

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: P529493

Luminaire Tested: **GALN-SA4C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12434 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

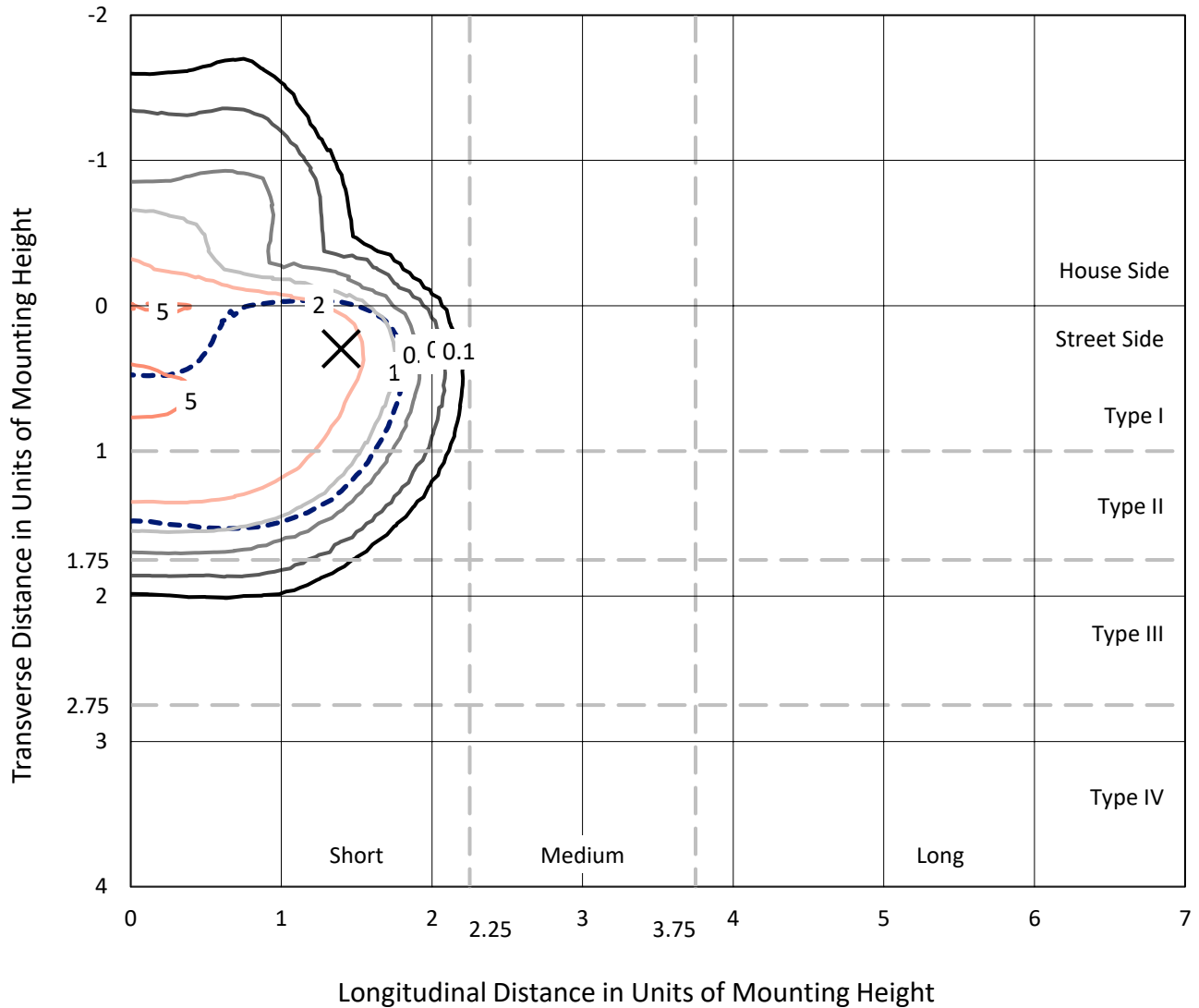
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

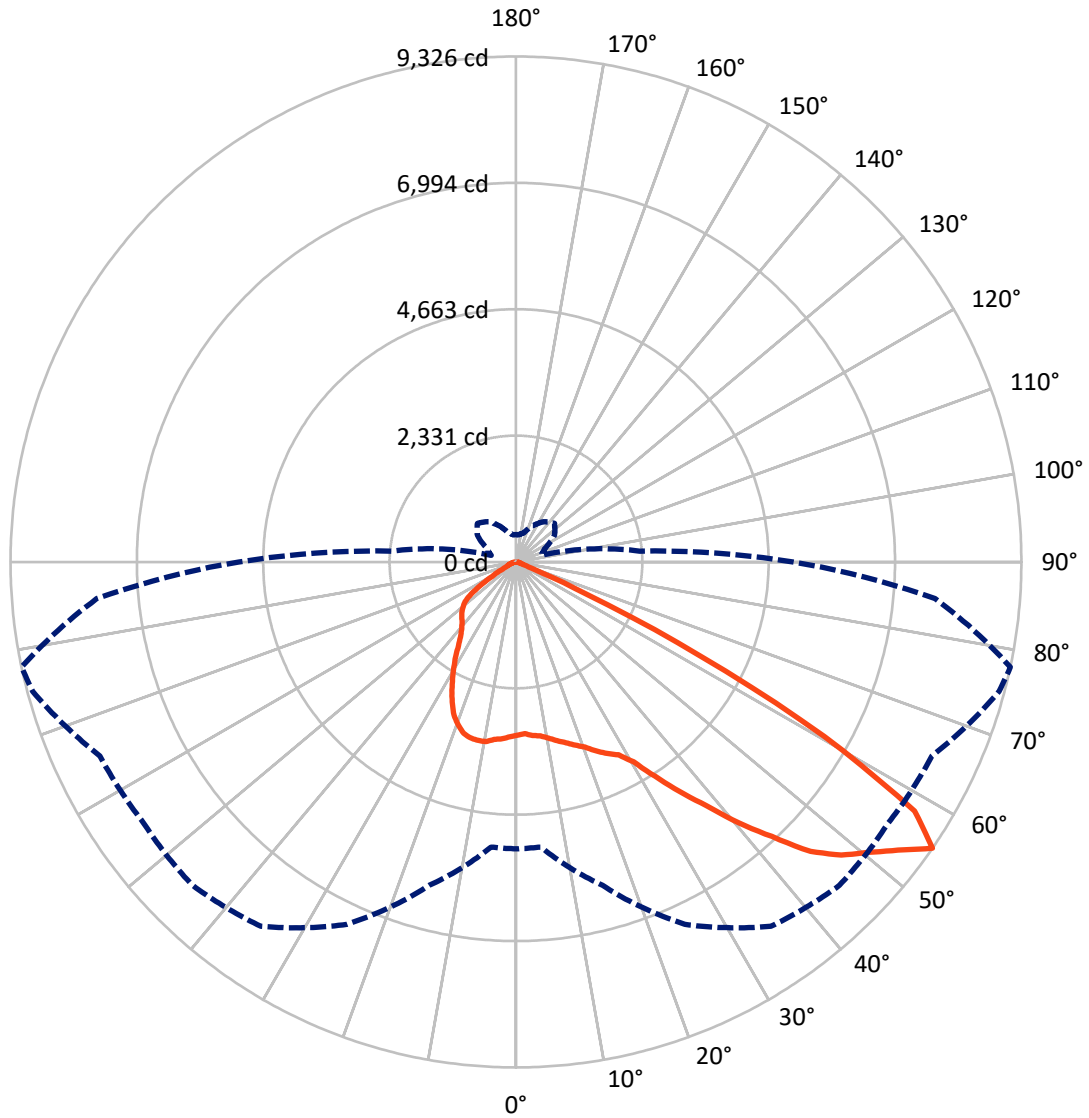
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2309.5	0.0	2309.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10124.5	0.0	10124.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	12434.0	0.0	12434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	2.3
10°-20°	754.4	6.1
20°-30°	1322.3	10.6
30°-40°	2180.3	17.5
40°-50°	3172.7	25.5
50°-60°	3595.0	28.9
60°-70°	1027.9	8.3
70°-80°	79.8	0.6
80°-90°	16.6	0.1
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°	12434.0	100.0
0°-180°	12434.0	100.0

Coefficient of Utilization

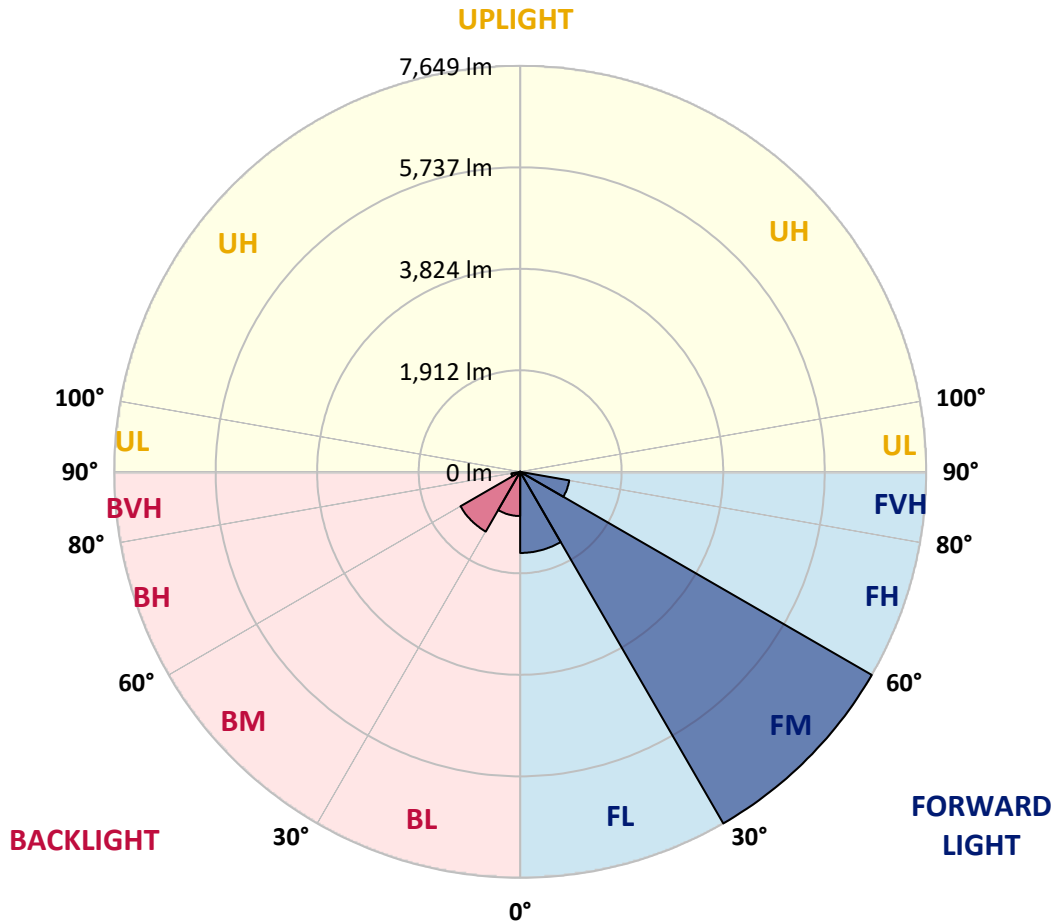


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.5	12.3			
FM (30°-60°)	7648.8	61.5			
FH (60°-80°)	939.1	7.6			G1/1800
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	833.3	6.7	B2/1000		
BM (30°-60°)	1299.1	10.4	B2/2500		
BH (60°-80°)	168.6	1.4	B1/500		G1/500
BVH (80°-90°)	8.5	0.1			G0/10
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°	78°	85°
0°	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8
