

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: P529305

Luminaire Tested: **GALN-SA4C-722-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529305
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-SA4C-722-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA 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: 12061 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

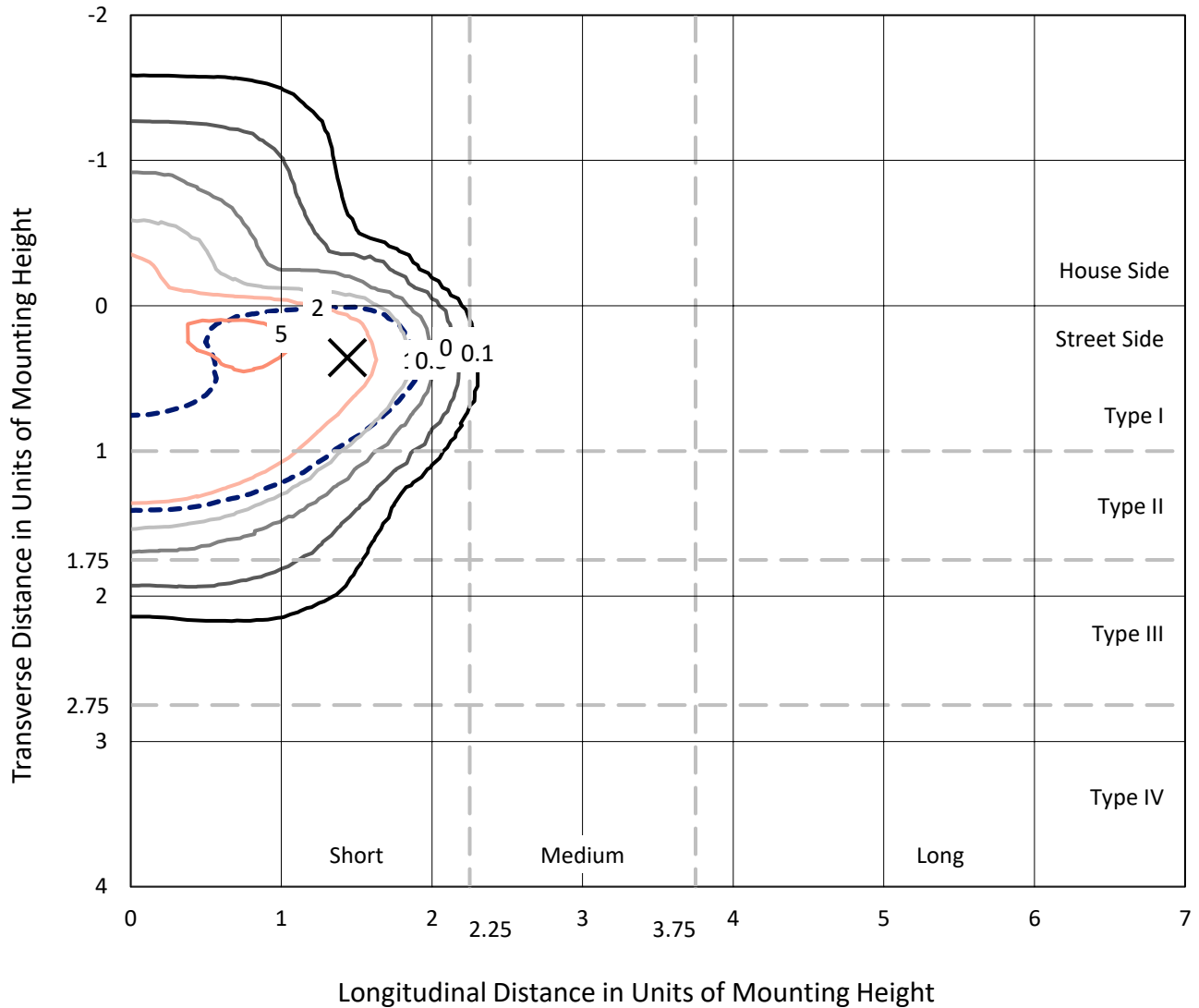
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

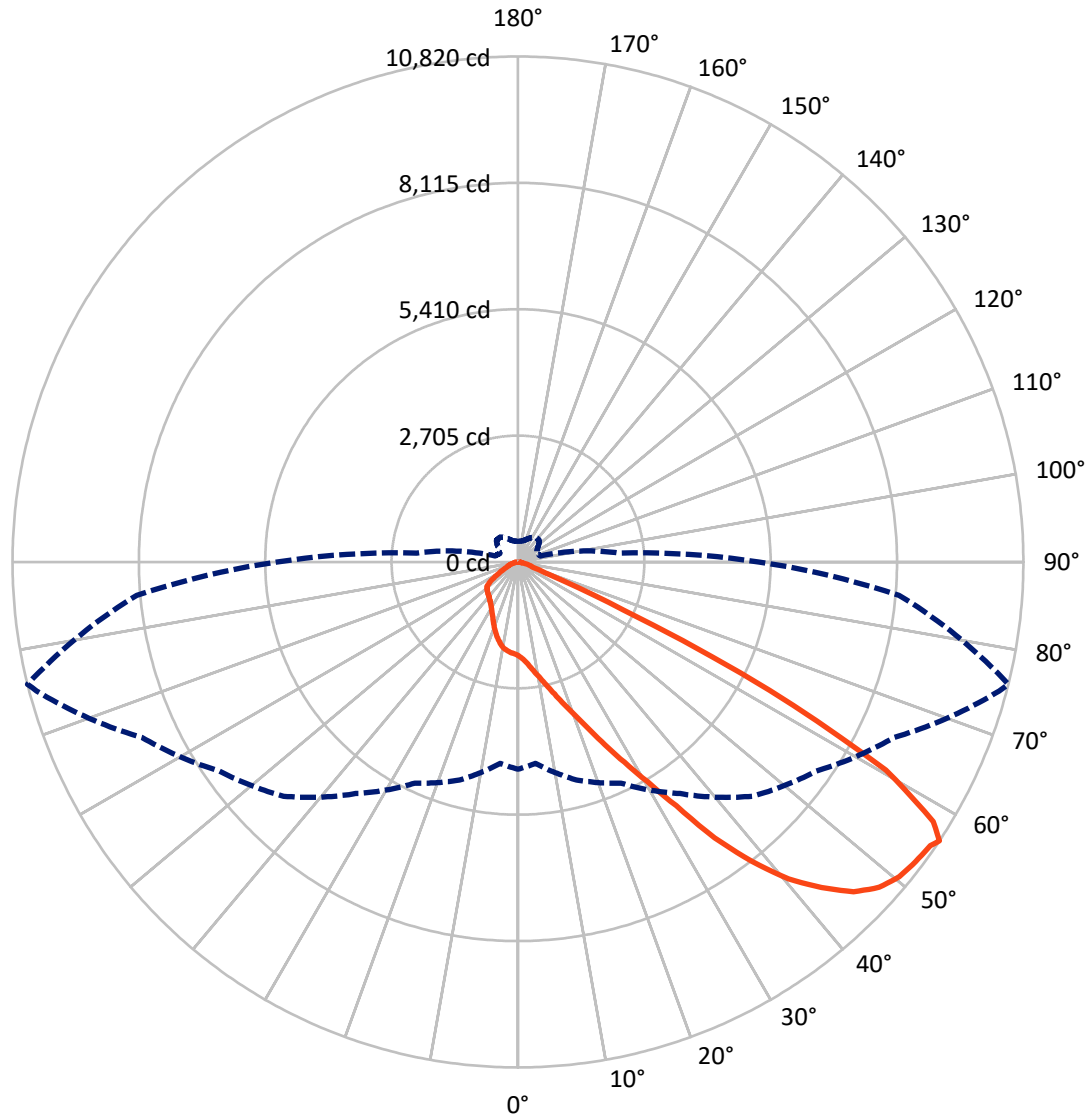
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	1894.7	0.0	1894.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10166.3	0.0	10166.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	12061.0	0.0	12061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	1.7
10°-20°	649.7	5.4
20°-30°	1178.1	9.8
30°-40°	2031.7	16.8
40°-50°	3300.5	27.4
50°-60°	3478.9	28.8
60°-70°	1062.9	8.8
70°-80°	136.3	1.1
80°-90°	20.7	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°	12061.0	100.0
0°-180°	12061.0	100.0

Coefficient of Utilization



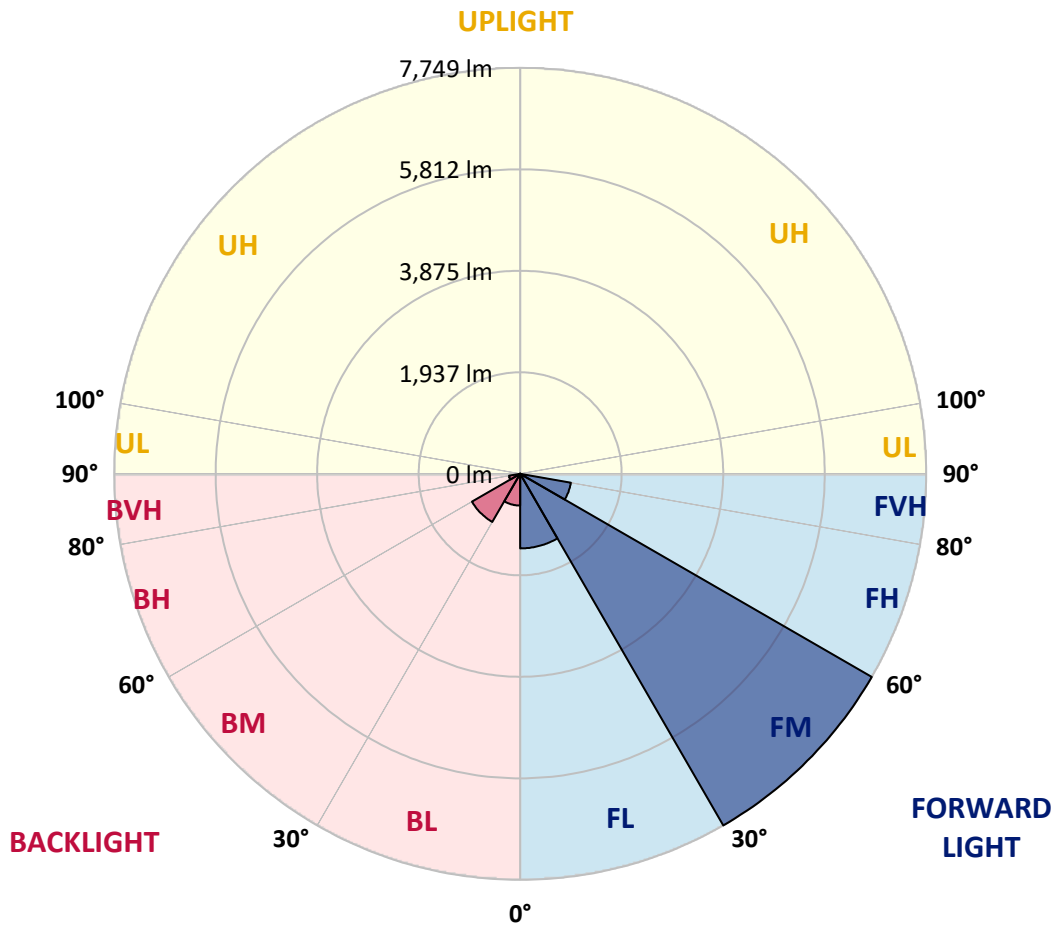
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.9	11.8			
FM (30°-60°)	7749.2	64.2			
FH (60°-80°)	983.0	8.2			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	606.1	5.0	B2/1000		
BM (30°-60°)	1061.9	8.8	B2/2500		
BH (60°-80°)	216.2	1.8	B1/500		G1/500
