

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: P529103

Luminaire Tested: **GALN-SA4B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529103
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-SA4B-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 11449 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

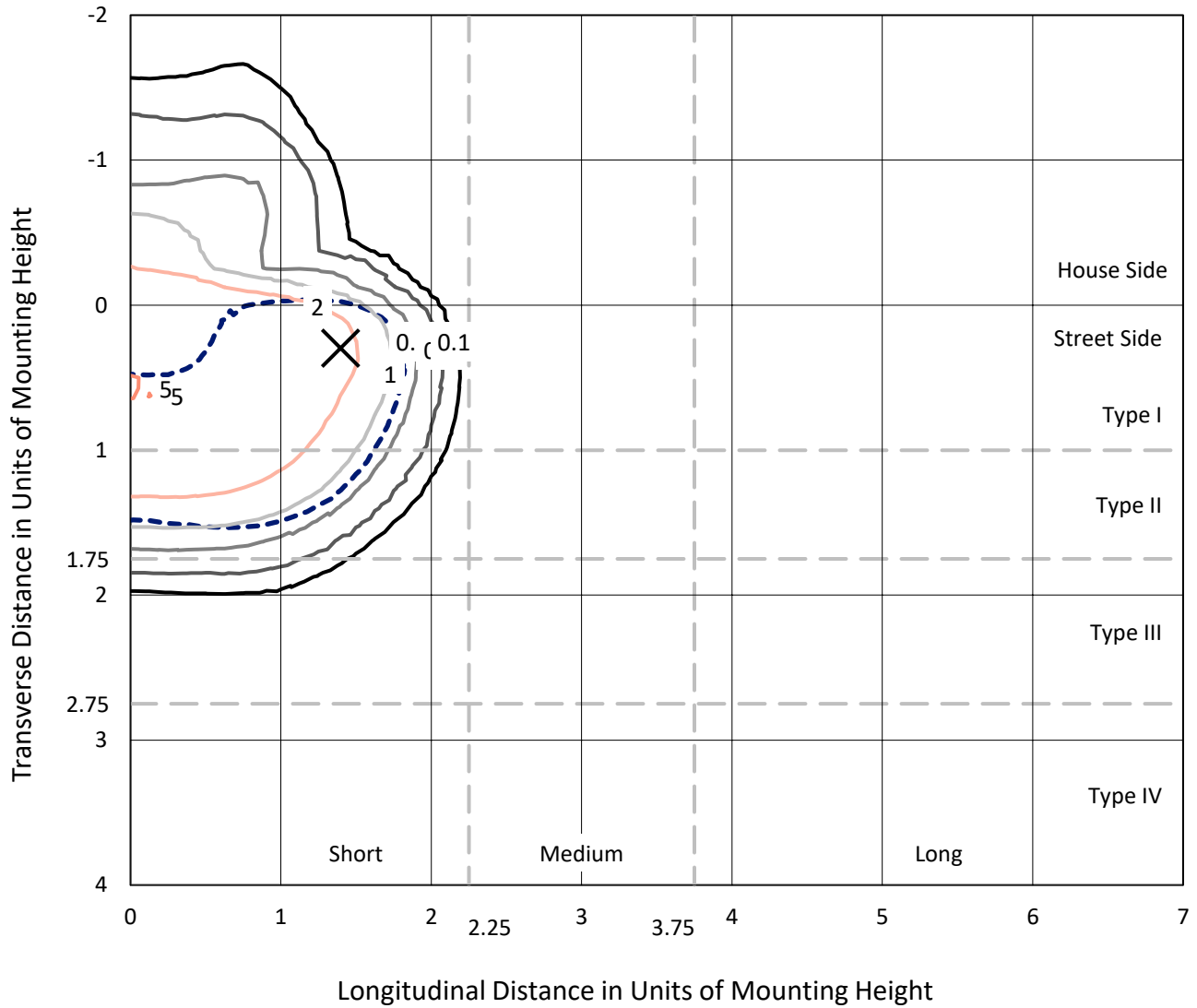
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

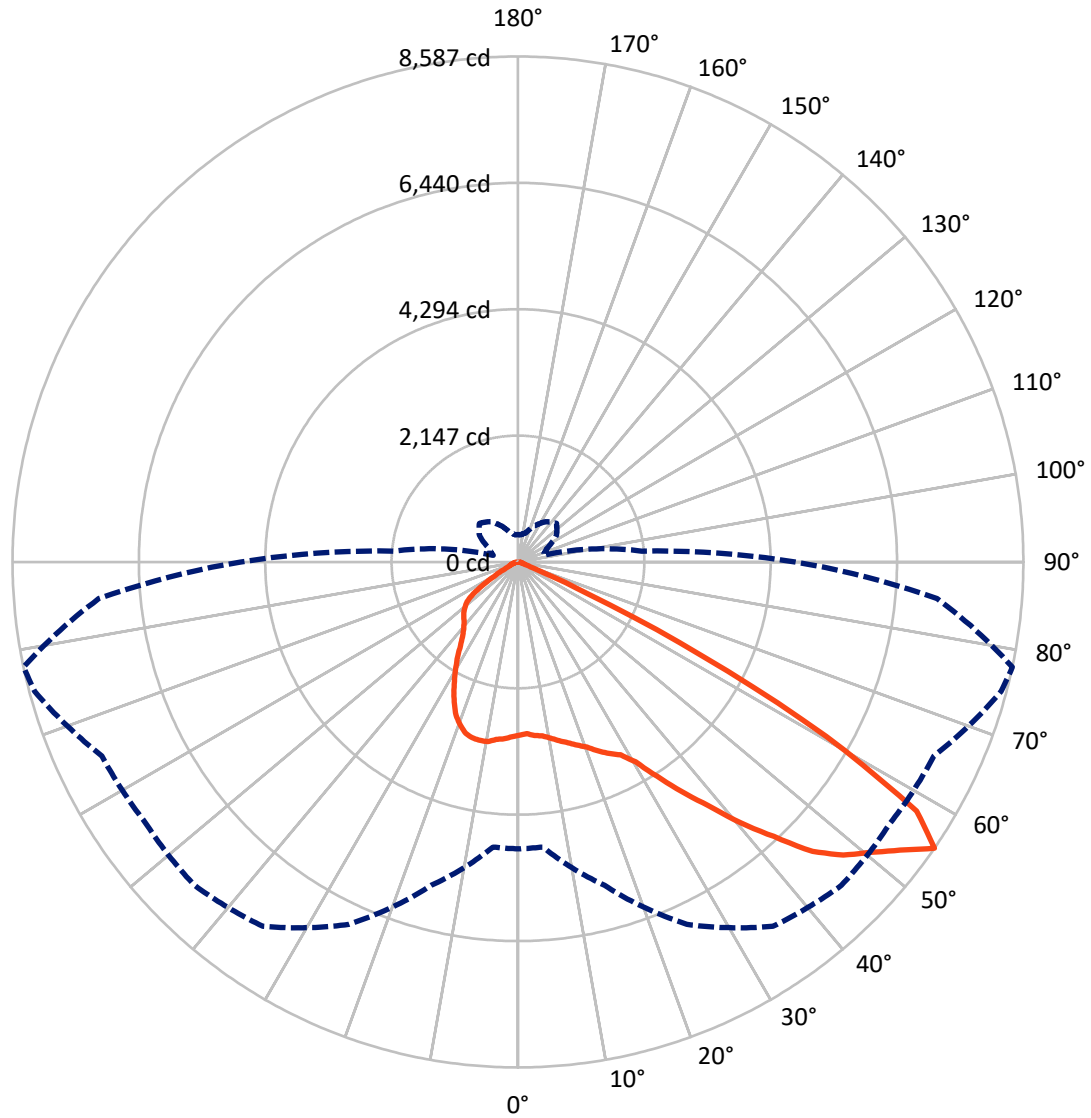
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2126.5	0.0	2126.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9322.5	0.0	9322.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	11449.0	0.0	11449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	2.3
10°-20°	694.6	6.1
20°-30°	1217.6	10.6
30°-40°	2007.6	17.5
40°-50°	2921.3	25.5
50°-60°	3310.2	28.9
60°-70°	946.4	8.3
70°-80°	73.5	0.6
80°-90°	15.3	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°	11449.0	100.0
0°-180°	11449.0	100.0

Coefficient of Utilization



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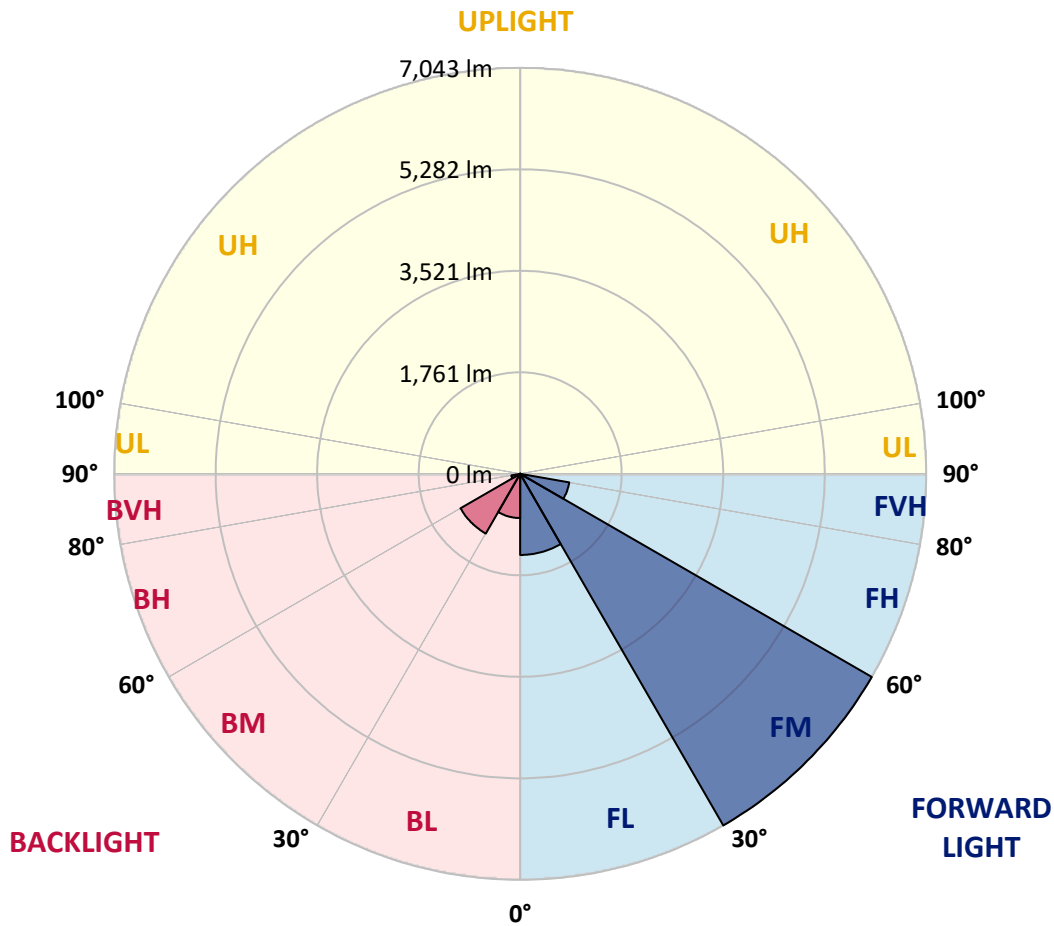
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.4	12.3			
FM (30°-60°)	7042.9	61.5			
FH (60°-80°)	864.7	7.6			G1/1800
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	767.3	6.7	B2/1000		
BM (30°-60°)	1196.2	10.4	B2/2500		
BH (60°-80°)	155.2	1.4	B1/500		G1/500
