

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: P532113

Luminaire Tested: **GALN-SA7C-722-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532113
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-SA7C-722-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21235 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

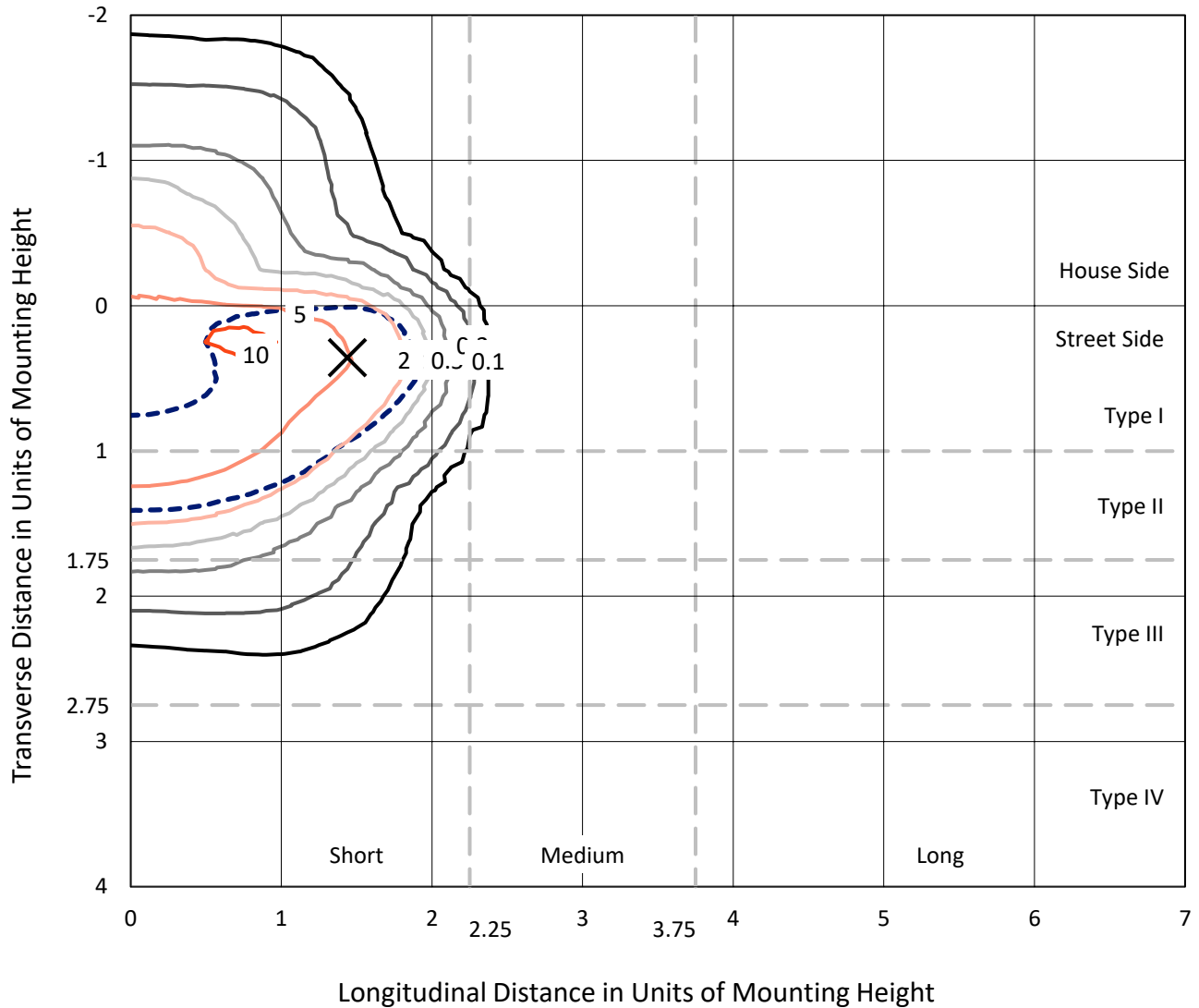
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

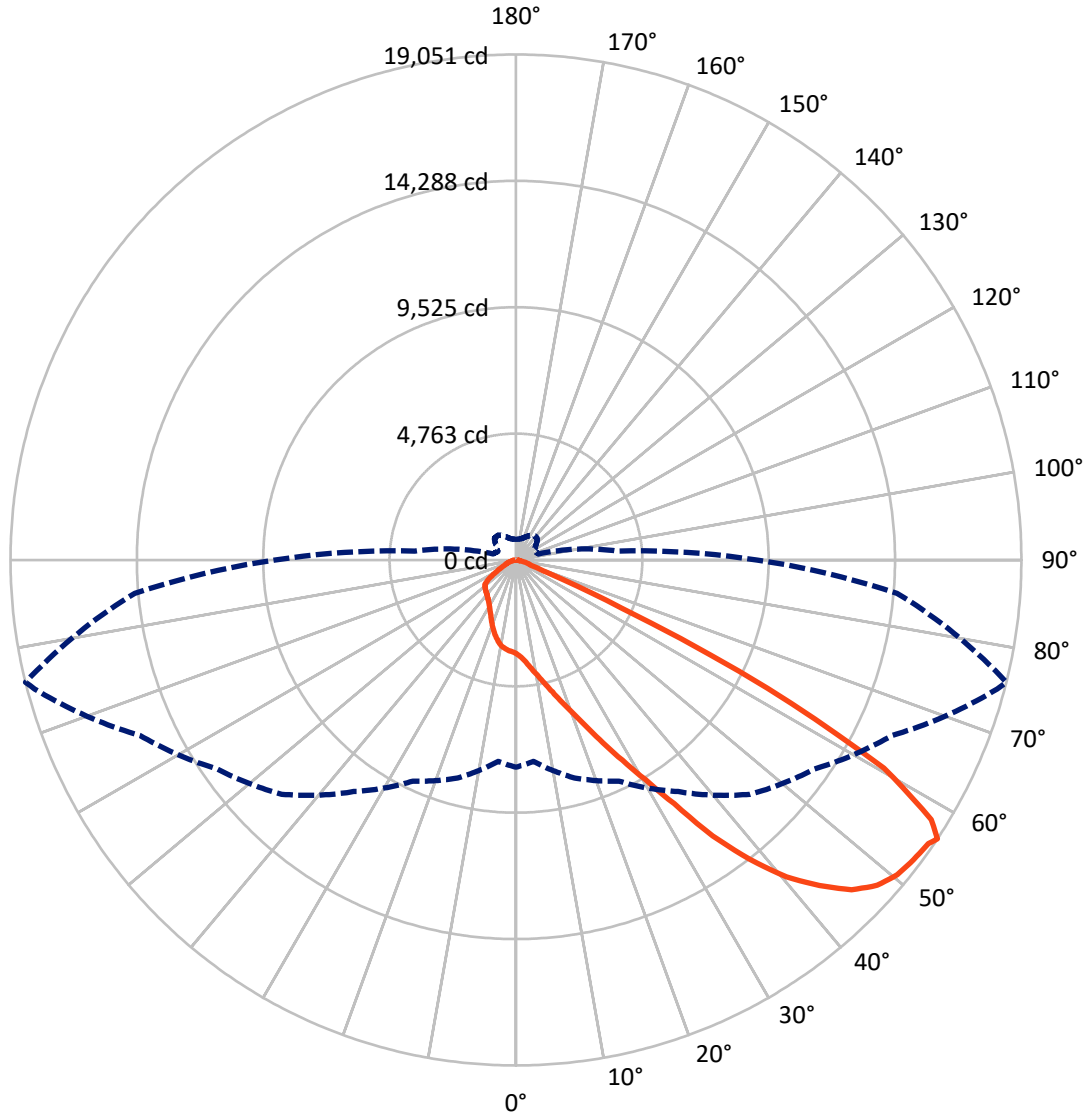
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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
House Side	Lumens	3335.9	0.0	3335.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17899.1	0.0	17899.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	21235.0	0.0	21235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.1	1.7
10°-20°	1143.9	5.4
20°-30°	2074.2	9.8
30°-40°	3577.0	16.8
40°-50°	5811.0	27.4
50°-60°	6125.0	28.8
60°-70°	1871.5	8.8
70°-80°	239.9	1.1
80°-90°	36.5	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°	21235.0	100.0
0°-180°	21235.0	100.0

Coefficient of Utilization

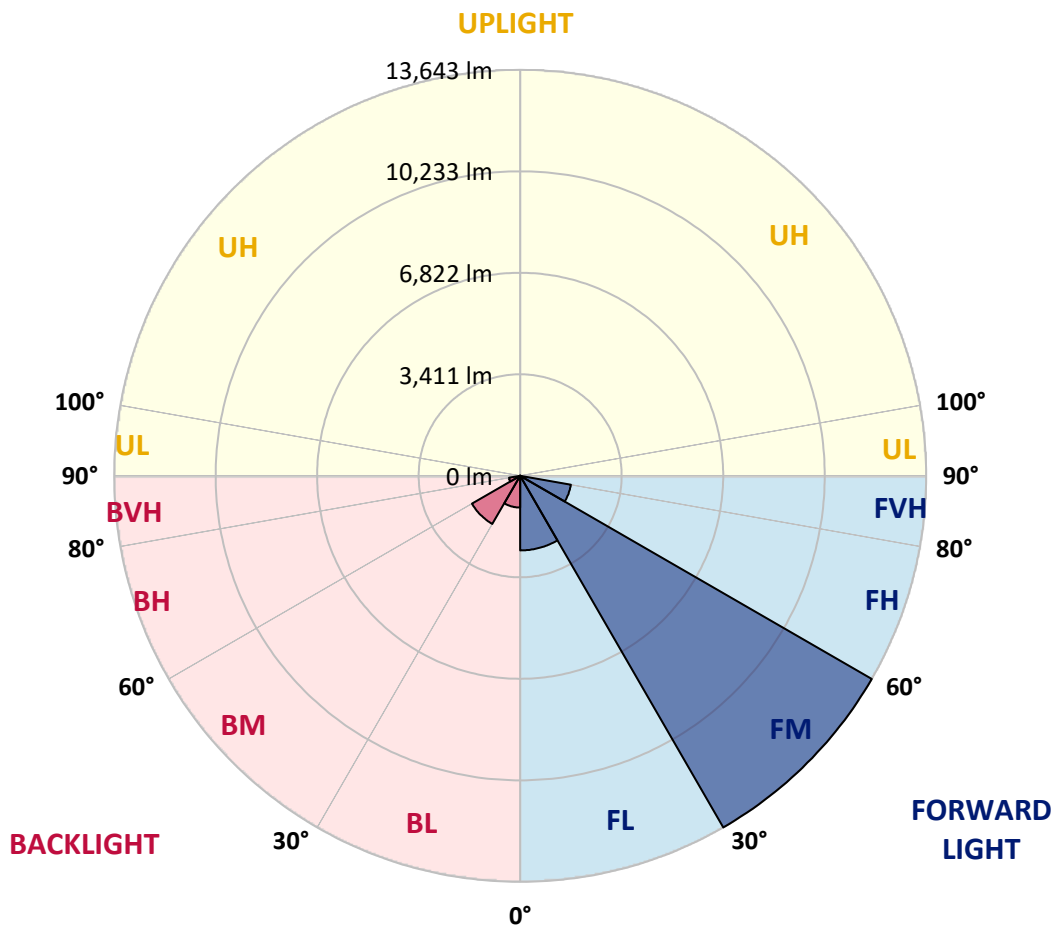


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2507.0	11.8			
FM (30°-60°)	13643.5	64.2			
FH (60°-80°)	1730.8	8.2			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1067.2	5.0	B3/2500		
BM (30°-60°)	1869.6	8.8	B2/2500		
