

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: P530891

Luminaire Tested: **GALN-SA6A-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530891  
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-SA6A-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA 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: 11760 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

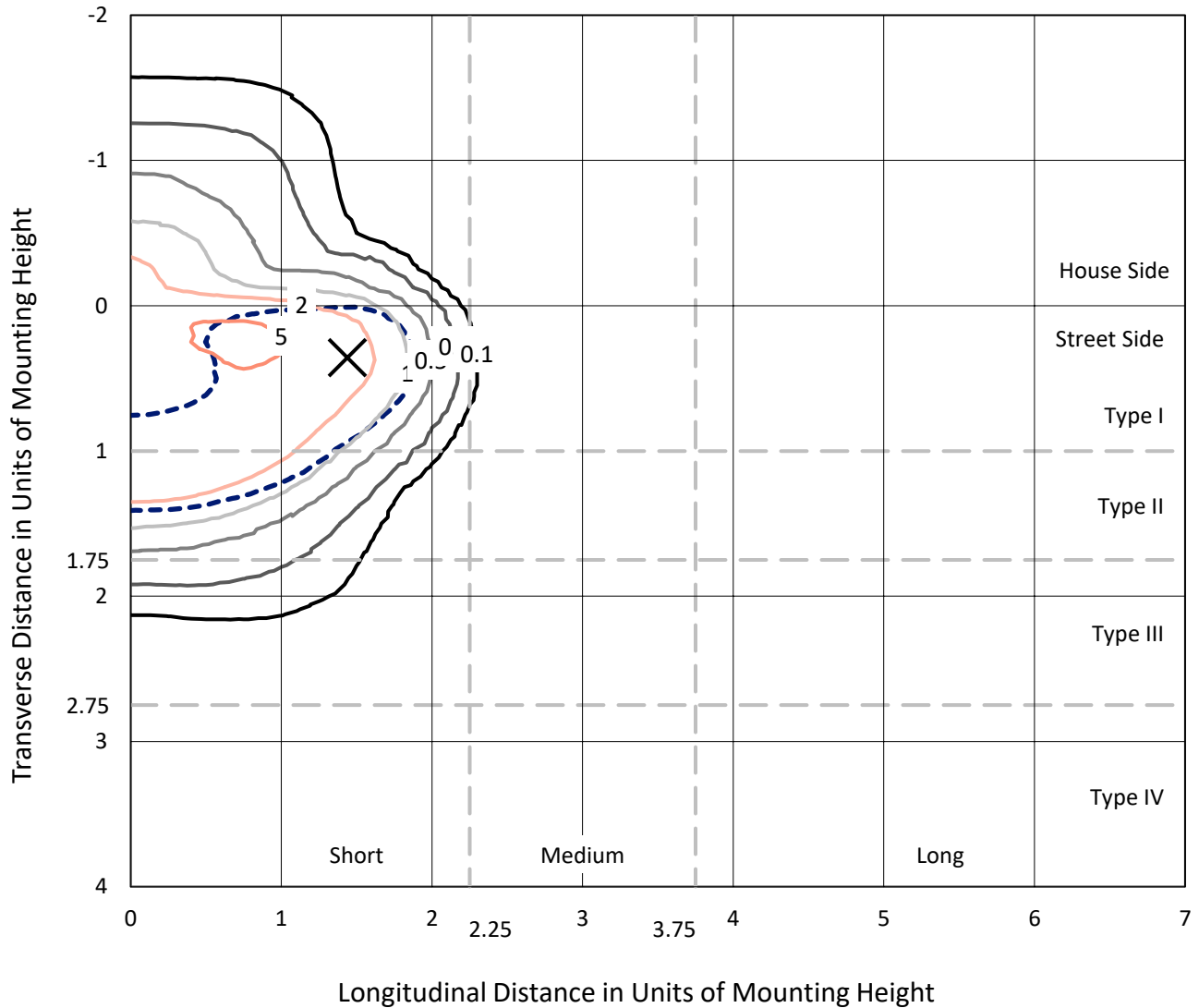
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

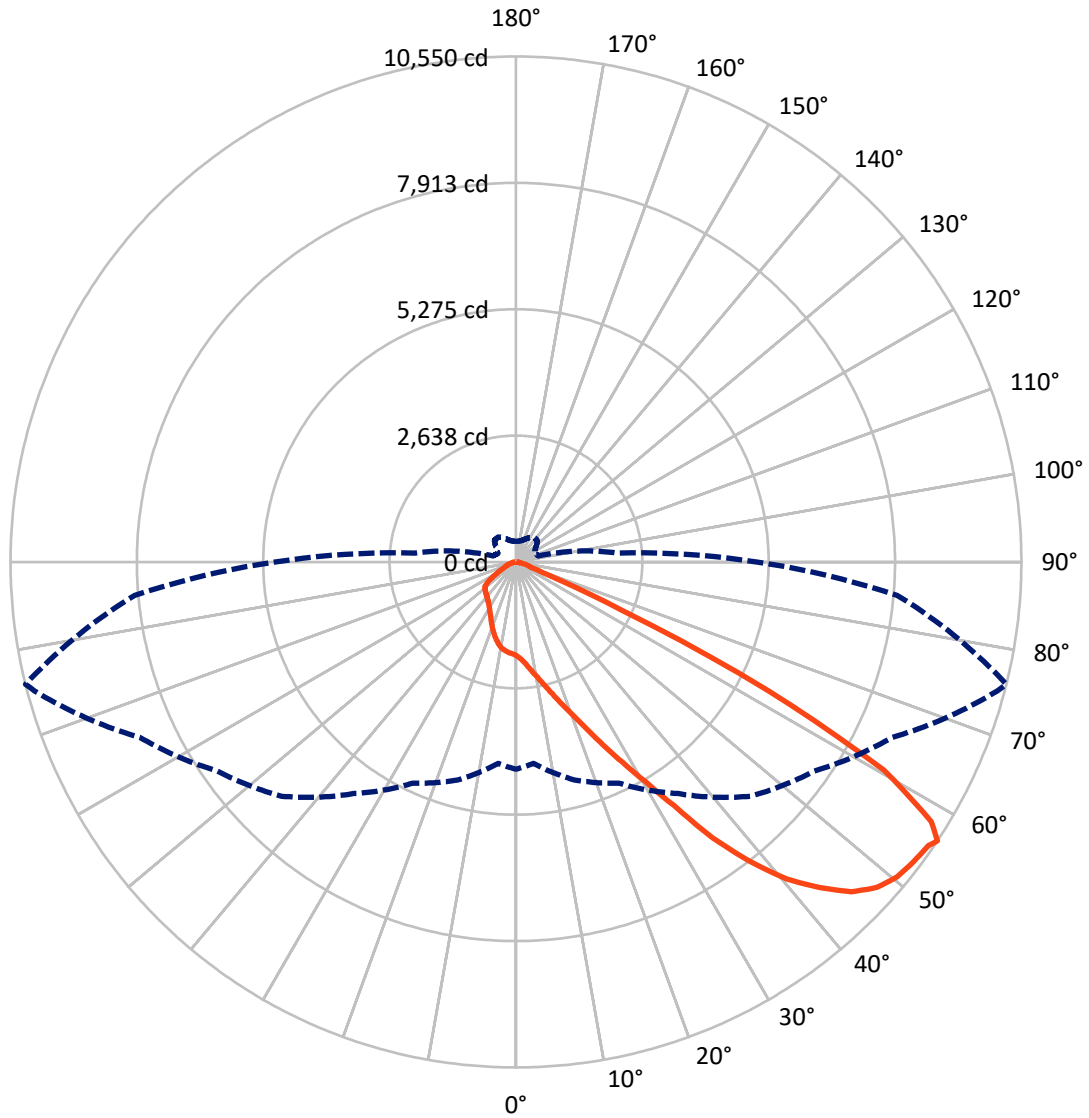
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	1847.4	0.0	1847.4
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	9912.6	0.0	9912.6
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	11760.0	0.0	11760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.2	1.7
10°-20°	633.5	5.4
20°-30°	1148.7	9.8
30°-40°	1981.0	16.8
40°-50°	3218.1	27.4
50°-60°	3392.0	28.8
60°-70°	1036.4	8.8
70°-80°	132.9	1.1
80°-90°	20.2	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°	11760.0	100.0
0°-180°	11760.0	100.0

**Coefficient of Utilization**

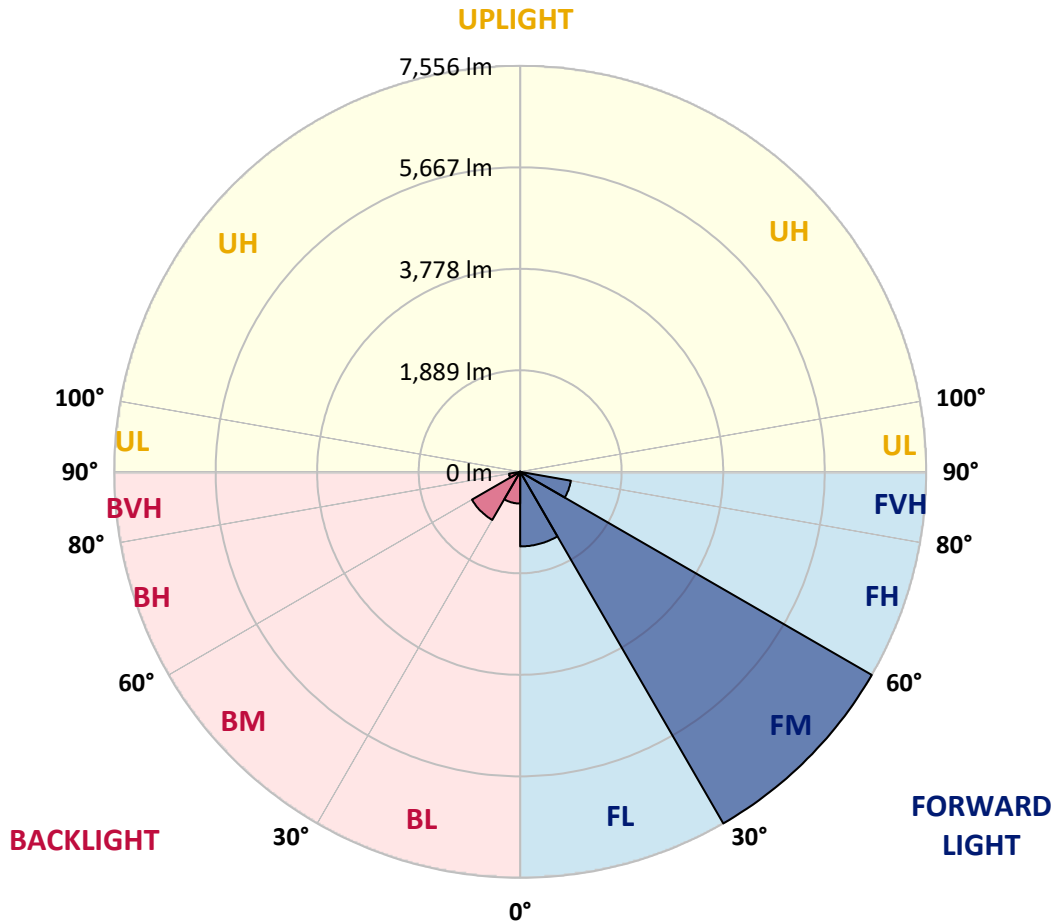


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.4	11.8			
FM (30°-60°)	7555.8	64.2			
FH (60°-80°)	958.5	8.2			G1/1800
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	591.0	5.0	B2/1000		
BM (30°-60°)	1035.4	8.8	B2/2500		
BH (60°-80°)	210.8	1.8	B1/500		G1/500