BVH (80°-90°)	7.8	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°	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5
2.5°	2767.5	2794.1	2798.2	2831.0	2828.9	2884.2	2900.6	2902.6	2939.5	2921.0	2968.1
5°	2689.7	2675.4	2669.3	2726.6	2742.9	2792.1	2833.0	2857.6	2933.3	2959.9	3009.0
7.5°	2620.1	2620.1	2624.2	2675.4	2669.3	2732.7	2775.7	2851.4	2962.0	2984.5	3043.8
10°	2552.6	2528.0	2558.7	2611.9	2657.0	2685.6	2775.7	2847.3	2976.3	3041.8	3123.7
12.5°	2517.8	2530.1	2534.2	2573.0	2622.2	2708.1	2757.3	2876.0	3078.6	3117.5	3205.6
15°	2736.8	2712.2	2652.9	2618.1	2659.0	2700.0	2822.8	2943.5	3131.9	3187.1	3285.4
17.5°	2990.6	2970.2	2921.0	2826.9	2734.8	2810.5	2906.7	3017.2	3189.2	3271.1	3416.4
20°	3322.2	3289.5	3240.4	3056.1	2976.3	2894.4	2996.8	3127.8	3283.3	3357.0	3506.5
22.5°	3717.3	3717.3	3606.8	3383.6	3217.8	3140.1	3183.0	3258.8	3387.7	3488.0	3635.4
25°	4128.7	4116.5	4016.2	3784.8	3504.4	3412.3	3461.4	3514.6	3549.4	3604.7	3703.0
27.5°	4599.5	4527.9	4401.0	4145.1	3897.4	3719.3	3772.6	3725.5	3682.5	3711.2	3852.4
30°	4918.9	4963.9	4802.2	4556.6	4323.2	4124.6	4134.9	4093.9	3897.4	3938.4	4022.3
32.5°	5250.5	5279.1	5189.1	5054.0	4820.6	4589.3	4505.4	4470.6	4323.2	4341.6	4259.7
35°	5526.8	5582.1	5502.3	5442.9	5375.3	5189.1	4957.8	5070.3	4832.9	4787.9	4575.0
37.5°	5780.6	5764.3	5858.4	5797.0	5782.7	5651.7	5397.9	5420.4	5260.7	5250.5	5004.8
40°	6007.9	6012.0	6140.9	6169.6	6112.3	5878.9	5510.4	5688.5	5817.5	5829.8	5514.5
