

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: P529987

Luminaire Tested: **GALN-SA5A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529987
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-SA5A-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 11068 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 154
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



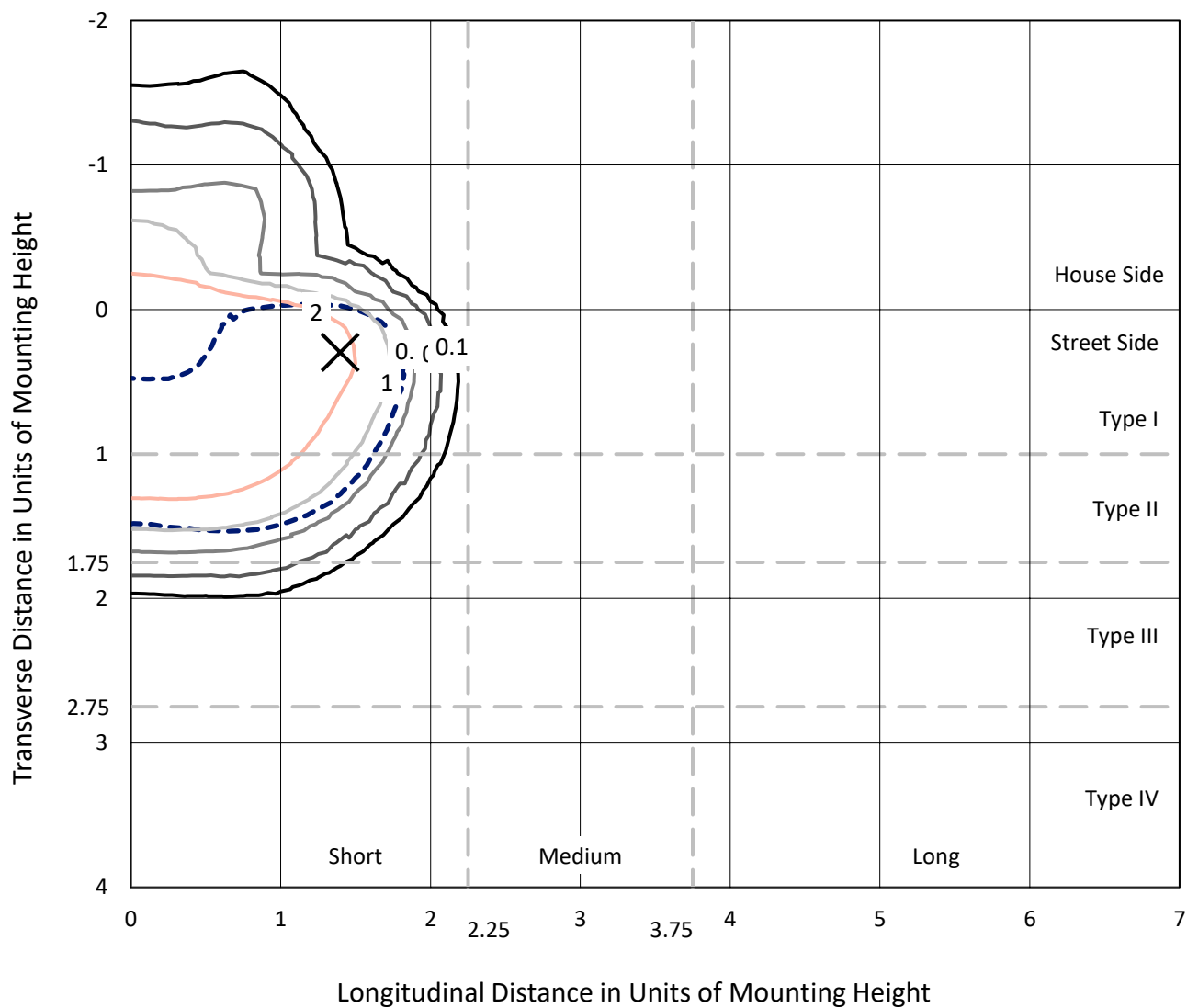
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

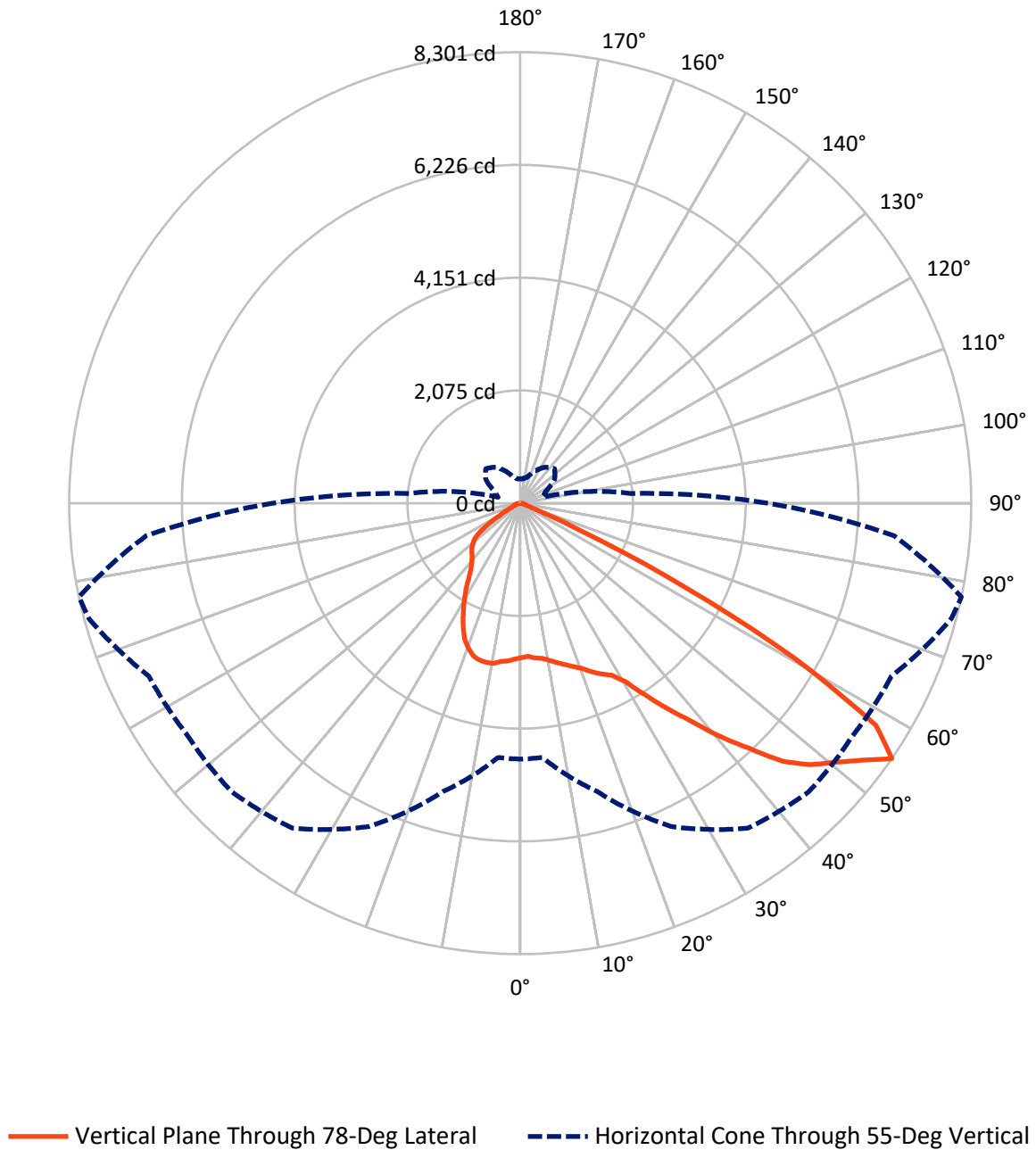


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2055.8	0.0	2055.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9012.3	0.0	9012.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	11068.0	0.0	11068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	2.3
10°-20°	671.5	6.1
20°-30°	1177.1	10.6
30°-40°	1940.8	17.5
40°-50°	2824.1	25.5
50°-60°	3200.0	28.9
60°-70°	914.9	8.3
70°-80°	71.0	0.6
80°-90°	14.8	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°	11068.0	100.0
0°-180°	11068.0	100.0

Coefficient of Utilization



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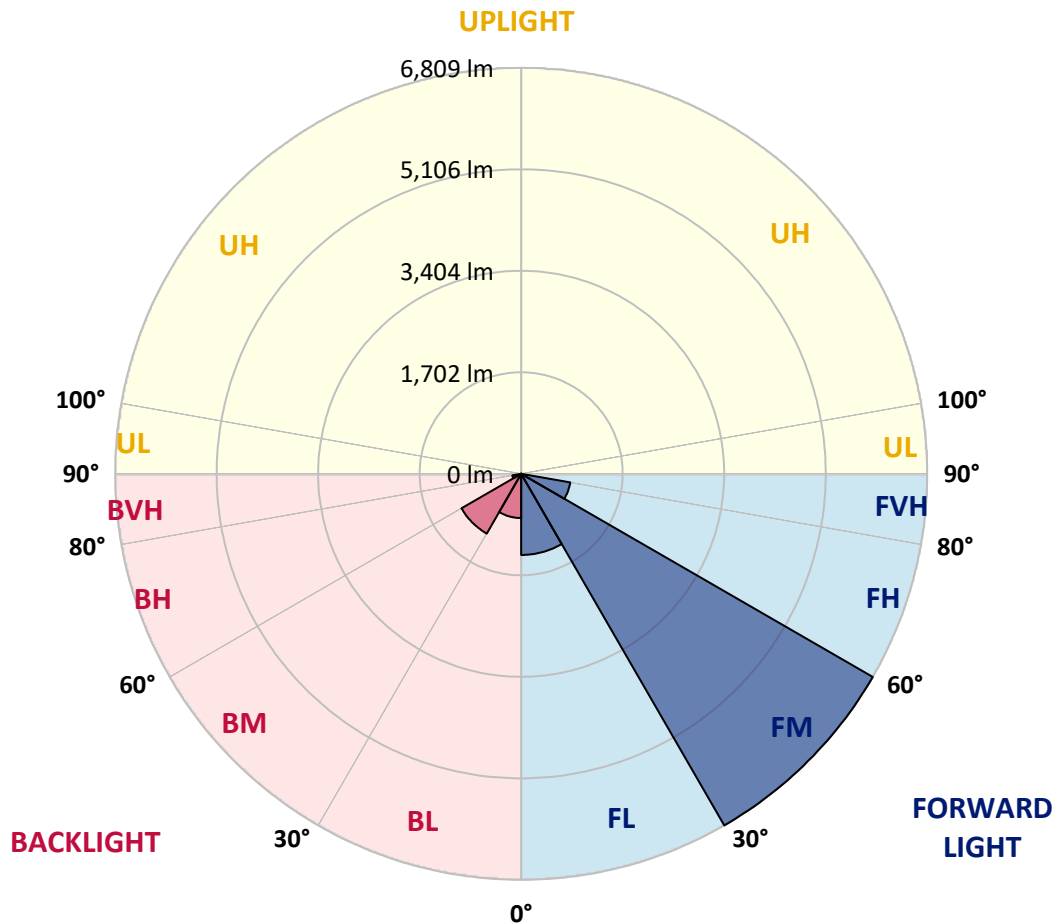
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1360.6	12.3			