BVH (80°-90°)	10.3	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°	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5
2.5°	2254.5	2202.4	2204.6	2200.3	2193.8	2169.9	2098.4	2087.5	2039.8	2026.8	1983.5
5°	2525.4	2479.9	2505.9	2466.9	2430.0	2408.4	2291.3	2237.1	2161.2	2133.1	2072.4
7.5°	2694.5	2672.8	2664.2	2666.3	2631.6	2577.4	2525.4	2406.2	2304.3	2282.6	2154.7
10°	2776.9	2763.9	2776.9	2770.4	2785.5	2792.0	2701.0	2629.5	2479.9	2443.0	2243.6
12.5°	2796.4	2822.4	2833.2	2861.4	2898.3	2961.1	2954.6	2857.1	2657.6	2633.8	2380.2
15°	2844.1	2865.8	2854.9	2900.4	2969.8	3076.0	3132.4	3117.2	2902.6	2859.2	2538.4
17.5°	2887.4	2848.4	2885.3	2976.3	3045.7	3208.3	3344.8	3407.7	3169.2	3119.4	2683.7
20°	2946.0	2935.1	2928.6	2974.1	3097.7	3314.5	3585.4	3700.3	3468.4	3416.4	2891.8
22.5°	3123.7	3125.9	3121.5	3054.3	3143.2	3388.2	3795.7	4079.7	3826.1	3782.7	3128.0
25°	3357.8	3329.6	3308.0	3253.8	3242.9	3455.4	4008.2	4543.6	4255.3	4224.9	3383.8
27.5°	3605.0	3605.0	3539.9	3490.1	3420.7	3622.3	4203.2	4994.5	4773.4	4732.2	3607.1
30°	3873.8	3888.9	3880.3	3774.0	3730.7	3804.4	4402.7	5571.1	5367.3	5315.3	3975.6
32.5°	4270.4	4237.9	4274.8	4185.9	4058.0	4123.0	4717.0	6087.0	6139.0	6065.3	4459.0
35°	4795.0	4775.5	4751.7	4606.4	4454.7	4506.7	5161.4	6722.2	7108.0	7071.2	4946.8
37.5°	5265.4	5254.6	5235.1	5135.4	4959.8	5022.7	5666.5	7383.3	8053.2	7931.8	5636.1
40°	5759.7	5818.2	5755.4	5666.5	5506.1	5644.8	6260.4	7775.7	8848.7	8701.3	6162.9