42.5°	6196.2	6251.5	6362.0	6593.3	6507.3	6118.4	5627.1	5821.6	6300.6	6376.3	5997.6
45°	6359.9	6472.5	6609.7	6816.4	6767.3	6458.2	5917.8	6095.9	6816.4	7015.0	6452.1
47.5°	6370.2	6517.6	6667.0	6974.0	7035.4	6640.4	6218.7	6529.8	7225.8	7440.7	6783.7
50°	6329.2	6407.0	6705.9	7039.5	7178.7	6937.2	6640.4	6894.2	7622.9	7758.0	6951.5
52.5°	5844.1	5903.5	6503.2	7100.9	7436.6	7272.9	7199.2	7401.8	8028.2	8128.5	7109.1
55°	4871.8	4861.6	5686.5	6791.9	7555.4	7770.3	7725.3	7796.9	8497.0	8587.0	7148.0
57.5°	3332.5	3518.7	4231.1	5655.8	6828.7	7653.6	7700.7	7582.0	7950.4	7985.2	6231.0
60°	1797.2	1875.0	2448.2	3774.6	5199.3	6237.1	6359.9	6145.0	6116.4	6018.1	4448.1
62.5°	714.4	753.3	1078.8	1868.9	2833.0	3791.0	4055.1	3967.0	3778.7	3520.8	2302.8
65°	339.8	364.4	536.3	874.1	1256.8	1580.3	1844.3	1926.2	1420.6	1279.4	759.4
67.5°	231.3	249.7	391.0	499.5	448.3	468.8	610.0	567.0	333.7	284.5	210.8
70°	176.0	188.3	313.2	339.8	200.6	141.2	157.6	147.4	137.1	139.2	137.1
72.5°	124.9	135.1	229.3	200.6	88.0	65.5	83.9	100.3	100.3	100.3	98.3
75°	75.7	86.0	133.1	77.8	34.8	34.8	53.2	67.6	71.6	73.7	69.6
77.5°	38.9	49.1	45.0	22.5	22.5	26.6	38.9	47.1	51.2	51.2	49.1
80°	8.2	8.2	8.2	12.3	22.5	28.7	38.9	43.0	49.1	49.1	45.0
82.5°	0.0	2.0	6.1	12.3	20.5	26.6	36.8	43.0	49.1	51.2	47.1
85°	0.0	2.0	4.1	8.2	14.3	16.4	14.3	12.3	12.3	12.3	12.3
