

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: P529721

Luminaire Tested: **GALN-SA4D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529721  
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-SA4D-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 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: 13271 lumens  
Efficiency: N/A  
Efficacy: 54.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

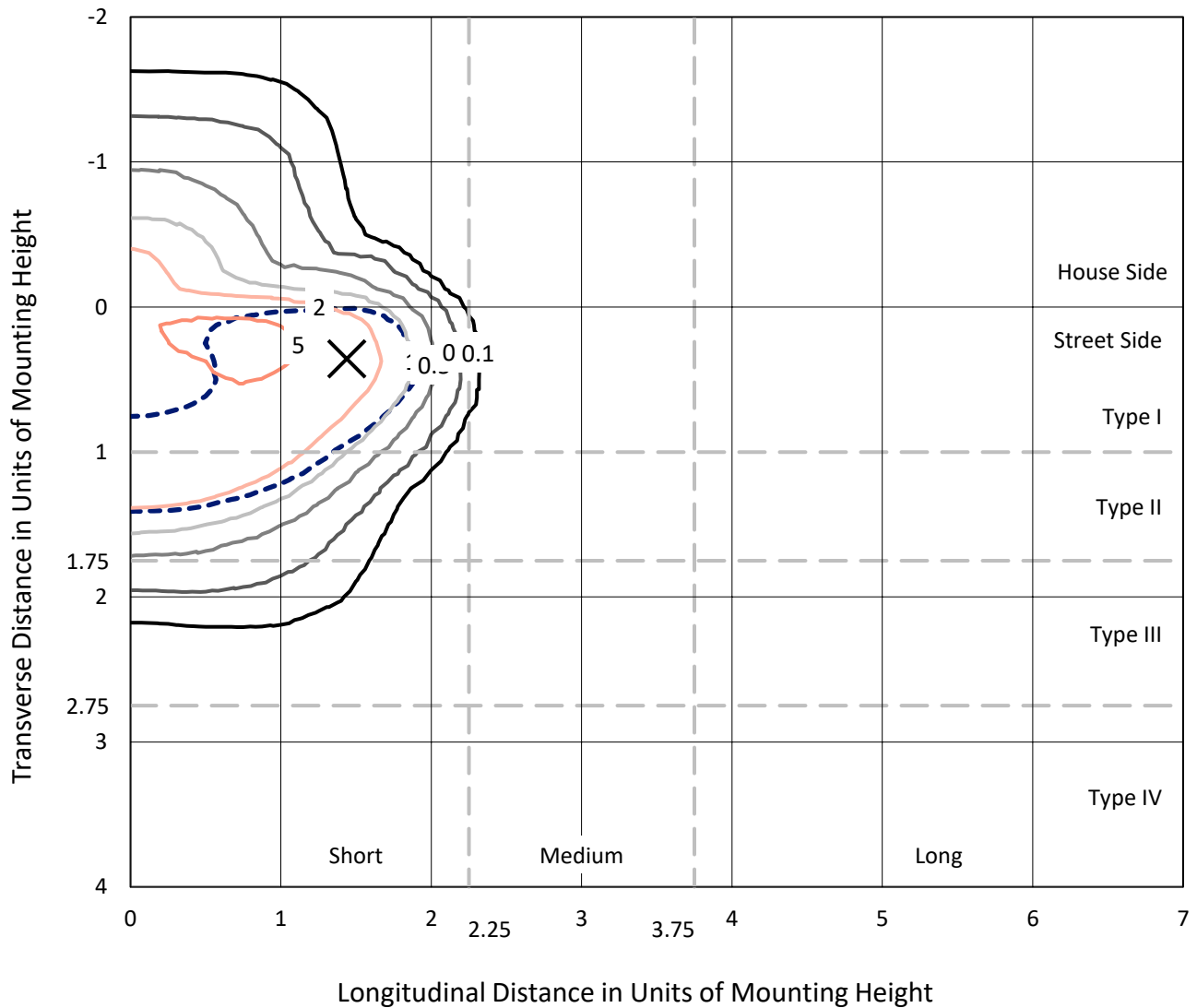
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

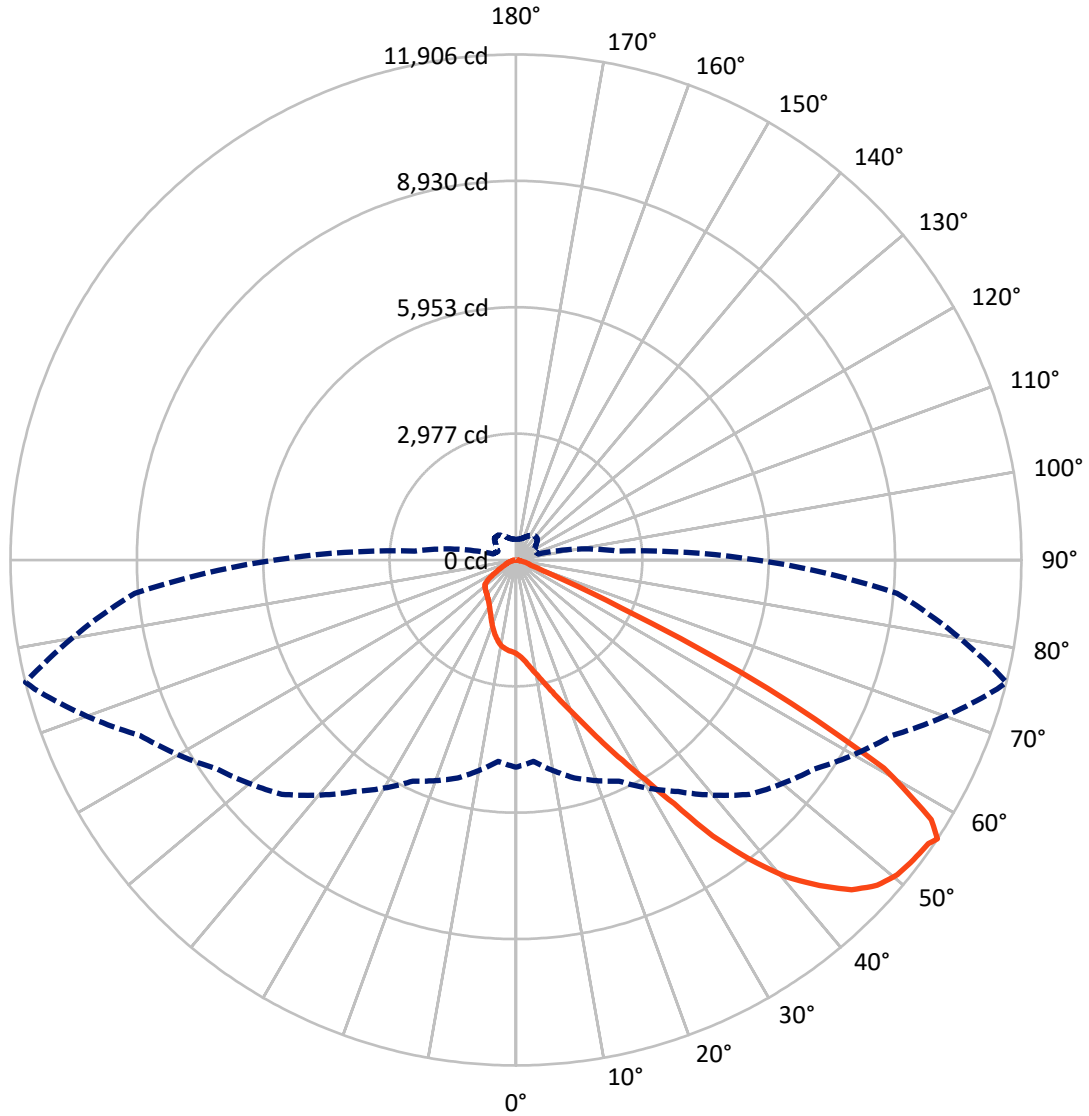
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2084.8	0.0	2084.8
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	11186.2	0.0	11186.2
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	13271.0	0.0	13271.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.5	1.7
10°-20°	714.9	5.4
20°-30°	1296.3	9.8
30°-40°	2235.5	16.8
40°-50°	3631.6	27.4
50°-60°	3827.9	28.8
60°-70°	1169.6	8.8
70°-80°	149.9	1.1
80°-90°	22.8	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°	13271.0	100.0
0°-180°	13271.0	100.0

**Coefficient of Utilization**



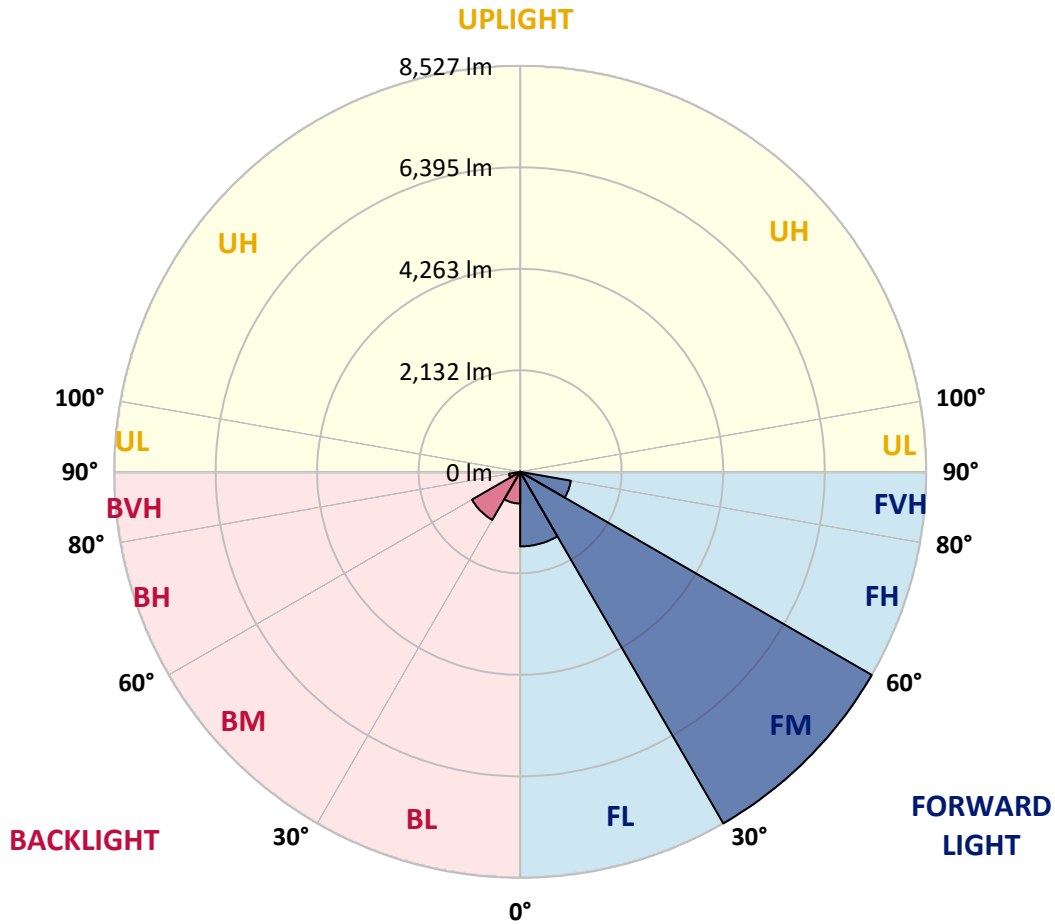
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.8	11.8			
FM (30°-60°)	8526.6	64.2			
FH (60°-80°)	1081.7	8.2			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	666.9	5.0	B2/1000		
BM (30°-60°)	1168.4	8.8	B2/2500		
BH (60°-80°)	237.8	1.8	B1/500		G1/500