42.5°	6429.5	6384.0	6412.2	6249.6	6162.9	6314.6	6856.6	8168.0	9466.5	9290.9	6722.2
45°	7142.7	7144.9	7069.0	7017.0	6791.5	6956.3	7222.9	8384.8	9958.6	9822.0	7144.9
47.5°	7600.1	7597.9	7680.3	7762.7	7530.7	7368.1	7472.2	8590.8	10212.2	10149.4	7298.8
50°	7528.6	7550.2	7656.5	7964.3	8085.7	7866.7	7706.3	8530.1	10327.1	10320.6	7431.0
52.5°	6548.7	6620.3	6798.0	7242.4	7853.7	8124.7	7951.3	8642.8	10383.5	10394.3	7628.3
55°	4985.8	5024.8	5363.0	5902.8	6579.1	7506.9	7853.7	8731.7	10426.8	10446.3	7866.7
56°	4324.6	4220.6	4708.3	5092.0	5900.6	6915.1	7606.6	8662.3	10400.8	10550.4	7986.0
57.5°	3264.6	3195.2	3589.8	4068.8	4847.1	5917.9	6839.2	8335.0	10225.2	10223.1	7814.7
60°	1985.7	1916.3	2219.8	2501.6	2937.3	3644.0	4621.6	6637.6	8644.9	8827.0	6327.6
62.5°	1181.4	1224.8	1523.9	1695.2	1836.1	1909.8	2391.0	3945.3	5768.4	5898.4	3925.8
65°	786.9	802.1	1027.5	1309.3	1372.2	1092.5	973.3	1597.6	2501.6	2421.4	1619.3
67.5°	485.6	520.3	689.3	984.2	1090.4	797.7	461.7	596.1	689.3	689.3	468.2
70°	294.8	312.2	459.6	669.8	747.9	513.8	336.0	336.0	331.7	325.2	279.6
72.5°	140.9	151.7	234.1	344.7	351.2	271.0	260.1	284.0	277.5	275.3	231.9
75°	60.7	65.0	82.4	108.4	123.6	114.9	158.2	203.8	210.3	203.8	166.9
77.5°	19.5	21.7	30.3	39.0	41.2	49.9	67.2	84.5	97.5	91.0	82.4
80°	2.2	4.3	8.7	19.5	30.3	39.0	49.9	56.4	62.9	62.9	58.5
82.5°	2.2	2.2	8.7	17.3	28.2	36.9	47.7	54.2	62.9	65.0	60.7
85°	0.0	2.2	6.5	15.2	23.8	23.8	21.7	21.7	15.2	15.2	15.2
