

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: P527797

Luminaire Tested: **GALN-SA2D-750-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527797  
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-SA2D-750-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

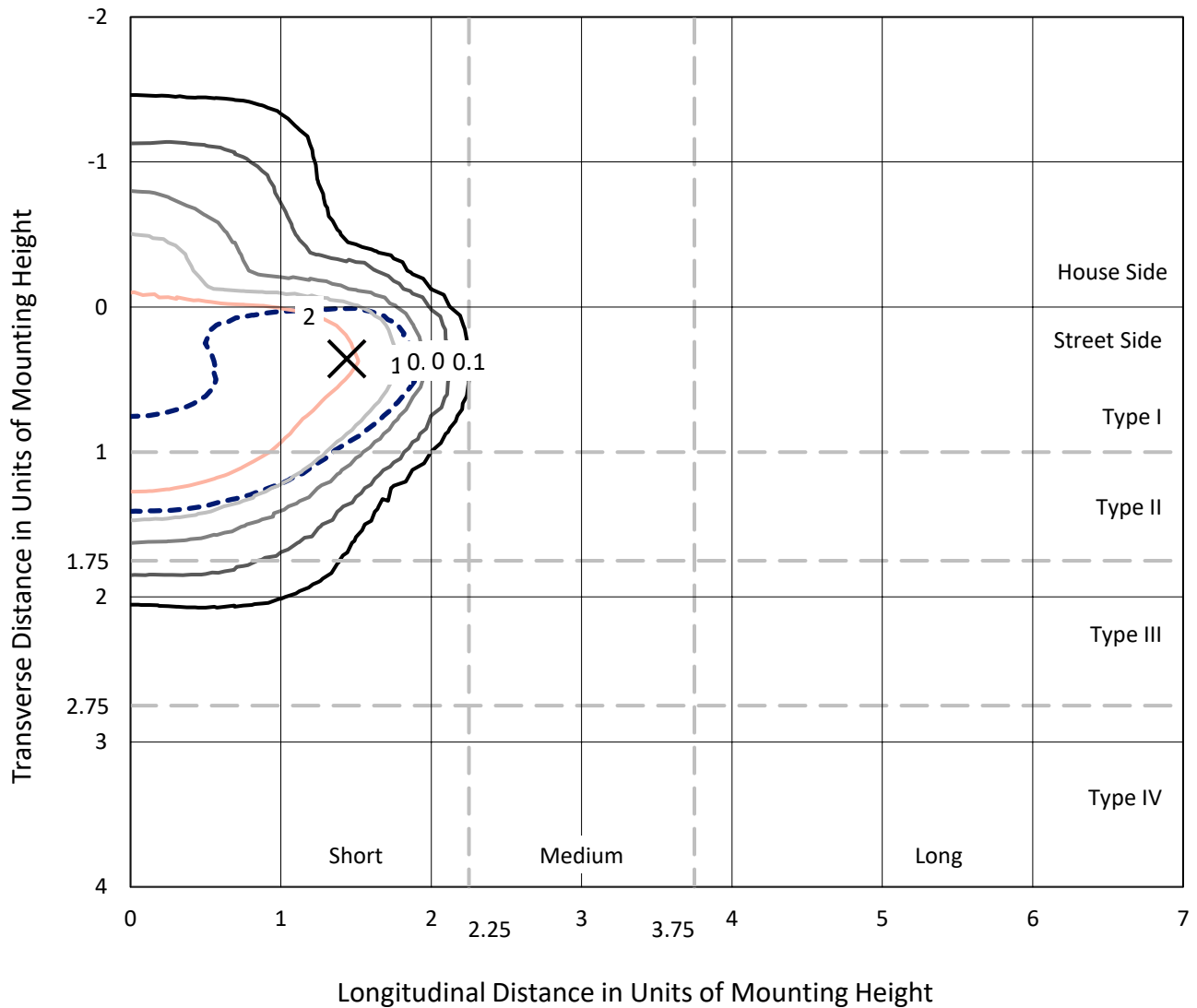
Lumens per Lamp: N/A  
Luminaire Lumens: 9177 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

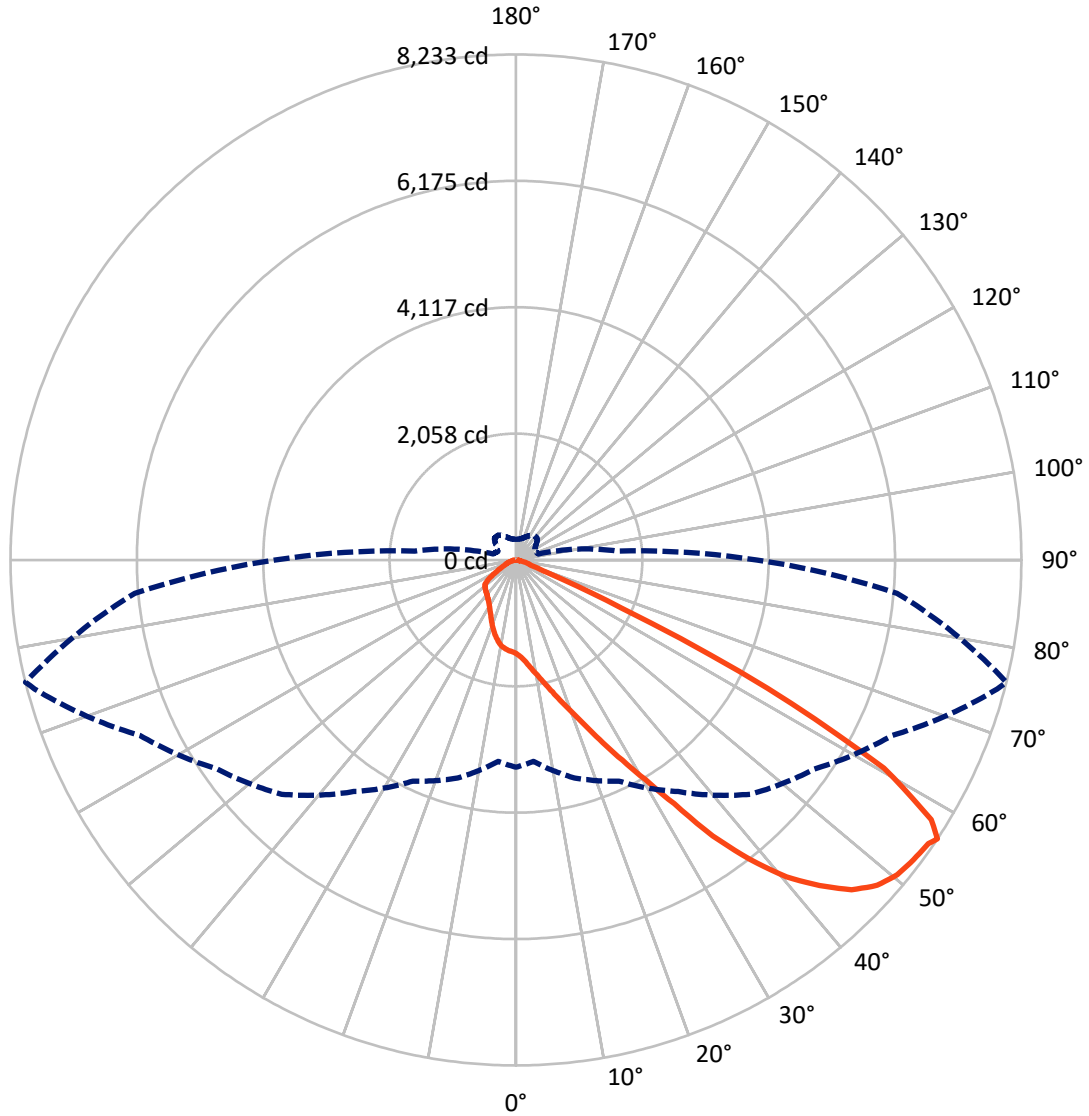
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	1441.7	0.0	1441.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	7735.3	0.0	7735.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	9177.0	0.0	9177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	1.7
10°-20°	494.4	5.4
20°-30°	896.4	9.8
30°-40°	1545.9	16.8
40°-50°	2511.3	27.4
50°-60°	2647.0	28.8
60°-70°	808.8	8.8
70°-80°	103.7	1.1
80°-90°	15.8	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°	9177.0	100.0
0°-180°	9177.0	100.0

**Coefficient of Utilization**

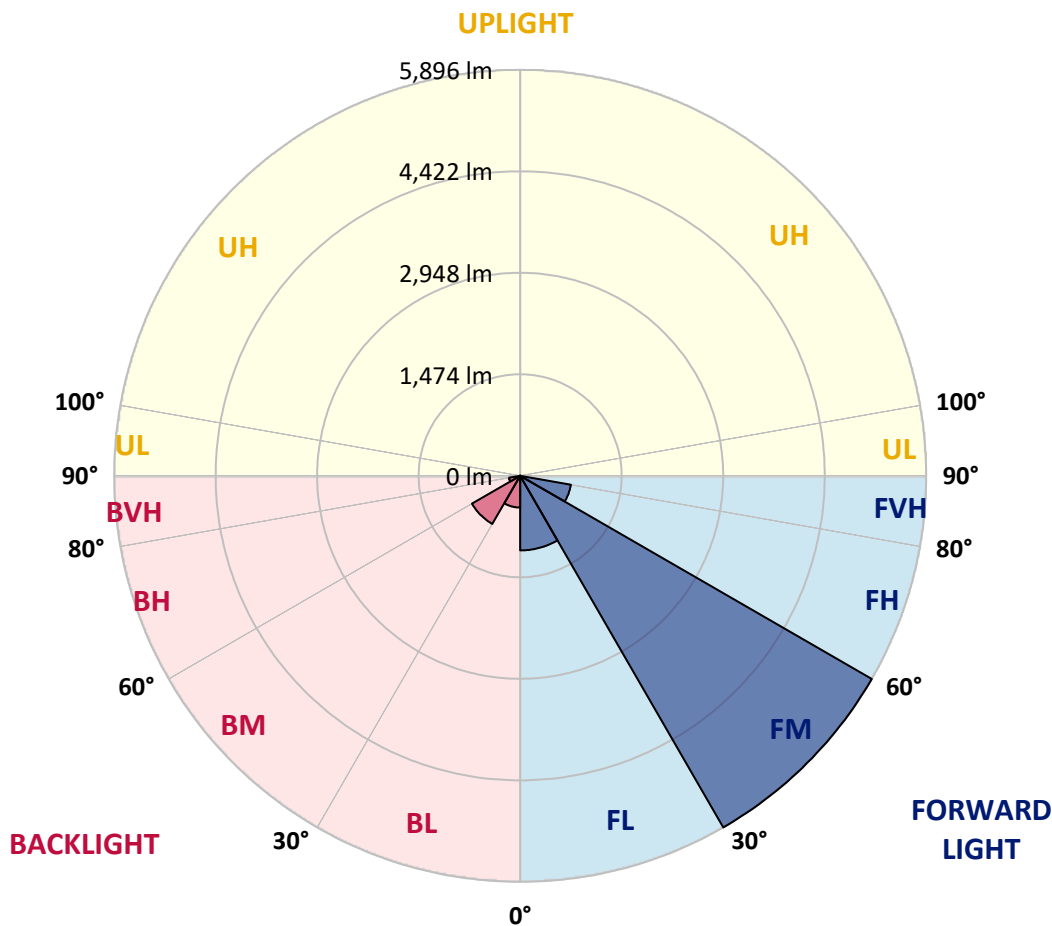


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.4	11.8			
FM (30°-60°)	5896.2	64.2			
FH (60°-80°)	748.0	8.2			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	461.2	5.0	B1/500		
BM (30°-60°)	808.0	8.8	B1/1000		
BH (60°-80°)	164.5	1.8	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5