BVH (80°-90°)	11.6	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°	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0
2.5°	2544.1	2485.4	2487.9	2483.0	2475.6	2448.7	2368.0	2355.8	2301.9	2287.3	2238.3
5°	2849.9	2798.5	2827.9	2783.9	2742.3	2717.8	2585.7	2524.5	2438.9	2407.1	2338.6
7.5°	3040.7	3016.2	3006.5	3008.9	2969.8	2908.6	2849.9	2715.4	2600.4	2575.9	2431.6
10°	3133.7	3119.0	3133.7	3126.3	3143.5	3150.8	3048.0	2967.3	2798.5	2756.9	2531.9
12.5°	3155.7	3185.0	3197.3	3229.1	3270.7	3341.6	3334.3	3224.2	2999.1	2972.2	2686.0
15°	3209.5	3234.0	3221.7	3273.1	3351.4	3471.3	3534.9	3517.7	3275.5	3226.6	2864.6
17.5°	3258.4	3214.4	3256.0	3358.7	3437.0	3620.5	3774.6	3845.5	3576.4	3520.2	3028.5
20°	3324.5	3312.2	3304.9	3356.3	3495.7	3740.3	4046.1	4175.8	3914.0	3855.3	3263.3
22.5°	3525.1	3527.5	3522.6	3446.8	3547.1	3823.5	4283.4	4603.9	4317.7	4268.7	3530.0
25°	3789.3	3757.5	3733.0	3671.8	3659.6	3899.3	4523.1	5127.4	4802.0	4767.8	3818.6
27.5°	4068.1	4068.1	3994.8	3938.5	3860.2	4087.7	4743.3	5636.2	5386.7	5340.2	4070.6
30°	4371.5	4388.6	4378.8	4258.9	4210.0	4293.2	4968.4	6286.9	6057.0	5998.2	4486.5
32.5°	4819.1	4782.4	4824.0	4723.7	4579.4	4652.8	5323.1	6869.1	6927.8	6844.7	5032.0
35°	5411.1	5389.1	5362.2	5198.3	5027.1	5085.8	5824.6	7585.9	8021.3	7979.7	5582.4
37.5°	5942.0	5929.7	5907.7	5795.2	5597.1	5668.0	6394.5	8332.0	9087.9	8950.9	6360.3
40°	6499.7	6565.8	6494.8	6394.5	6213.5	6370.1	7064.8	8774.8	9985.7	9819.3	6954.7