87.5°	0.0	0.0	2.2	2.2	2.2	4.3	4.3	4.3	4.3	4.3	4.3
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°	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5	1957.5
2.5°	1974.8	1970.5	1911.9	1875.1	1855.6	1816.6	1792.7	1775.4	1762.4	1747.2	1749.4
5°	2000.8	1985.7	1888.1	1820.9	1740.7	1697.3	1660.5	1630.1	1610.6	1606.3	1597.6
7.5°	2074.5	1994.3	1846.9	1725.5	1623.6	1580.3	1547.8	1528.3	1536.9	1517.4	1532.6
10°	2130.9	2011.7	1797.1	1621.5	1519.6	1487.1	1469.7	1484.9	1506.6	1497.9	1487.1
12.5°	2200.3	2029.0	1716.9	1521.8	1426.4	1402.5	1432.9	1461.1	1504.4	1521.8	1500.1
15°	2278.3	2048.5	1615.0	1406.9	1346.2	1365.7	1417.7	1467.6	1510.9	1532.6	1545.6
17.5°	2373.7	2042.0	1515.3	1315.8	1270.3	1326.7	1389.5	1435.0	1500.1	1532.6	1523.9
20°	2462.6	2020.3	1404.7	1224.8	1226.9	1279.0	1331.0	1404.7	1439.4	1482.7	1467.6
22.5°	2547.1	1981.3	1289.8	1161.9	1161.9	1242.1	1268.1	1315.8	1346.2	1367.8	1365.7
25°	2666.3	1907.6	1194.4	1101.2	1127.2	1179.3	1200.9	1216.1	1203.1	1220.4	1222.6
27.5°	2750.9	1831.7	1116.4	1047.0	1094.7	1133.7	1127.2	1118.6	1088.2	1064.4	1079.5
30°	2841.9	1742.9	1049.2	1010.2	1036.2	1070.9	1044.9	1018.8	971.1	932.1	934.3
32.5°	2972.0	1701.7	990.7	966.8	1001.5	1005.8	977.7	938.6	890.9	854.1	851.9
35°	3214.8	1675.7	940.8	938.6	945.1	947.3	919.1	871.4	851.9	821.6	832.4
37.5°	3457.5	1662.7	906.1	897.4	895.3	897.4	864.9	819.4	856.3	854.1	858.4
40°	3767.5	1721.2	856.3	845.4	847.6	847.6	806.4	793.4	858.4	864.9	867.1
