

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: P531125

Luminaire Tested: **GALN-SA6B-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14632 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

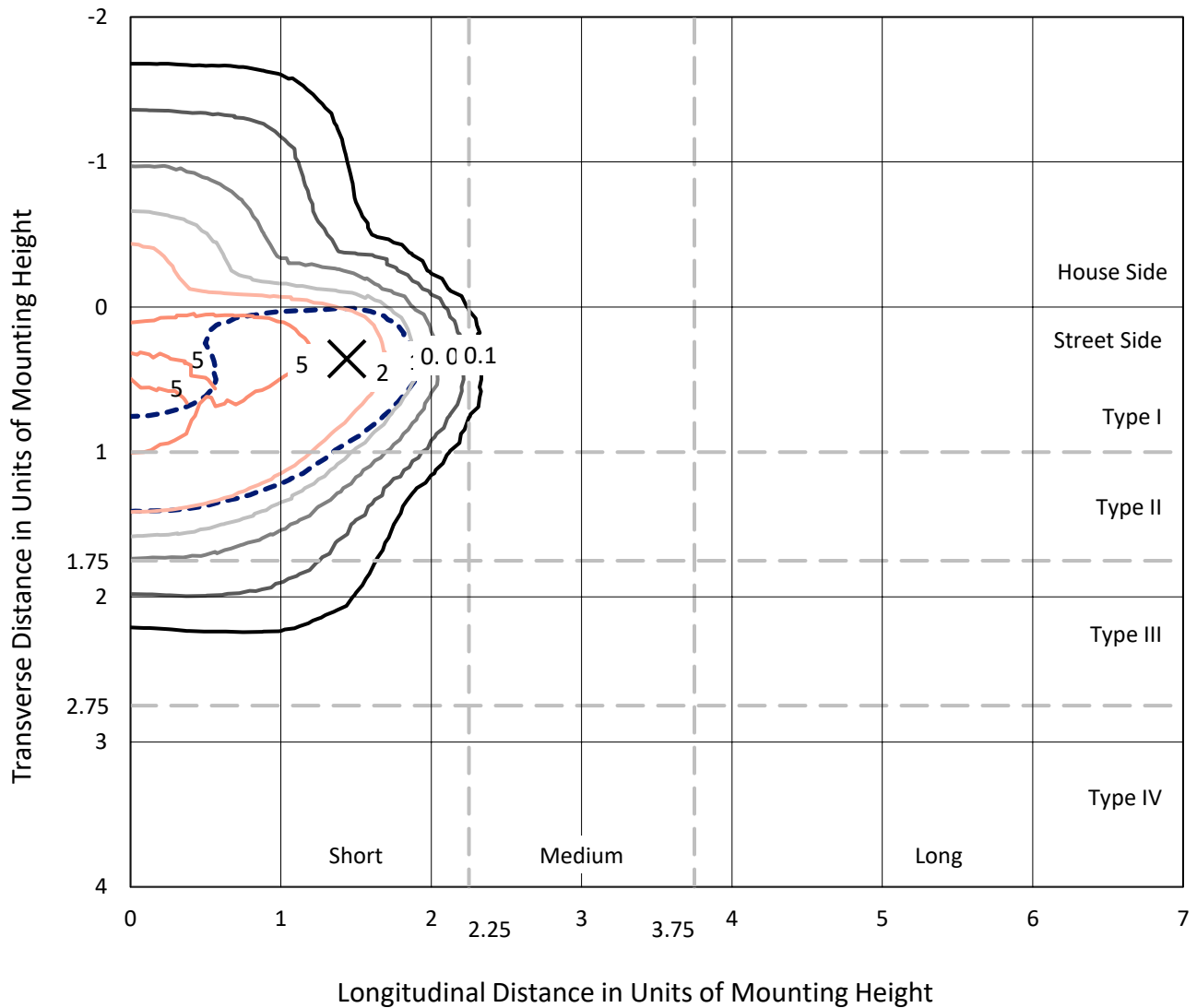
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

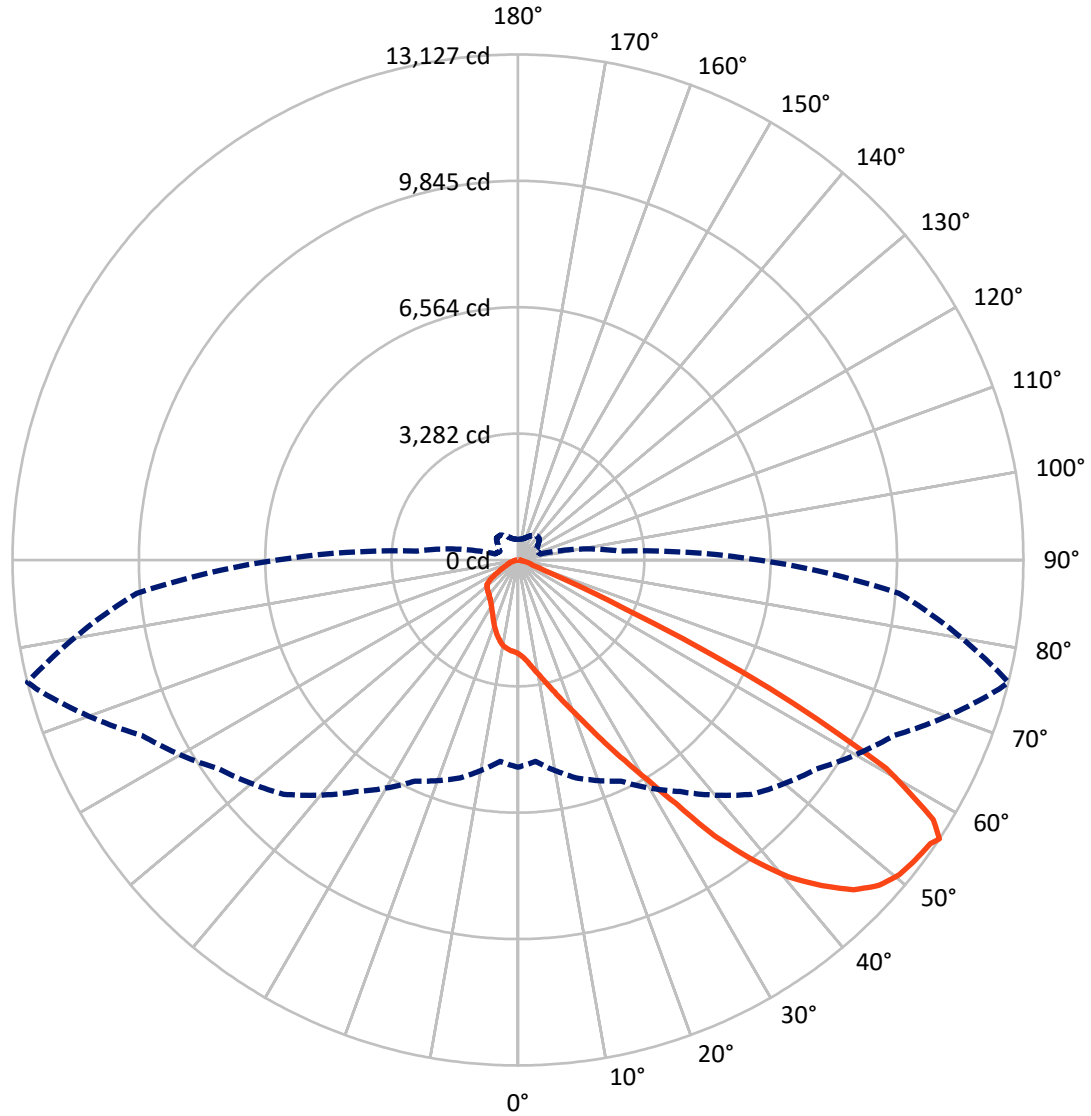
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2298.6	0.0	2298.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12333.4	0.0	12333.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	14632.0	0.0	14632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	1.7
10°-20°	788.2	5.4
20°-30°	1429.2	9.8
30°-40°	2464.8	16.8
40°-50°	4004.1	27.4
50°-60°	4220.4	28.8
60°-70°	1289.5	8.8
70°-80°	165.3	1.1
80°-90°	25.1	0.2
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°	14632.0	100.0
0°-180°	14632.0	100.0

Coefficient of Utilization

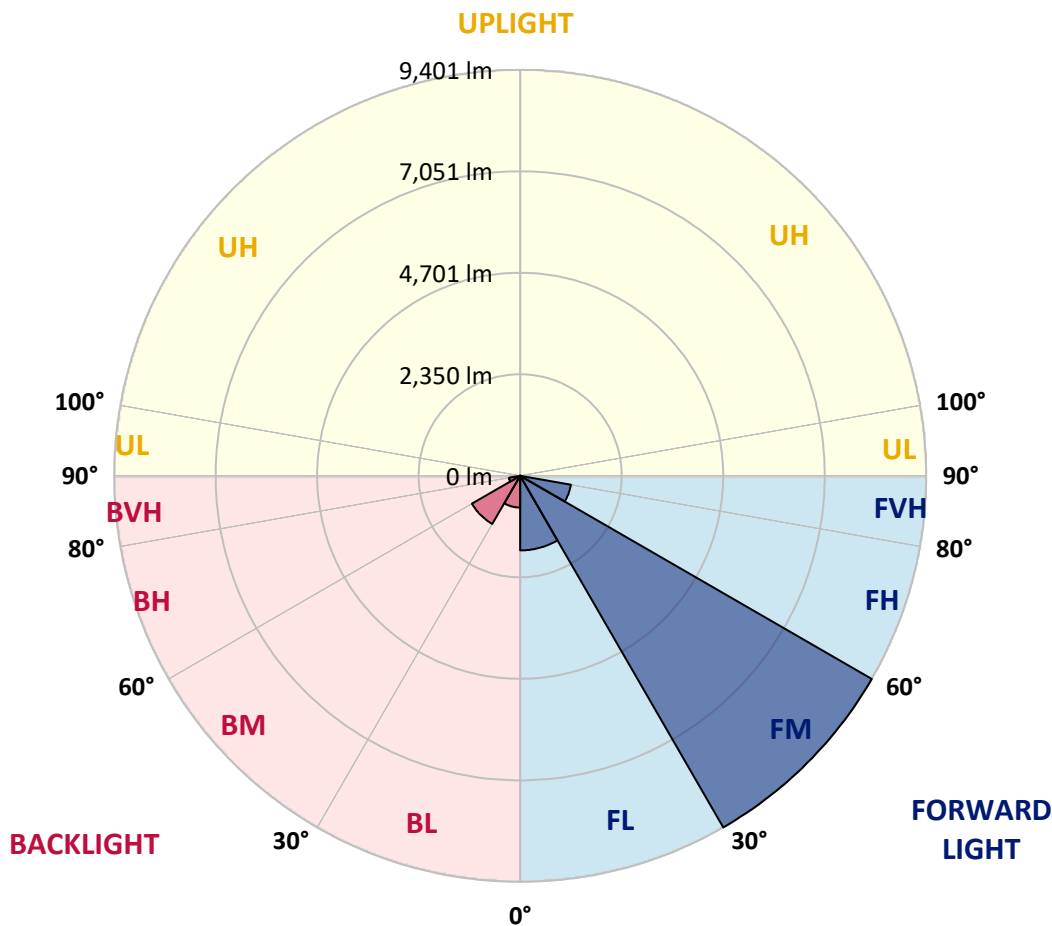


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1727.4	11.8			
FM (30°-60°)	9401.0	64.2			
FH (60°-80°)	1192.6	8.2			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	735.3	5.0	B2/1000		
BM (30°-60°)	1288.2	8.8	B2/2500		
BH (60°-80°)	262.2	1.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5
2.5°	2805.0	2740.3	2743.0	2737.6	2729.5	2699.8	2610.8	2597.3	2538.0	2521.8	2467.9
5°	3142.2	3085.5	3117.9	3069.3	3023.5	2996.5	2850.9	2783.4	2689.0	2654.0	2578.5