42.5°	7255.6	7204.3	7236.1	7052.6	6954.7	7126.0	7737.5	9217.5	10682.8	10484.7	7585.9
45°	8060.4	8062.9	7977.3	7918.6	7664.2	7850.1	8151.0	9462.2	11238.1	11084.0	8062.9
47.5°	8576.6	8574.2	8667.1	8760.1	8498.3	8314.9	8432.3	9694.6	11524.4	11453.4	8236.6
50°	8495.9	8520.3	8640.2	8987.6	9124.6	8877.5	8696.5	9626.1	11654.0	11646.7	8385.8
52.5°	7390.2	7470.9	7671.5	8173.0	8862.8	9168.6	8972.9	9753.3	11717.6	11729.8	8608.4
55°	5626.4	5670.4	6052.1	6661.2	7424.4	8471.4	8862.8	9853.6	11766.5	11788.6	8877.5
56°	4880.3	4762.9	5313.3	5746.3	6658.7	7803.6	8583.9	9775.3	11737.2	11906.0	9012.0
57.5°	3684.1	3605.8	4051.0	4591.6	5469.9	6678.3	7718.0	9405.9	11539.0	11536.6	8818.8
60°	2240.8	2162.5	2505.0	2823.0	3314.7	4112.2	5215.4	7490.5	9755.7	9961.2	7140.6
62.5°	1333.2	1382.1	1719.7	1913.0	2072.0	2155.2	2698.2	4452.2	6509.5	6656.3	4430.2
65°	888.0	905.1	1159.5	1477.5	1548.5	1232.9	1098.4	1802.9	2823.0	2732.5	1827.4
67.5°	548.0	587.1	777.9	1110.6	1230.5	900.2	521.1	672.7	777.9	777.9	528.4
70°	332.7	352.3	518.6	755.9	844.0	579.8	379.2	379.2	374.3	366.9	315.6
72.5°	159.0	171.2	264.2	389.0	396.3	305.8	293.6	320.5	313.1	310.7	261.8
75°	68.5	73.4	93.0	122.3	139.4	129.7	178.6	229.9	237.3	229.9	188.4
77.5°	22.0	24.5	34.2	44.0	46.5	56.3	75.8	95.4	110.1	102.7	93.0
80°	2.4	4.9	9.8	22.0	34.2	44.0	56.3	63.6	70.9	70.9	66.0
82.5°	2.4	2.4	9.8	19.6	31.8	41.6	53.8	61.2	70.9	73.4	68.5