2.5°	3005.6	3034.5	3039.0	3074.5	3072.3	3132.3	3150.1	3152.3	3192.3	3172.3	3223.5
5°	2921.1	2905.6	2898.9	2961.1	2978.9	3032.3	3076.7	3103.4	3185.7	3214.6	3267.9
7.5°	2845.5	2845.5	2850.0	2905.6	2898.9	2967.8	3014.5	3096.8	3216.8	3241.3	3305.7
10°	2772.2	2745.5	2778.8	2836.6	2885.6	2916.7	3014.5	3092.3	3232.4	3303.5	3392.4
12.5°	2734.4	2747.7	2752.2	2794.4	2847.8	2941.1	2994.5	3123.4	3343.5	3385.8	3481.3
15°	2972.3	2945.6	2881.1	2843.3	2887.8	2932.2	3065.6	3196.8	3401.3	3461.3	3568.0
17.5°	3247.9	3225.7	3172.3	3070.1	2970.0	3052.3	3156.8	3276.8	3463.6	3552.5	3710.3
20°	3608.1	3572.5	3519.1	3319.1	3232.4	3143.4	3254.6	3396.9	3565.8	3645.9	3808.1
22.5°	4037.1	4037.1	3917.1	3674.8	3494.7	3410.2	3456.9	3539.1	3679.2	3788.1	3948.2
25°	4484.0	4470.6	4361.7	4110.5	3805.9	3705.9	3759.2	3817.0	3854.8	3914.8	4021.6
27.5°	4995.3	4917.5	4779.6	4501.7	4232.7	4039.3	4097.1	4046.0	3999.3	4030.4	4183.8
30°	5342.1	5391.0	5215.3	4948.6	4695.1	4479.5	4490.6	4446.2	4232.7	4277.2	4368.4
32.5°	5702.2	5733.3	5635.5	5488.8	5235.4	4984.1	4893.0	4855.2	4695.1	4715.2	4626.2
35°	6002.3	6062.3	5975.6	5911.2	5837.8	5635.5	5384.3	5506.6	5248.7	5199.8	4968.6
37.5°	6278.0	6260.2	6362.5	6295.8	6280.2	6137.9	5862.3	5886.7	5713.3	5702.2	5435.4
40°	6524.7	6529.2	6669.2	6700.4	6638.1	6384.7	5984.5	6177.9	6318.0	6331.3	5989.0