87.5°	0.0	0.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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°	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5	2943.5
2.5°	2972.2	2978.3	2968.1	2966.1	2957.9	2982.4	2923.1	2908.7	2945.6	2910.8	2919.0
5°	3011.1	3025.4	3007.0	2976.3	2931.3	2861.7	2802.3	2724.5	2687.7	2661.1	2657.0
7.5°	3039.8	3050.0	3031.6	2933.3	2798.2	2622.2	2491.2	2395.0	2319.2	2296.7	2259.9
10°	3156.4	3158.5	3066.4	2849.4	2585.3	2354.0	2153.4	2006.0	1930.3	1883.2	1862.7
12.5°	3234.2	3230.1	3043.8	2683.6	2331.5	2024.5	1795.2	1617.1	1547.5	1525.0	1510.7
15°	3332.5	3310.0	2990.6	2513.7	2004.0	1672.4	1465.6	1342.8	1336.7	1322.3	1336.7
17.5°	3410.3	3346.8	2912.8	2204.6	1690.8	1377.6	1242.5	1250.7	1267.1	1281.4	1283.5
20°	3537.2	3406.2	2734.8	1934.4	1400.1	1181.1	1179.1	1215.9	1256.8	1273.2	1289.6
22.5°	3633.4	3430.7	2544.4	1645.8	1162.7	1101.3	1136.1	1191.3	1222.0	1238.4	1263.0
25°	3668.2	3363.2	2290.6	1357.1	1048.0	1064.4	1117.6	1154.5	1193.4	1211.8	1201.6
27.5°	3703.0	3328.4	1987.6	1117.6	986.6	1039.9	1084.9	1121.7	1134.0	1158.6	1175.0
30°	3786.9	3207.6	1715.4	966.2	955.9	1023.5	1056.2	1068.5	1101.3	1115.6	1115.6
32.5°	3854.4	3160.5	1426.7	894.5	951.8	1031.7	1035.8	1035.8	1039.9	1029.6	1025.5
35°	3993.6	2998.8	1168.8	851.5	949.8	1033.7	1044.0	1009.2	915.0	878.2	867.9
37.5°	4165.6	2894.4	978.5	841.3	964.1	1058.3	1074.7	943.7	820.8	761.5	751.2