85°	0.0	2.4	7.3	17.1	26.9	26.9	24.5	24.5	17.1	17.1	17.1
87.5°	0.0	0.0	2.4	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0
2.5°	2228.5	2223.7	2157.6	2116.0	2094.0	2050.0	2023.1	2003.5	1988.8	1971.7	1974.1
5°	2257.9	2240.8	2130.7	2054.9	1964.4	1915.4	1873.8	1839.6	1817.6	1812.7	1802.9
7.5°	2341.1	2250.6	2084.2	1947.2	1832.3	1783.3	1746.6	1724.6	1734.4	1712.4	1729.5
10°	2404.7	2270.1	2028.0	1829.8	1714.8	1678.1	1658.6	1675.7	1700.2	1690.4	1678.1
12.5°	2483.0	2289.7	1937.4	1717.3	1609.6	1582.7	1617.0	1648.8	1697.7	1717.3	1692.8
15°	2571.0	2311.7	1822.5	1587.6	1519.1	1541.1	1599.9	1656.1	1705.0	1729.5	1744.2
17.5°	2678.7	2304.4	1709.9	1484.9	1433.5	1497.1	1568.1	1619.4	1692.8	1729.5	1719.7
20°	2779.0	2279.9	1585.2	1382.1	1384.6	1443.3	1502.0	1585.2	1624.3	1673.2	1656.1
22.5°	2874.4	2235.9	1455.5	1311.2	1311.2	1401.7	1431.1	1484.9	1519.1	1543.6	1541.1
25°	3008.9	2152.7	1347.9	1242.7	1272.1	1330.8	1355.2	1372.4	1357.7	1377.2	1379.7
27.5°	3104.3	2067.1	1259.8	1181.5	1235.4	1279.4	1272.1	1262.3	1228.0	1201.1	1218.2
30°	3207.1	1966.8	1184.0	1140.0	1169.3	1208.5	1179.1	1149.7	1095.9	1051.9	1054.3
32.5°	3353.8	1920.3	1117.9	1091.0	1130.2	1135.1	1103.3	1059.2	1005.4	963.8	961.4
35°	3627.8	1891.0	1061.7	1059.2	1066.6	1069.0	1037.2	983.4	961.4	927.1	939.4
37.5°	3901.8	1876.3	1022.5	1012.8	1010.3	1012.8	976.1	924.7	966.3	963.8	968.7
40°	4251.6	1942.3	966.3	954.0	956.5	956.5	910.0	895.3	968.7	976.1	978.5