BH (60°-80°)	380.6	1.8	B1/500		G1/500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	4070.9	3976.9	3980.8	3973.0	3961.3	3918.2	3789.0	3769.5	3683.3	3659.9	3581.6
5°	4560.1	4477.9	4524.9	4454.5	4387.9	4348.8	4137.4	4039.5	3902.5	3851.7	3742.1
7.5°	4865.5	4826.3	4810.7	4814.6	4751.9	4654.1	4560.1	4344.9	4160.9	4121.7	3890.8
10°	5014.2	4990.7	5014.2	5002.5	5029.9	5041.6	4877.2	4748.0	4477.9	4411.4	4051.3
12.5°	5049.4	5096.4	5116.0	5166.9	5233.4	5346.9	5335.2	5159.0	4798.9	4755.9	4297.9
15°	5135.5	5174.7	5155.1	5237.3	5362.6	5554.4	5656.1	5628.7	5241.2	5162.9	4583.6
17.5°	5213.8	5143.4	5209.9	5374.3	5499.6	5793.1	6039.7	6153.3	5722.7	5632.7	4845.9
20°	5319.5	5299.9	5288.2	5370.4	5593.5	5984.9	6474.2	6681.7	6262.9	6168.9	5221.7
22.5°	5640.5	5644.4	5636.6	5515.2	5675.7	6118.0	6853.9	7366.7	6908.7	6830.4	5648.3
25°	6063.2	6012.3	5973.2	5875.3	5855.8	6239.4	7237.5	8204.3	7683.7	7628.9	6110.2
27.5°	6509.5	6509.5	6392.0	6302.0	6176.7	6540.8	7589.8	9018.5	8619.3	8544.9	6513.4
30°	6994.8	7022.2	7006.6	6814.8	6736.5	6869.6	7949.9	10059.7	9691.8	9597.8	7178.8
32.5°	7711.1	7652.4	7719.0	7558.5	7327.5	7445.0	8517.5	10991.3	11085.2	10952.2	8051.7
35°	8658.4	8623.2	8580.1	8317.9	8043.9	8137.8	9319.9	12138.2	12834.9	12768.4	8932.4
37.5°	9507.8	9488.2	9453.0	9272.9	8955.9	9069.4	10231.9	13332.0	14541.6	14322.4	10177.1
40°	10400.3	10505.9	10392.4	10231.9	9942.3	10192.8	11304.4	14040.5	15978.1	15711.9	11128.3
42.5°	11609.8	11527.6	11578.4	11284.9	11128.3	11402.3	12380.9	14749.0	17093.7	16776.6	12138.2