2.5°	1759.3	1718.7	1720.4	1717.0	1711.9	1693.3	1637.5	1629.0	1591.8	1581.7	1547.8
5°	1970.7	1935.2	1955.5	1925.1	1896.3	1879.4	1788.0	1745.7	1686.5	1664.5	1617.2
7.5°	2102.7	2085.8	2079.0	2080.7	2053.6	2011.3	1970.7	1877.7	1798.2	1781.3	1681.5
10°	2167.0	2156.8	2167.0	2161.9	2173.7	2178.8	2107.7	2051.9	1935.2	1906.4	1750.8
12.5°	2182.2	2202.5	2210.9	2232.9	2261.7	2310.7	2305.7	2229.5	2073.9	2055.3	1857.4
15°	2219.4	2236.3	2227.9	2263.4	2317.5	2400.4	2444.4	2432.5	2265.1	2231.2	1980.9
17.5°	2253.2	2222.8	2251.5	2322.6	2376.7	2503.6	2610.2	2659.2	2473.1	2434.2	2094.2
20°	2298.9	2290.4	2285.4	2320.9	2417.3	2586.5	2797.9	2887.6	2706.6	2666.0	2256.6
22.5°	2437.6	2439.3	2435.9	2383.5	2452.8	2644.0	2962.0	3183.6	2985.7	2951.9	2441.0
25°	2620.3	2598.3	2581.4	2539.1	2530.7	2696.4	3127.8	3545.6	3320.6	3297.0	2640.6
27.5°	2813.2	2813.2	2762.4	2723.5	2669.4	2826.7	3280.0	3897.5	3724.9	3692.8	2814.8
30°	3022.9	3034.8	3028.0	2945.1	2911.3	2968.8	3435.7	4347.4	4188.4	4147.8	3102.4
32.5°	3332.5	3307.1	3335.9	3266.5	3166.7	3217.4	3680.9	4750.0	4790.6	4733.1	3479.6
35°	3741.8	3726.6	3708.0	3594.7	3476.3	3516.9	4027.7	5245.7	5546.8	5518.0	3860.3
37.5°	4108.9	4100.5	4085.2	4007.4	3870.4	3919.5	4421.9	5761.6	6284.3	6189.6	4398.2
40°	4494.6	4540.3	4491.2	4421.9	4296.7	4405.0	4885.4	6067.8	6905.2	6790.1	4809.3
42.5°	5017.3	4981.8	5003.8	4876.9	4809.3	4927.7	5350.6	6374.0	7387.3	7250.2	5245.7