42.5°	4606.3	2025.5	929.6	890.4	900.2	900.2	875.8	858.6	910.0	861.1	853.7
45°	4914.5	2147.8	890.4	826.8	851.3	863.5	856.2	826.8	795.0	711.9	711.9
47.5°	5014.8	2255.5	844.0	765.7	785.3	839.1	817.1	755.9	699.6	631.1	626.2
50°	5191.0	2372.9	807.3	694.7	736.3	802.4	780.4	719.2	655.6	606.7	609.1
52.5°	5372.0	2507.4	738.8	611.6	662.9	773.0	773.0	704.5	606.7	572.4	567.5
55°	5643.5	2502.5	616.5	501.5	592.0	729.0	741.2	631.1	543.1	516.2	516.2
56°	5682.7	2390.0	555.3	469.7	560.2	716.8	719.2	611.6	518.6	489.3	489.3
57.5°	5389.1	2157.6	486.8	430.5	521.1	694.7	697.2	594.4	499.0	457.5	452.6
60°	4146.4	1460.4	406.1	384.1	472.1	626.2	638.5	540.6	437.9	406.1	403.6
62.5°	2341.1	809.7	357.2	347.4	406.1	533.3	570.0	472.1	371.8	354.7	359.6
65°	1069.0	445.2	300.9	281.3	327.8	411.0	459.9	389.0	305.8	286.2	286.2
67.5°	391.4	303.3	256.9	222.6	229.9	266.6	298.4	252.0	203.0	173.7	181.0
70°	278.9	254.4	225.1	193.3	178.6	173.7	171.2	141.9	100.3	78.3	83.2
72.5°	225.1	210.4	188.4	163.9	139.4	117.4	100.3	73.4	46.5	31.8	29.4
75°	161.5	154.1	137.0	117.4	97.9	83.2	68.5	46.5	24.5	12.2	12.2
77.5°	83.2	83.2	80.7	73.4	61.2	48.9	39.1	26.9	14.7	4.9	4.9
80°	63.6	68.5	70.9	63.6	56.3	44.0	31.8	19.6	9.8	2.4	2.4
82.5°	61.2	70.9	75.8	66.0	56.3	41.6	31.8	19.6	9.8	2.4	2.4
85°	14.7	14.7	22.0	24.5	31.8	34.2	26.9	17.1	7.3	2.4	2.4
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	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)