40°	4374.4	2820.7	853.6	837.2	996.9	1115.6	1066.5	892.5	732.8	646.8	642.7
42.5°	4618.0	2753.2	769.7	835.2	1037.8	1175.0	1058.3	849.5	642.7	585.4	593.6
45°	4812.4	2716.3	712.3	820.8	1052.1	1209.8	1064.4	773.8	605.9	569.1	573.2
47.5°	4963.9	2638.5	665.3	796.3	1050.1	1222.0	1009.2	743.1	587.5	597.7	608.0
50°	4968.0	2534.2	605.9	743.1	1019.4	1199.5	945.7	714.4	583.4	626.4	646.8
52.5°	4912.7	2386.8	542.4	667.3	947.7	1121.7	888.4	702.1	565.0	560.9	585.4
55°	4716.2	2110.4	436.0	540.4	800.4	925.2	837.2	679.6	509.7	462.6	466.7
57.5°	3811.5	1512.7	321.4	386.9	567.0	677.5	755.3	669.4	458.5	393.0	395.1
60°	2360.2	857.7	235.4	264.1	350.0	411.4	612.0	622.3	409.4	331.6	327.5
62.5°	1211.8	423.7	182.2	186.3	214.9	241.5	419.6	522.0	370.5	315.2	315.2
65°	405.3	208.8	159.7	143.3	143.3	149.4	253.8	362.3	313.2	264.1	264.1
67.5°	174.0	155.6	139.2	124.9	114.6	108.5	143.3	210.8	233.4	200.6	192.4
70°	135.1	131.0	120.8	104.4	90.1	81.9	83.9	108.5	133.1	129.0	124.9
72.5°	100.3	100.3	96.2	81.9	69.6	59.4	55.3	57.3	63.5	65.5	67.6
75°	69.6	71.6	71.6	63.5	51.2	43.0	36.8	30.7	24.6	20.5	18.4
77.5°	47.1	49.1	53.2	47.1	38.9	28.7	22.5	16.4	10.2	4.1	4.1
80°	40.9	47.1	51.2	47.1	40.9	30.7	22.5	12.3	6.1	0.0	0.0
82.5°	43.0	47.1	53.2	45.0	38.9	28.7	22.5	14.3	6.1	2.0	0.0
85°	10.2	10.2	12.3	14.3	18.4	20.5	16.4	10.2	6.1	2.0	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	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)