42.5°	6729.3	6789.3	6909.3	7160.5	7067.2	6644.8	6111.2	6322.4	6842.6	6924.9	6513.6
45°	6907.1	7029.4	7178.3	7402.9	7349.5	7013.8	6426.9	6620.3	7402.9	7618.5	7007.1
47.5°	6918.2	7078.3	7240.6	7574.0	7640.7	7211.7	6753.7	7091.6	7847.5	8080.9	7367.3
50°	6873.8	6958.2	7282.8	7645.2	7796.3	7534.0	7211.7	7487.3	8278.7	8425.5	7549.6
52.5°	6346.9	6411.4	7062.7	7711.9	8076.4	7898.6	7818.6	8038.7	8718.9	8827.8	7720.8
55°	5290.9	5279.8	6175.7	7376.2	8205.4	8438.8	8389.9	8467.7	9228.0	9325.8	7763.0
57.5°	3619.2	3821.5	4595.1	6142.4	7416.2	8312.1	8363.2	8234.3	8634.4	8672.2	6767.1
60°	1951.9	2036.3	2658.8	4099.4	5646.6	6773.7	6907.1	6673.7	6642.6	6535.9	4830.8
62.5°	775.9	818.1	1171.6	2029.7	3076.7	4117.1	4403.9	4308.3	4103.8	3823.7	2501.0
65°	369.0	395.7	582.4	949.3	1365.0	1716.2	2003.0	2091.9	1542.8	1389.4	824.8
67.5°	251.2	271.2	424.6	542.4	486.9	509.1	662.5	615.8	362.4	309.0	229.0
70°	191.2	204.5	340.1	369.0	217.9	153.4	171.2	160.1	148.9	151.2	148.9
72.5°	135.6	146.7	249.0	217.9	95.6	71.1	91.1	108.9	108.9	108.9	106.7
75°	82.3	93.4	144.5	84.5	37.8	37.8	57.8	73.4	77.8	80.0	75.6
77.5°	42.2	53.4	48.9	24.5	24.5	28.9	42.2	51.1	55.6	55.6	53.4
80°	8.9	8.9	8.9	13.3	24.5	31.1	42.2	46.7	53.4	53.4	48.9
82.5°	0.0	2.2	6.7	13.3	22.2	28.9	40.0	46.7	53.4	55.6	51.1
85°	0.0	2.2	4.4	8.9	15.6	17.8	15.6	13.3	13.3	13.3	13.3