45°	5573.9	5575.6	5516.3	5475.7	5299.8	5428.4	5636.5	6543.2	7771.3	7664.7	5575.6
47.5°	5930.8	5929.1	5993.4	6057.7	5876.7	5749.8	5831.0	6703.9	7969.2	7920.1	5695.7
50°	5875.0	5891.9	5974.8	6215.0	6309.7	6138.9	6013.7	6656.5	8058.8	8053.8	5798.8
52.5°	5110.4	5166.2	5304.9	5651.7	6128.7	6340.2	6204.8	6744.5	8102.8	8111.3	5952.8
55°	3890.7	3921.2	4185.0	4606.3	5134.0	5858.1	6128.7	6813.8	8136.7	8151.9	6138.9
56°	3374.8	3293.6	3674.2	3973.6	4604.6	5396.2	5935.9	6759.7	8116.4	8233.1	6231.9
57.5°	2547.6	2493.4	2801.3	3175.2	3782.4	4618.1	5337.0	6504.2	7979.3	7977.6	6098.3
60°	1549.5	1495.4	1732.2	1952.1	2292.1	2843.6	3606.5	5179.7	6746.1	6888.2	4937.8
62.5°	921.9	955.8	1189.2	1322.8	1432.8	1490.3	1865.8	3078.7	4501.4	4602.9	3063.5
65°	614.1	625.9	801.8	1021.7	1070.8	852.6	759.5	1246.7	1952.1	1889.5	1263.6
67.5°	378.9	406.0	537.9	768.0	850.9	622.5	360.3	465.2	537.9	537.9	365.4
70°	230.1	243.6	358.6	522.7	583.6	400.9	262.2	262.2	258.8	253.7	218.2
72.5°	110.0	118.4	182.7	269.0	274.0	211.5	203.0	221.6	216.5	214.8	181.0
75°	47.4	50.7	64.3	84.6	96.4	89.7	123.5	159.0	164.1	159.0	130.3
77.5°	15.2	16.9	23.7	30.4	32.1	38.9	52.4	66.0	76.1	71.0	64.3
80°	1.7	3.4	6.8	15.2	23.7	30.4	38.9	44.0	49.1	49.1	45.7
82.5°	1.7	1.7	6.8	13.5	22.0	28.8	37.2	42.3	49.1	50.7	47.4
85°	0.0	1.7	5.1	11.8	18.6	18.6	16.9	16.9	11.8	11.8	11.8