FM	(30°-60°)	6808.5	61.5			
FH	(60°-80°)	835.9	7.6			G1/1800
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	741.7	6.7	B2/1000		
BM	(30°-60°)	1156.4	10.4	B2/2500		
BH	(60°-80°)	150.1	1.4	B1/500		G1/500
BVH	(80°-90°)	7.6	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°	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6
2.5°	2675.4	2701.1	2705.1	2736.8	2734.8	2788.2	2804.0	2806.0	2841.6	2823.8	2869.3
5°	2600.2	2586.4	2580.4	2635.8	2651.7	2699.2	2738.7	2762.5	2835.7	2861.4	2908.9
7.5°	2532.9	2532.9	2536.9	2586.4	2580.4	2641.8	2683.3	2756.5	2863.4	2885.2	2942.6
10°	2467.6	2443.9	2473.6	2525.0	2568.6	2596.3	2683.3	2752.6	2877.3	2940.6	3019.7
12.5°	2434.0	2445.9	2449.8	2487.4	2534.9	2618.0	2665.5	2780.3	2976.2	3013.8	3098.9
15°	2645.7	2622.0	2564.6	2531.0	2570.5	2610.1	2728.8	2845.6	3027.6	3081.1	3176.1
17.5°	2891.1	2871.3	2823.8	2732.8	2643.7	2717.0	2810.0	2916.8	3083.1	3162.2	3302.7
20°	3211.7	3180.0	3132.5	2954.4	2877.3	2798.1	2897.0	3023.7	3174.1	3245.3	3389.8
22.5°	3593.6	3593.6	3486.7	3271.0	3110.8	3035.6	3077.1	3150.3	3275.0	3372.0	3514.4
25°	3991.3	3979.5	3882.5	3658.9	3387.8	3298.7	3346.2	3397.7	3431.3	3484.8	3579.7
27.5°	4446.5	4377.2	4254.5	4007.2	3767.7	3595.6	3647.0	3601.5	3560.0	3587.7	3724.2