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°	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8	3196.8
2.5°	3227.9	3234.6	3223.5	3221.2	3212.4	3239.0	3174.6	3159.0	3199.0	3161.2	3170.1
5°	3270.2	3285.7	3265.7	3232.4	3183.5	3107.9	3043.4	2958.9	2918.9	2890.0	2885.6
7.5°	3301.3	3312.4	3292.4	3185.7	3039.0	2847.8	2705.5	2601.0	2518.7	2494.3	2454.3
10°	3428.0	3430.2	3330.2	3094.5	2807.7	2556.5	2338.7	2178.6	2096.4	2045.2	2023.0
12.5°	3512.5	3508.0	3305.7	2914.5	2532.1	2198.6	1949.6	1756.2	1680.6	1656.2	1640.6
15°	3619.2	3594.7	3247.9	2729.9	2176.4	1816.3	1591.7	1458.3	1451.7	1436.1	1451.7
17.5°	3703.7	3634.7	3163.4	2394.3	1836.3	1496.1	1349.4	1358.3	1376.1	1391.6	1393.9
20°	3841.5	3699.2	2970.0	2100.8	1520.6	1282.7	1280.5	1320.5	1365.0	1382.8	1400.5
22.5°	3946.0	3725.9	2763.3	1787.4	1262.7	1196.0	1233.8	1293.8	1327.2	1345.0	1371.6
25°	3983.8	3652.5	2487.6	1473.9	1138.2	1156.0	1213.8	1253.8	1296.1	1316.1	1304.9
27.5°	4021.6	3614.7	2158.6	1213.8	1071.5	1129.3	1178.2	1218.2	1231.6	1258.3	1276.0
30°	4112.7	3483.6	1862.9	1049.3	1038.2	1111.5	1147.1	1160.4	1196.0	1211.6	1211.6
32.5°	4186.1	3432.4	1549.5	971.5	1033.7	1120.4	1124.9	1124.9	1129.3	1118.2	1113.8
35°	4337.2	3256.8	1269.4	924.8	1031.5	1122.7	1133.8	1096.0	993.7	953.7	942.6
37.5°	4524.0	3143.4	1062.6	913.7	1047.1	1149.3	1167.1	1024.8	891.5	827.0	815.9
40°	4750.7	3063.4	927.0	909.2	1082.6	1211.6	1158.2	969.3	795.9	702.5	698.0