BVH (80°-90°)	10.6	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°	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6
2.5°	2312.2	2258.8	2261.0	2256.6	2249.9	2225.4	2152.1	2141.0	2092.1	2078.7	2034.3
5°	2590.1	2543.4	2570.0	2530.0	2492.2	2470.0	2349.9	2294.4	2216.6	2187.7	2125.4
7.5°	2763.5	2741.2	2732.3	2734.6	2699.0	2643.4	2590.1	2467.8	2363.3	2341.1	2209.9
10°	2848.0	2834.6	2848.0	2841.3	2856.8	2863.5	2770.1	2696.8	2543.4	2505.6	2301.0
12.5°	2868.0	2894.6	2905.8	2934.7	2972.5	3036.9	3030.3	2930.2	2725.7	2701.2	2441.1
15°	2916.9	2939.1	2928.0	2974.7	3045.8	3154.8	3212.6	3197.0	2976.9	2932.4	2603.4
17.5°	2961.3	2921.3	2959.1	3052.5	3123.6	3290.4	3430.4	3494.9	3250.4	3199.2	2752.4
20°	3021.4	3010.2	3003.6	3050.3	3177.0	3399.3	3677.2	3795.0	3557.2	3503.8	2965.8
22.5°	3203.7	3205.9	3201.4	3132.5	3223.7	3474.9	3892.9	4184.1	3924.0	3879.5	3208.1
25°	3443.8	3414.9	3392.6	3337.1	3325.9	3543.8	4110.7	4659.9	4364.2	4333.1	3470.5
27.5°	3697.2	3697.2	3630.5	3579.4	3508.2	3715.0	4310.8	5122.3	4895.5	4853.3	3699.4
30°	3972.9	3988.5	3979.6	3870.6	3826.2	3901.8	4515.4	5713.7	5504.7	5451.3	4077.4
32.5°	4379.8	4346.4	4384.2	4293.0	4161.9	4228.6	4837.7	6242.8	6296.2	6220.6	4573.2
35°	4917.8	4897.8	4873.3	4724.4	4568.7	4622.1	5293.5	6894.2	7290.0	7252.2	5073.4
37.5°	5400.2	5389.1	5369.1	5266.8	5086.7	5151.2	5811.5	7572.3	8259.3	8134.8	5780.4
40°	5907.1	5967.1	5902.7	5811.5	5647.0	5789.3	6420.7	7974.7	9075.2	8924.0	6320.6