45°	12897.6	12901.5	12764.5	12670.5	12263.4	12560.9	13042.4	15140.4	17982.2	17735.6	12901.5
47.5°	13723.5	13719.6	13868.3	14017.0	13598.2	13304.6	13492.5	15512.3	18440.2	18326.7	13179.4
50°	13594.3	13633.4	13825.2	14381.1	14600.3	14204.9	13915.3	15402.7	18647.6	18635.9	13418.2
52.5°	11825.0	11954.2	12275.2	13077.6	14181.4	14670.7	14357.6	15606.2	18749.4	18769.0	13774.4
55°	9002.9	9073.3	9683.9	10658.6	11879.8	13555.2	14181.4	15766.7	18827.7	18862.9	14204.9
56°	7809.0	7621.1	8501.8	9194.7	10654.7	12486.6	13735.2	15641.5	18780.7	19050.8	14420.2
57.5°	5894.9	5769.7	6482.1	7347.1	8752.3	10686.0	12349.6	15050.4	18463.7	18459.8	14111.0
60°	3585.5	3460.2	4008.2	4517.1	5303.9	6579.9	8345.3	11985.5	15610.2	15939.0	11425.8
62.5°	2133.3	2211.6	2751.7	3061.0	3315.4	3448.5	4317.5	7124.0	10415.9	10650.8	7088.8
65°	1420.9	1448.3	1855.4	2364.2	2477.7	1972.8	1757.5	2884.8	4517.1	4372.3	2924.0
67.5°	876.8	939.4	1244.7	1777.1	1968.9	1440.5	833.7	1076.4	1244.7	1244.7	845.5
70°	532.3	563.7	829.8	1209.5	1350.4	927.7	606.7	606.7	598.9	587.1	504.9
72.5°	254.4	274.0	422.7	622.4	634.1	489.3	469.7	512.8	501.0	497.1	418.8
75°	109.6	117.4	148.7	195.7	223.1	207.5	285.7	367.9	379.7	367.9	301.4
77.5°	35.2	39.1	54.8	70.5	74.4	90.0	121.3	152.7	176.1	164.4	148.7
80°	3.9	7.8	15.7	35.2	54.8	70.5	90.0	101.8	113.5	113.5	105.7
82.5°	3.9	3.9	15.7	31.3	50.9	66.5	86.1	97.9	113.5	117.4	109.6
85°	0.0	3.9	11.7	27.4	43.1	43.1	39.1	39.1	27.4	27.4	27.4
