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	720.9	4.4	B2/1000		
BM (30°-60°)	1376.4	8.4	B2/2500		
BH (60°-80°)	181.0	1.1	B1/500		G1/500
BVH (80°-90°)	12.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





REPORT NUMBER: P531127

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
2.5°	2225.2	2209.0	2173.9	2109.2	2082.2	2017.5	1979.7	1906.9	1861.1	1809.8	1753.2
5°	3134.1	3050.5	2999.3	2926.5	2713.4	2581.2	2362.7	2176.6	2090.3	1995.9	1866.5
7.5°	4072.8	4018.8	3948.7	3792.3	3646.6	3371.5	2996.6	2586.6	2411.3	2249.5	1993.2
10°	4849.6	4698.5	4690.4	4574.4	4415.3	4086.3	3635.8	3126.1	2813.2	2575.8	2173.9
12.5°	5391.7	5254.1	5316.2	5302.7	5154.3	4852.3	4331.7	3657.4	3331.0	2961.5	2360.0
15°	5885.3	5828.6	5809.8	5793.6	5734.2	5510.4	5043.8	4304.7	3832.7	3387.7	2570.4
17.5°	6368.1	6222.4	6292.6	6306.0	6300.7	6098.4	5661.4	4919.7	4364.1	3838.1	2791.6
20°	6796.9	6810.4	6716.0	6697.1	6681.0	6672.9	6246.7	5529.3	5016.8	4310.1	3080.2
22.5°	7347.2	7252.8	7336.4	7282.4	7177.2	7112.5	6786.2	6068.7	5583.2	4879.2	3374.2
25°	7997.2	8072.7	7875.8	7854.2	7738.3	7514.4	7220.4	6672.9	6128.0	5407.9	3692.5
27.5°	8798.3	8666.1	8614.9	8496.2	8285.8	8191.4	7846.2	7295.9	6786.2	5963.5	3999.9
30°	9486.0	9451.0	9194.7	9054.5	8871.1	8868.4	8385.6	8140.1	7643.9	6834.7	4423.4
32.5°	10047.1	9893.3	9798.9	9701.8	9553.5	9593.9	9186.7	9057.2	8558.2	7643.9	4922.4
35°	10422.0	10311.4	10254.7	10106.4	10063.2	10244.0	10074.0	10020.1	9610.1	8782.1	5507.7
37.5°	10540.7	10575.7	10564.9	10378.8	10470.5	10958.7	11177.2	11036.9	10821.2	9982.3	6141.5
40°	10645.8	10670.1	10616.2	10834.6	11096.3	11651.9	12442.2	12210.2	12129.3	11198.8	7023.5
42.5°	10705.2	10686.3	10686.3	11063.9	11460.4	12577.0	13664.0	13510.3	13448.2	12493.4	8043.0
45°	10448.9	10265.5	10462.4	10974.9	11773.3	13032.9	14640.4	14853.5	14764.5	14033.5	9235.2
47.5°	9491.4	9604.7	9715.3	10400.4	11393.0	12892.6	15239.2	15964.7	16129.2	15328.2	10017.4
50°	8043.0	8018.8	8248.0	9111.1	10316.8	12288.4	15123.2	16285.7	16585.1	15716.6	10181.9
52.5°	5850.2	6028.2	6276.4	7134.1	8563.6	10724.1	13626.2	15457.6	15856.8	15239.2	10074.0
55°	3406.6	3209.7	3768.0	4493.5	5842.1	8088.9	11519.7	13701.8	14440.8	14370.7	9529.2
57.5°	1364.8	1321.6	1513.1	2039.1	3047.8	5014.1	8377.5	11258.1	12442.2	13162.3	8374.8
60°	598.8	585.3	687.8	830.7	1246.1	2311.5	4582.5	7001.9	8237.2	9197.4	5763.9
62.5°	431.6	426.2	477.4	528.7	658.1	1006.1	1925.8	2821.3	3517.1	4248.1	2581.2
65°	347.9	361.4	396.5	423.5	485.5	558.3	679.7	784.9	962.9	998.0	569.1
67.5°	283.2	294.0	326.4	356.0	366.8	302.1	312.9	275.1	275.1	245.4	196.9
70°	207.7	210.4	248.1	283.2	226.6	121.4	213.1	213.1	191.5	183.4	167.2
72.5°	153.7	156.4	186.1	175.3	89.0	75.5	156.4	172.6	156.4	148.3	134.9
75°	113.3	116.0	97.1	40.5	37.8	48.5	91.7	118.7	113.3	110.6	102.5
77.5°	21.6	16.2	13.5	18.9	27.0	40.5	59.3	72.8	75.5	80.9	75.5
80°	2.7	2.7	8.1	16.2	29.7	43.2	62.0	70.1	72.8	75.5	70.1
82.5°	0.0	2.7	8.1	16.2	29.7	40.5	53.9	62.0	67.4	70.1	67.4
85°	0.0	2.7	5.4	13.5	24.3	29.7	27.0	18.9	16.2	18.9	13.5
87.5°	0.0	0.0	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4	5.4
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: P531127