42.5°	6594.1	6547.4	6576.3	6409.6	6320.6	6476.3	7032.1	8377.1	9708.8	9528.7	6894.2
45°	7325.5	7327.7	7249.9	7196.6	6965.4	7134.3	7407.8	8599.4	10213.5	10073.4	7327.7
47.5°	7794.6	7792.4	7876.9	7961.4	7723.5	7556.7	7663.5	8810.6	10473.6	10409.1	7485.6
50°	7721.3	7743.5	7852.4	8168.1	8292.6	8068.1	7903.6	8748.4	10591.4	10584.8	7621.2
52.5°	6716.4	6789.7	6972.0	7427.8	8054.7	8332.6	8154.8	8864.0	10649.2	10660.4	7823.5
55°	5113.4	5153.4	5500.3	6053.8	6747.5	7699.0	8054.7	8955.1	10693.7	10713.7	8068.1
56°	4435.3	4328.6	4828.8	5222.4	6051.6	7092.1	7801.3	8884.0	10667.0	10820.4	8190.4
57.5°	3348.2	3277.0	3681.7	4173.0	4971.1	6069.4	7014.3	8548.3	10486.9	10484.7	8014.7
60°	2036.5	1965.3	2276.6	2565.6	3012.5	3737.2	4739.9	6807.5	8866.2	9053.0	6489.6
62.5°	1211.7	1256.1	1562.9	1738.6	1883.1	1958.7	2452.2	4046.3	5916.0	6049.4	4026.3
65°	807.0	822.6	1053.8	1342.8	1407.3	1120.5	998.2	1638.5	2565.6	2483.3	1660.7
67.5°	498.0	533.6	707.0	1009.3	1118.3	818.1	473.5	611.4	707.0	707.0	480.2
70°	302.4	320.1	471.3	687.0	767.0	526.9	344.6	344.6	340.2	333.5	286.8
72.5°	144.5	155.6	240.1	353.5	360.2	277.9	266.8	291.2	284.6	282.3	237.9
75°	62.3	66.7	84.5	111.2	126.7	117.8	162.3	209.0	215.7	209.0	171.2
77.5°	20.0	22.2	31.1	40.0	42.2	51.1	68.9	86.7	100.0	93.4	84.5
80°	2.2	4.4	8.9	20.0	31.1	40.0	51.1	57.8	64.5	64.5	60.0
82.5°	2.2	2.2	8.9	17.8	28.9	37.8	48.9	55.6	64.5	66.7	62.3
85°	0.0	2.2	6.7	15.6	24.5	24.5	22.2	22.2	15.6	15.6	15.6