30°	4755.2	4798.7	4642.4	4404.9	4179.3	3987.4	3997.3	3957.7	3767.7	3807.3	3888.4
32.5°	5075.8	5103.5	5016.4	4885.8	4660.2	4436.6	4355.5	4321.8	4179.3	4197.1	4118.0
35°	5342.9	5396.3	5319.2	5261.8	5196.5	5016.4	4792.8	4901.6	4672.1	4628.5	4422.7
37.5°	5588.3	5572.4	5663.5	5604.1	5590.3	5463.6	5218.2	5240.0	5085.6	5075.8	4838.3
40°	5807.9	5811.9	5936.6	5964.3	5908.9	5683.3	5327.1	5499.2	5623.9	5635.8	5331.0
42.5°	5990.0	6043.4	6150.3	6373.9	6290.8	5914.8	5439.9	5627.9	6090.9	6164.1	5798.0
45°	6148.3	6257.1	6389.7	6589.6	6542.1	6243.3	5720.9	5893.0	6589.6	6781.5	6237.3
47.5°	6158.2	6300.7	6445.1	6741.9	6801.3	6419.4	6011.8	6312.5	6985.3	7193.1	6557.9
50°	6118.6	6193.8	6482.7	6805.3	6939.8	6706.3	6419.4	6664.8	7369.2	7499.8	6720.2
52.5°	5649.6	5707.0	6286.8	6864.6	7189.2	7030.9	6959.6	7155.5	7761.1	7858.0	6872.6
55°	4709.7	4699.8	5497.3	6565.8	7303.9	7511.7	7468.2	7537.4	8214.2	8301.3	6910.2
57.5°	3221.6	3401.6	4090.3	5467.6	6601.5	7398.9	7444.4	7329.7	7685.9	7719.5	6023.6
60°	1737.4	1812.6	2366.7	3649.0	5026.3	6029.6	6148.3	5940.5	5912.8	5817.8	4300.0
62.5°	690.6	728.2	1042.9	1806.7	2738.7	3664.8	3920.1	3835.0	3653.0	3403.6	2226.2
65°	328.5	352.2	518.5	845.0	1215.0	1527.7	1782.9	1862.1	1373.3	1236.8	734.2