7.5°	3352.5	3325.6	3314.8	3317.5	3274.3	3206.9	3142.2	2993.8	2867.1	2840.1	2681.0
10°	3455.0	3438.9	3455.0	3446.9	3465.8	3473.9	3360.6	3271.6	3085.5	3039.7	2791.5
12.5°	3479.3	3511.7	3525.2	3560.2	3606.1	3684.3	3676.2	3554.8	3306.7	3277.0	2961.5
15°	3538.6	3565.6	3552.1	3608.8	3695.1	3827.2	3897.4	3878.5	3611.5	3557.5	3158.4
17.5°	3592.6	3544.0	3589.9	3703.2	3789.5	3991.8	4161.7	4239.9	3943.2	3881.2	3339.1
20°	3665.4	3651.9	3643.8	3700.5	3854.2	4123.9	4461.1	4604.0	4315.4	4250.7	3598.0
22.5°	3886.6	3889.3	3883.9	3800.3	3910.9	4215.6	4722.7	5076.0	4760.5	4706.5	3892.0
25°	4177.9	4142.8	4115.8	4048.4	4034.9	4299.2	4987.0	5653.2	5294.5	5256.7	4210.2
27.5°	4485.3	4485.3	4404.4	4342.4	4256.1	4506.9	5229.8	6214.2	5939.1	5887.9	4488.0
30°	4819.8	4838.7	4827.9	4695.7	4641.8	4733.5	5477.9	6931.7	6678.1	6613.4	4946.6
32.5°	5313.4	5272.9	5318.8	5208.2	5049.0	5130.0	5869.0	7573.6	7638.3	7546.6	5548.0
35°	5966.1	5941.8	5912.1	5731.4	5542.6	5607.4	6421.9	8363.8	8843.9	8798.1	6154.9
37.5°	6551.4	6537.9	6513.6	6389.5	6171.1	6249.3	7050.3	9186.5	10019.9	9868.8	7012.6
40°	7166.3	7239.1	7160.9	7050.3	6850.7	7023.4	7789.3	9674.6	11009.7	10826.3	7668.0
42.5°	7999.7	7943.1	7978.1	7775.9	7668.0	7856.8	8531.1	10162.8	11778.4	11559.9	8363.8
45°	8887.1	8889.8	8795.4	8730.6	8450.1	8655.1	8986.9	10432.5	12390.7	12220.7	8889.8