42.5°	4081.9	1794.9	823.7	789.1	797.7	797.7	776.1	760.9	806.4	763.0	756.5
45°	4355.0	1903.3	789.1	732.7	754.4	765.2	758.7	732.7	704.5	630.8	630.8
47.5°	4443.9	1998.7	747.9	678.5	695.8	743.5	724.0	669.8	620.0	559.3	554.9
50°	4599.9	2102.7	715.4	615.6	652.5	711.0	691.5	637.3	581.0	537.6	539.8
52.5°	4760.4	2221.9	654.7	541.9	587.5	685.0	685.0	624.3	537.6	507.3	502.9
55°	5001.0	2217.6	546.3	444.4	524.6	646.0	656.8	559.3	481.2	457.4	457.4
56°	5035.7	2117.9	492.1	416.2	496.4	635.1	637.3	541.9	459.6	433.5	433.5
57.5°	4775.5	1911.9	431.4	381.5	461.7	615.6	617.8	526.8	442.2	405.4	401.0
60°	3674.3	1294.1	359.8	340.3	418.4	554.9	565.8	479.1	388.0	359.8	357.7
62.5°	2074.5	717.5	316.5	307.8	359.8	472.6	505.1	418.4	329.5	314.3	318.7
65°	947.3	394.5	266.6	249.3	290.5	364.2	407.5	344.7	271.0	253.6	253.6
67.5°	346.8	268.8	227.6	197.3	203.8	236.3	264.5	223.3	179.9	153.9	160.4
70°	247.1	225.4	199.4	171.3	158.2	153.9	151.7	125.7	88.9	69.4	73.7
72.5°	199.4	186.4	166.9	145.2	123.6	104.1	88.9	65.0	41.2	28.2	26.0
75°	143.1	136.6	121.4	104.1	86.7	73.7	60.7	41.2	21.7	10.8	10.8
77.5°	73.7	73.7	71.5	65.0	54.2	43.4	34.7	23.8	13.0	4.3	4.3
80°	56.4	60.7	62.9	56.4	49.9	39.0	28.2	17.3	8.7	2.2	2.2
82.5°	54.2	62.9	67.2	58.5	49.9	36.9	28.2	17.3	8.7	2.2	2.2
85°	13.0	13.0	19.5	21.7	28.2	30.3	23.8	15.2	6.5	2.2	2.2
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.2	2.2	2.2	2.2	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)