67.5°	223.6	241.4	378.0	482.8	433.4	453.2	589.7	548.1	322.6	275.1	203.8
70°	170.2	182.1	302.8	328.5	193.9	136.5	152.4	142.5	132.6	134.6	132.6
72.5°	120.7	130.6	221.6	193.9	85.1	63.3	81.1	97.0	97.0	97.0	95.0
75°	73.2	83.1	128.6	75.2	33.6	33.6	51.5	65.3	69.3	71.2	67.3
77.5°	37.6	47.5	43.5	21.8	21.8	25.7	37.6	45.5	49.5	49.5	47.5
80°	7.9	7.9	7.9	11.9	21.8	27.7	37.6	41.6	47.5	47.5	43.5
82.5°	0.0	2.0	5.9	11.9	19.8	25.7	35.6	41.6	47.5	49.5	45.5
85°	0.0	2.0	4.0	7.9	13.9	15.8	13.9	11.9	11.9	11.9	11.9
87.5°	0.0	0.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6	2845.6
2.5°	2873.3	2879.2	2869.3	2867.4	2859.4	2883.2	2825.8	2811.9	2847.6	2813.9	2821.8
5°	2910.9	2924.7	2906.9	2877.3	2833.7	2766.4	2709.0	2633.9	2598.2	2572.5	2568.6
7.5°	2938.6	2948.5	2930.7	2835.7	2705.1	2534.9	2408.3	2315.3	2242.0	2220.3	2184.7
10°	3051.4	3053.4	2964.3	2754.6	2499.3	2275.7	2081.8	1939.3	1866.1	1820.5	1800.8
12.5°	3126.6	3122.6	2942.6	2594.3	2253.9	1957.1	1735.5	1563.3	1496.0	1474.2	1460.4
15°	3221.6	3199.8	2891.1	2430.0	1937.3	1616.7	1416.9	1298.1	1292.2	1278.3	1292.2
17.5°	3296.8	3235.4	2815.9	2131.2	1634.5	1331.8	1201.2	1209.1	1224.9	1238.8	1240.7
20°	3419.5	3292.8	2643.7	1870.0	1353.5	1141.8	1139.8	1175.4	1215.0	1230.8	1246.7