47.5°	9456.2	9453.5	9556.0	9658.5	9369.9	9167.6	9297.0	10688.8	12706.2	12628.0	9081.3
50°	9367.2	9394.1	9526.3	9909.3	10060.3	9787.9	9588.3	10613.3	12849.2	12841.1	9245.8
52.5°	8148.1	8237.1	8458.2	9011.1	9771.7	10108.9	9893.1	10753.5	12919.3	12932.8	9491.2
55°	6203.4	6252.0	6672.7	7344.3	8185.8	9340.2	9771.7	10864.1	12973.2	12997.5	9787.9
56°	5380.8	5251.3	5858.2	6335.6	7341.6	8603.9	9464.3	10777.8	12940.9	13127.0	9936.3
57.5°	4061.9	3975.6	4466.5	5062.5	6030.8	7363.2	8509.5	10370.5	12722.4	12719.7	9723.2
60°	2470.6	2384.3	2761.9	3112.5	3654.6	4533.9	5750.3	8258.6	10756.2	10982.8	7873.0
62.5°	1469.9	1523.9	1896.1	2109.2	2284.5	2376.2	2974.9	4908.8	7177.1	7338.9	4884.5
65°	979.1	997.9	1278.4	1629.1	1707.3	1359.4	1211.0	1987.8	3112.5	3012.7	2014.8
67.5°	604.2	647.3	857.7	1224.5	1356.7	992.5	574.5	741.7	857.7	857.7	582.6
70°	366.8	388.4	571.8	833.4	930.5	639.2	418.1	418.1	412.7	404.6	347.9
72.5°	175.3	188.8	291.3	428.8	436.9	337.1	323.7	353.3	345.2	342.5	288.6
75°	75.5	80.9	102.5	134.9	153.7	142.9	196.9	253.5	261.6	253.5	207.7
77.5°	24.3	27.0	37.8	48.5	51.2	62.0	83.6	105.2	121.4	113.3	102.5
80°	2.7	5.4	10.8	24.3	37.8	48.5	62.0	70.1	78.2	78.2	72.8
82.5°	2.7	2.7	10.8	21.6	35.1	45.9	59.3	67.4	78.2	80.9	75.5
85°	0.0	2.7	8.1	18.9	29.7	29.7	27.0	27.0	18.9	18.9	18.9
87.5°	0.0	0.0	2.7	2.7	2.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5