87.5°	0.0	0.0	2.2	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4
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°	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6	2007.6
2.5°	2025.4	2020.9	1960.9	1923.1	1903.1	1863.1	1838.6	1820.8	1807.5	1791.9	1794.1
5°	2052.0	2036.5	1936.4	1867.5	1785.2	1740.8	1703.0	1671.9	1651.9	1647.4	1638.5
7.5°	2127.6	2045.4	1894.2	1769.7	1665.2	1620.7	1587.4	1567.4	1576.3	1556.3	1571.8
10°	2185.4	2063.2	1843.1	1663.0	1558.5	1525.1	1507.3	1522.9	1545.1	1536.2	1525.1
12.5°	2256.6	2080.9	1760.8	1560.7	1462.9	1438.4	1469.6	1498.5	1542.9	1560.7	1538.5
15°	2336.6	2100.9	1656.3	1442.9	1380.6	1400.6	1454.0	1505.1	1549.6	1571.8	1585.2
17.5°	2434.4	2094.3	1554.0	1349.5	1302.8	1360.6	1425.1	1471.8	1538.5	1571.8	1562.9
20°	2525.6	2072.0	1440.6	1256.1	1258.3	1311.7	1365.1	1440.6	1476.2	1520.7	1505.1
22.5°	2612.3	2032.0	1322.8	1191.6	1191.6	1273.9	1300.6	1349.5	1380.6	1402.9	1400.6
25°	2734.6	1956.4	1225.0	1129.4	1156.1	1209.4	1231.7	1247.2	1233.9	1251.7	1253.9
27.5°	2821.3	1878.6	1145.0	1073.8	1122.7	1162.7	1156.1	1147.2	1116.1	1091.6	1107.2
30°	2914.6	1787.5	1076.0	1036.0	1062.7	1098.3	1071.6	1044.9	996.0	956.0	958.2
32.5°	3048.0	1745.2	1016.0	991.6	1027.1	1031.6	1002.7	962.7	913.7	876.0	873.7
35°	3297.0	1718.6	964.9	962.7	969.3	971.5	942.6	893.7	873.7	842.6	853.7
37.5°	3546.0	1705.2	929.3	920.4	918.2	920.4	887.1	840.4	878.2	876.0	880.4
40°	3864.0	1765.2	878.2	867.1	869.3	869.3	827.0	813.7	880.4	887.1	889.3