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5	1527.5
2.5°	1541.1	1537.7	1492.0	1463.2	1448.0	1417.6	1399.0	1385.4	1375.3	1363.4	1365.1
5°	1561.4	1549.5	1473.4	1421.0	1358.4	1324.5	1295.8	1272.1	1256.9	1253.5	1246.7
7.5°	1618.9	1556.3	1441.3	1346.5	1267.0	1233.2	1207.8	1192.6	1199.4	1184.1	1196.0
10°	1662.9	1569.8	1402.3	1265.3	1185.8	1160.4	1146.9	1158.8	1175.7	1168.9	1160.4
12.5°	1717.0	1583.3	1339.8	1187.5	1113.1	1094.5	1118.2	1140.1	1174.0	1187.5	1170.6
15°	1777.9	1598.6	1260.3	1097.9	1050.5	1065.7	1106.3	1145.2	1179.1	1196.0	1206.1
17.5°	1852.3	1593.5	1182.4	1026.8	991.3	1035.3	1084.3	1119.8	1170.6	1196.0	1189.2
20°	1921.7	1576.6	1096.2	955.8	957.5	998.1	1038.6	1096.2	1123.2	1157.1	1145.2
22.5°	1987.6	1546.1	1006.5	906.7	906.7	969.3	989.6	1026.8	1050.5	1067.4	1065.7
25°	2080.7	1488.6	932.1	859.3	879.6	920.2	937.2	949.0	938.8	952.4	954.1
27.5°	2146.7	1429.4	871.2	817.0	854.3	884.7	879.6	872.9	849.2	830.6	842.4
30°	2217.7	1360.1	818.7	788.3	808.6	835.7	815.4	795.1	757.8	727.4	729.1
32.5°	2319.2	1327.9	773.1	754.5	781.5	784.9	762.9	732.5	695.3	666.5	664.8
35°	2508.7	1307.6	734.2	732.5	737.5	739.2	717.2	680.0	664.8	641.1	649.6
37.5°	2698.1	1297.5	707.1	700.3	698.6	700.3	675.0	639.4	668.2	666.5	669.9
40°	2940.0	1343.1	668.2	659.7	661.4	661.4	629.3	619.1	669.9	675.0	676.6
42.5°	3185.3	1400.7	642.8	615.7	622.5	622.5	605.6	593.8	629.3	595.4	590.4