2.5°	2457.1	2451.7	2378.9	2333.0	2308.8	2260.2	2230.5	2209.0	2192.8	2173.9	2176.6
5°	2489.5	2470.6	2349.2	2265.6	2165.8	2111.9	2066.0	2028.3	2004.0	1998.6	1987.8
7.5°	2581.2	2481.4	2298.0	2146.9	2020.2	1966.2	1925.8	1901.5	1912.3	1888.0	1906.9
10°	2651.3	2502.9	2235.9	2017.5	1890.7	1850.2	1828.7	1847.5	1874.5	1863.7	1850.2
12.5°	2737.6	2524.5	2136.1	1893.4	1774.7	1745.1	1782.8	1817.9	1871.8	1893.4	1866.4
15°	2834.7	2548.8	2009.4	1750.4	1674.9	1699.2	1763.9	1826.0	1879.9	1906.9	1923.1
17.5°	2953.4	2540.7	1885.3	1637.2	1580.5	1650.7	1728.9	1785.5	1866.4	1906.9	1896.1
20°	3064.0	2513.7	1747.7	1523.9	1526.6	1591.3	1656.0	1747.7	1790.9	1844.8	1826.0
22.5°	3169.1	2465.2	1604.8	1445.7	1445.7	1545.5	1577.8	1637.2	1674.9	1701.9	1699.2
25°	3317.5	2373.5	1486.1	1370.1	1402.5	1467.2	1494.2	1513.1	1496.9	1518.5	1521.2
27.5°	3422.7	2279.1	1389.0	1302.7	1362.1	1410.6	1402.5	1391.7	1354.0	1324.3	1343.2
30°	3536.0	2168.5	1305.4	1256.9	1289.2	1332.4	1300.0	1267.7	1208.3	1159.8	1162.5
32.5°	3697.8	2117.3	1232.6	1202.9	1246.1	1251.5	1216.4	1167.9	1108.5	1062.7	1060.0
35°	3999.9	2084.9	1170.6	1167.9	1176.0	1178.7	1143.6	1084.3	1060.0	1022.2	1035.7
37.5°	4301.9	2068.7	1127.4	1116.6	1113.9	1116.6	1076.2	1019.5	1065.4	1062.7	1068.1
40°	4687.6	2141.5	1065.4	1051.9	1054.6	1054.6	1003.3	987.2	1068.1	1076.2	1078.9
42.5°	5078.7	2233.2	1024.9	981.8	992.5	992.5	965.6	946.7	1003.3	949.4	941.3