87.5°	0.0	0.0	3.9	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3565.9	3558.1	3452.4	3385.9	3350.6	3280.2	3237.1	3205.8	3182.3	3154.9	3158.8
5°	3612.9	3585.5	3409.3	3288.0	3143.2	3064.9	2998.3	2943.5	2908.3	2900.5	2884.8
7.5°	3746.0	3601.1	3335.0	3115.8	2931.8	2853.5	2794.8	2759.6	2775.2	2740.0	2767.4
10°	3847.7	3632.5	3244.9	2927.9	2743.9	2685.2	2653.9	2681.3	2720.4	2704.8	2685.2
12.5°	3973.0	3663.8	3100.1	2747.8	2575.6	2532.5	2587.3	2638.2	2716.5	2747.8	2708.7
15°	4113.9	3699.0	2916.1	2540.4	2430.8	2466.0	2559.9	2650.0	2728.3	2767.4	2790.9
17.5°	4286.1	3687.3	2736.1	2376.0	2293.8	2395.5	2509.1	2591.3	2708.7	2767.4	2751.7
20°	4446.6	3648.1	2536.5	2211.6	2215.5	2309.4	2403.4	2536.5	2599.1	2677.4	2650.0
22.5°	4599.3	3577.7	2329.0	2098.1	2098.1	2242.9	2289.9	2376.0	2430.8	2469.9	2466.0
25°	4814.6	3444.6	2156.8	1988.5	2035.4	2129.4	2168.5	2195.9	2172.4	2203.7	2207.7
27.5°	4967.2	3307.6	2015.9	1890.6	1976.7	2047.2	2035.4	2019.8	1965.0	1921.9	1949.3
30°	5131.6	3147.1	1894.5	1824.1	1871.0	1933.7	1886.7	1839.7	1753.6	1683.1	1687.1
32.5°	5366.5	3072.7	1788.8	1745.8	1808.4	1816.2	1765.3	1694.9	1608.8	1542.2	1538.3
35°	5804.9	3025.7	1698.8	1694.9	1706.6	1710.5	1659.7	1573.5	1538.3	1483.5	1503.1
37.5°	6243.3	3002.3	1636.2	1620.5	1616.6	1620.5	1561.8	1479.6	1546.1	1542.2	1550.1
40°	6803.0	3107.9	1546.1	1526.6	1530.5	1530.5	1456.1	1432.6	1550.1	1561.8	1565.7