45°	3398.4	1485.2	615.7	571.8	588.7	597.1	592.1	571.8	549.8	492.3	492.3
47.5°	3467.8	1559.7	583.6	529.5	543.0	580.2	565.0	522.7	483.8	436.4	433.1
50°	3589.6	1640.9	558.2	480.4	509.2	554.8	539.6	497.3	453.4	419.5	421.2
52.5°	3714.8	1733.9	510.9	422.9	458.4	534.5	534.5	487.2	419.5	395.8	392.5
55°	3902.5	1730.5	426.3	346.8	409.4	504.1	512.6	436.4	375.5	356.9	356.9
56°	3929.6	1652.7	384.0	324.8	387.4	495.6	497.3	422.9	358.6	338.3	338.3
57.5°	3726.6	1492.0	336.6	297.7	360.3	480.4	482.1	411.1	345.1	316.3	312.9
60°	2867.3	1009.9	280.8	265.6	326.5	433.1	441.5	373.8	302.8	280.8	279.1
62.5°	1618.9	559.9	247.0	240.2	280.8	368.8	394.1	326.5	257.1	245.3	248.7
65°	739.2	307.9	208.1	194.5	226.7	284.2	318.0	269.0	211.5	197.9	197.9
67.5°	270.7	209.8	177.6	153.9	159.0	184.4	206.4	174.2	140.4	120.1	125.2
70°	192.8	175.9	155.6	133.6	123.5	120.1	118.4	98.1	69.4	54.1	57.5
72.5°	155.6	145.5	130.3	113.3	96.4	81.2	69.4	50.7	32.1	22.0	20.3
75°	111.6	106.6	94.7	81.2	67.7	57.5	47.4	32.1	16.9	8.5	8.5
77.5°	57.5	57.5	55.8	50.7	42.3	33.8	27.1	18.6	10.1	3.4	3.4
80°	44.0	47.4	49.1	44.0	38.9	30.4	22.0	13.5	6.8	1.7	1.7
82.5°	42.3	49.1	52.4	45.7	38.9	28.8	22.0	13.5	6.8	1.7	1.7
85°	10.1	10.1	15.2	16.9	22.0	23.7	18.6	11.8	5.1	1.7	1.7
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	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)