45°	5418.6	2368.1	981.8	911.6	938.6	952.1	944.0	911.6	876.6	784.9	784.9
47.5°	5529.1	2486.8	930.5	844.2	865.8	925.1	900.8	833.4	771.4	695.9	690.5
50°	5723.3	2616.2	890.1	766.0	811.8	884.7	860.4	793.0	722.8	668.9	671.6
52.5°	5922.9	2764.6	814.5	674.3	730.9	852.3	852.3	776.8	668.9	631.1	625.7
55°	6222.3	2759.2	679.7	552.9	652.7	803.7	817.2	695.9	598.8	569.1	569.1
56°	6265.5	2635.1	612.3	517.9	617.6	790.3	793.0	674.3	571.8	539.4	539.4
57.5°	5941.8	2378.9	536.7	474.7	574.5	766.0	768.7	655.4	550.2	504.4	499.0
60°	4571.7	1610.2	447.7	423.5	520.5	690.5	704.0	596.1	482.8	447.7	445.0
62.5°	2581.2	892.8	393.8	383.0	447.7	588.0	628.4	520.5	410.0	391.1	396.5
65°	1178.7	490.9	331.7	310.2	361.4	453.1	507.1	428.8	337.1	315.6	315.6
67.5°	431.5	334.4	283.2	245.4	253.5	294.0	329.1	277.8	223.9	191.5	199.6
70°	307.5	280.5	248.1	213.1	196.9	191.5	188.8	156.4	110.6	86.3	91.7
72.5°	248.1	232.0	207.7	180.7	153.7	129.5	110.6	80.9	51.2	35.1	32.4
75°	178.0	169.9	151.0	129.5	107.9	91.7	75.5	51.2	27.0	13.5	13.5
77.5°	91.7	91.7	89.0	80.9	67.4	53.9	43.2	29.7	16.2	5.4	5.4
80°	70.1	75.5	78.2	70.1	62.0	48.5	35.1	21.6	10.8	2.7	2.7
82.5°	67.4	78.2	83.6	72.8	62.0	45.9	35.1	21.6	10.8	2.7	2.7
85°	16.2	16.2	24.3	27.0	35.1	37.8	29.7	18.9	8.1	2.7	2.7
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	2.7	2.7	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)