42.5°	7370.6	3241.0	1487.4	1424.8	1440.5	1440.5	1401.3	1373.9	1456.1	1377.8	1366.1
45°	7863.8	3436.7	1424.8	1323.0	1362.2	1381.7	1370.0	1323.0	1272.1	1139.1	1139.1
47.5°	8024.3	3609.0	1350.4	1225.2	1256.5	1342.6	1307.4	1209.5	1119.5	1009.9	1002.1
50°	8306.1	3796.9	1291.7	1111.7	1178.2	1283.9	1248.7	1150.8	1049.0	970.7	974.7
52.5°	8595.8	4012.1	1182.1	978.6	1060.8	1236.9	1236.9	1127.3	970.7	915.9	908.1
55°	9030.3	4004.3	986.4	802.4	947.3	1166.5	1186.0	1009.9	869.0	825.9	825.9
56°	9092.9	3824.3	888.5	751.5	896.4	1146.9	1150.8	978.6	829.8	782.9	782.9
57.5°	8623.2	3452.4	778.9	688.9	833.7	1111.7	1115.6	951.2	798.5	732.0	724.1
60°	6634.7	2336.8	649.8	614.5	755.5	1002.1	1021.6	865.1	700.7	649.8	645.9
62.5°	3746.0	1295.6	571.5	555.8	649.8	853.3	912.0	755.5	595.0	567.6	575.4
65°	1710.5	712.4	481.5	450.1	524.5	657.6	735.9	622.4	489.3	458.0	458.0
67.5°	626.3	485.4	411.0	356.2	367.9	426.7	477.5	403.2	324.9	277.9	289.7
70°	446.2	407.1	360.1	309.2	285.7	277.9	274.0	227.0	160.5	125.3	133.1
72.5°	360.1	336.6	301.4	262.3	223.1	187.9	160.5	117.4	74.4	50.9	47.0
75°	258.3	246.6	219.2	187.9	156.6	133.1	109.6	74.4	39.1	19.6	19.6
77.5°	133.1	133.1	129.2	117.4	97.9	78.3	62.6	43.1	23.5	7.8	7.8
80°	101.8	109.6	113.5	101.8	90.0	70.5	50.9	31.3	15.7	3.9	3.9
82.5°	97.9	113.5	121.3	105.7	90.0	66.5	50.9	31.3	15.7	3.9	3.9
85°	23.5	23.5	35.2	39.1	50.9	54.8	43.1	27.4	11.7	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	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)