42.5°	4186.3	1840.8	844.8	809.3	818.1	818.1	795.9	780.4	827.0	782.6	775.9
45°	4466.5	1952.0	809.3	751.4	773.7	784.8	778.1	751.4	722.5	647.0	647.0
47.5°	4557.6	2049.8	767.0	695.9	713.7	762.6	742.6	687.0	635.8	573.6	569.1
50°	4717.7	2156.5	733.7	631.4	669.2	729.2	709.2	653.6	595.8	551.4	553.6
52.5°	4882.2	2278.8	671.4	555.8	602.5	702.5	702.5	640.3	551.4	520.2	515.8
55°	5129.0	2274.4	560.3	455.8	538.0	662.5	673.6	573.6	493.6	469.1	469.1
56°	5164.6	2172.1	504.7	426.9	509.1	651.4	653.6	555.8	471.3	444.6	444.6
57.5°	4897.8	1960.9	442.4	391.3	473.5	631.4	633.6	540.2	453.5	415.7	411.3
60°	3768.4	1327.3	369.1	349.0	429.1	569.1	580.3	491.3	398.0	369.1	366.8
62.5°	2127.6	735.9	324.6	315.7	369.1	484.7	518.0	429.1	337.9	322.4	326.8
65°	971.5	404.6	273.5	255.7	297.9	373.5	418.0	353.5	277.9	260.1	260.1
67.5°	355.7	275.7	233.4	202.3	209.0	242.3	271.2	229.0	184.5	157.8	164.5
70°	253.4	231.2	204.5	175.6	162.3	157.8	155.6	128.9	91.2	71.1	75.6
72.5°	204.5	191.2	171.2	149.0	126.7	106.7	91.2	66.7	42.2	28.9	26.7
75°	146.7	140.1	124.5	106.7	88.9	75.6	62.3	42.2	22.2	11.1	11.1
77.5°	75.6	75.6	73.4	66.7	55.6	44.5	35.6	24.5	13.3	4.4	4.4
80°	57.8	62.3	64.5	57.8	51.1	40.0	28.9	17.8	8.9	2.2	2.2
82.5°	55.6	64.5	68.9	60.0	51.1	37.8	28.9	17.8	8.9	2.2	2.2
85°	13.3	13.3	20.0	22.2	28.9	31.1	24.5	15.6	6.7	2.2	2.2
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	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)