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
2.5°	1720.8	1710.0	1672.3	1631.8	1596.7	1612.9	1596.7	1583.3	1588.6	1583.3	1577.9
5°	1815.2	1766.7	1685.7	1650.7	1621.0	1618.3	1610.2	1607.5	1610.2	1610.2	1586.0
7.5°	1904.2	1826.0	1739.7	1701.9	1666.9	1669.6	1650.7	1650.7	1648.0	1634.5	1629.1
10°	2039.1	1933.9	1823.3	1755.9	1712.7	1704.6	1685.7	1666.9	1666.9	1666.9	1639.9
12.5°	2187.4	2055.3	1904.2	1826.0	1774.8	1734.3	1704.6	1699.2	1669.6	1664.2	1650.7
15°	2316.9	2149.7	1958.2	1850.3	1785.5	1731.6	1685.7	1656.1	1642.6	1634.5	1623.7
17.5°	2443.7	2230.6	1987.8	1850.3	1780.2	1718.1	1669.6	1642.6	1610.2	1615.6	1594.0
20°	2613.6	2316.9	1995.9	1815.2	1728.9	1669.6	1604.8	1591.3	1572.5	1556.3	1561.7
22.5°	2778.1	2378.9	1971.7	1772.1	1648.0	1577.9	1545.5	1529.3	1521.2	1507.7	1488.9
25°	2926.5	2446.4	1933.9	1693.8	1561.7	1510.4	1480.8	1478.1	1459.2	1459.2	1424.1
27.5°	3077.5	2470.6	1869.2	1602.1	1486.2	1456.5	1443.0	1437.6	1429.5	1410.6	1386.4
30°	3250.1	2478.7	1774.8	1507.7	1418.7	1386.4	1405.2	1418.7	1383.7	1348.6	1359.4
32.5°	3393.1	2459.8	1661.5	1418.7	1370.2	1354.0	1391.8	1405.2	1364.8	1327.0	1308.1
35°	3565.7	2414.0	1550.9	1348.6	1321.6	1354.0	1386.4	1386.4	1305.4	1259.6	1248.8
37.5°	3827.3	2362.7	1448.4	1289.3	1270.4	1337.8	1381.0	1351.3	1224.5	1167.9	1154.4
40°	4107.8	2330.4	1348.6	1229.9	1243.4	1310.8	1335.1	1243.4	1113.9	1078.9	1068.1
42.5°	4515.1	2265.6	1259.6	1178.7	1219.1	1273.1	1273.1	1108.5	1060.0	1041.1	1038.4
45°	5022.2	2219.8	1181.4	1135.5	1184.1	1197.6	1154.4	1038.4	1003.4	998.0	1000.7
47.5°	5270.3	2130.8	1100.5	1084.3	1119.3	1122.0	1008.8	981.8	952.1	944.0	938.6
50°	5232.6	1971.7	995.3	1016.8	1065.4	1038.4	919.7	925.1	898.2	895.5	882.0
52.5°	4968.2	1720.8	890.1	941.3	995.3	917.0	846.9	841.5	841.5	806.5	793.0
55°	4404.5	1386.4	763.3	828.0	892.8	771.4	752.5	747.1	733.6	701.3	693.2
57.5°	3487.5	1016.8	574.5	644.6	757.9	655.4	652.7	628.4	593.4	569.1	569.1
60°	2074.1	585.3	361.4	393.8	501.7	531.3	590.7	579.9	520.6	482.8	472.0
62.5°	946.7	302.1	229.3	234.7	269.7	345.2	463.9	536.7	453.1	388.4	383.0
65°	318.3	223.9	188.8	180.7	186.1	207.7	277.8	380.3	361.4	299.4	288.6
67.5°	194.2	199.6	178.0	164.5	164.5	161.8	159.1	172.6	213.1	207.7	210.4
70°	167.2	183.4	164.5	148.3	143.0	134.9	113.3	94.4	80.9	94.4	99.8
72.5°	134.9	145.6	140.3	126.8	113.3	102.5	80.9	62.0	45.9	40.5	40.5
75°	99.8	107.9	113.3	97.1	86.3	72.8	59.3	40.5	24.3	16.2	16.2
77.5°	72.8	80.9	83.6	75.5	64.7	51.2	37.8	27.0	13.5	5.4	5.4
80°	62.0	72.8	80.9	75.5	67.4	48.5	35.1	18.9	10.8	2.7	2.7
82.5°	59.3	72.8	80.9	72.8	64.7	45.9	35.1	21.6	8.1	2.7	2.7
85°	13.5	18.9	24.3	29.7	35.1	35.1	27.0	16.2	8.1	2.7	2.7
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	0.0
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)