42.5°	5015.3	2990.0	835.9	907.0	1127.1	1276.0	1149.3	922.6	698.0	635.8	644.7
45°	5226.5	2950.0	773.6	891.5	1142.7	1313.8	1156.0	840.3	658.0	618.0	622.5
47.5°	5391.0	2865.5	722.5	864.8	1140.4	1327.2	1096.0	807.0	638.0	649.1	660.3
50°	5395.4	2752.2	658.0	807.0	1107.1	1302.7	1027.1	775.9	633.6	680.3	702.5
52.5°	5335.4	2592.1	589.1	724.7	1029.3	1218.2	964.8	762.5	613.6	609.1	635.8
55°	5122.0	2292.0	473.5	586.9	869.2	1004.8	909.2	738.1	553.5	502.4	506.9
57.5°	4139.4	1642.9	349.0	420.2	615.8	735.8	820.3	726.9	498.0	426.8	429.1
60°	2563.2	931.5	255.7	286.8	380.1	446.8	664.7	675.8	444.6	360.1	355.7
62.5°	1316.1	460.2	197.9	202.3	233.4	262.3	455.7	566.9	402.4	342.4	342.4
65°	440.2	226.8	173.4	155.6	155.6	162.3	275.7	393.5	340.1	286.8	286.8
67.5°	189.0	169.0	151.2	135.6	124.5	117.8	155.6	229.0	253.4	217.9	209.0
70°	146.7	142.3	131.2	113.4	97.8	88.9	91.1	117.8	144.5	140.1	135.6
72.5°	108.9	108.9	104.5	88.9	75.6	64.5	60.0	62.2	68.9	71.1	73.4
75°	75.6	77.8	77.8	68.9	55.6	46.7	40.0	33.3	26.7	22.2	20.0
77.5°	51.1	53.4	57.8	51.1	42.2	31.1	24.5	17.8	11.1	4.4	4.4
80°	44.5	51.1	55.6	51.1	44.5	33.3	24.5	13.3	6.7	0.0	0.0
82.5°	46.7	51.1	57.8	48.9	42.2	31.1	24.5	15.6	6.7	2.2	0.0
85°	11.1	11.1	13.3	15.6	20.0	22.2	17.8	11.1	6.7	2.2	0.0
87.5°	4.4	4.4	4.4	4.4	4.4	2.2	2.2	2.2	2.2	0.0	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)