22.5°	3512.5	3316.6	2459.7	1591.0	1124.0	1064.6	1098.3	1151.7	1181.4	1197.2	1221.0
25°	3546.1	3251.3	2214.3	1312.0	1013.2	1029.0	1080.5	1116.1	1153.7	1171.5	1161.6
27.5°	3579.7	3217.6	1921.5	1080.5	953.8	1005.3	1048.8	1084.4	1096.3	1120.0	1135.9
30°	3660.9	3100.9	1658.3	934.0	924.1	989.4	1021.1	1033.0	1064.6	1078.5	1078.5
32.5°	3726.2	3055.3	1379.3	864.8	920.2	997.3	1001.3	1001.3	1005.3	995.4	991.4
35°	3860.7	2899.0	1129.9	823.2	918.2	999.3	1009.2	975.6	884.5	848.9	839.0
37.5°	4027.0	2798.1	945.9	813.3	932.0	1023.1	1038.9	912.3	793.5	736.1	726.2
40°	4228.8	2726.9	825.2	809.4	963.7	1078.5	1031.0	862.8	708.4	625.3	621.4
42.5°	4464.3	2661.6	744.0	807.4	1003.3	1135.9	1023.1	821.2	621.4	566.0	573.9
45°	4652.3	2625.9	688.6	793.5	1017.1	1169.5	1029.0	748.0	585.7	550.1	554.1
47.5°	4798.7	2550.7	643.1	769.8	1015.2	1181.4	975.6	718.3	567.9	577.8	587.7
50°	4802.7	2449.8	585.7	718.3	985.5	1159.6	914.2	690.6	564.0	605.5	625.3
52.5°	4749.2	2307.3	524.4	645.1	916.2	1084.4	858.8	678.7	546.2	542.2	566.0
55°	4559.3	2040.2	421.5	522.4	773.7	894.4	809.4	657.0	492.7	447.2	451.2
57.5°	3684.6	1462.4	310.7	374.0	548.1	655.0	730.2	647.1	443.3	379.9	381.9
60°	2281.6	829.1	227.6	255.3	338.4	397.7	591.7	601.6	395.8	320.6	316.6
62.5°	1171.5	409.6	176.1	180.1	207.8	233.5	405.7	504.6	358.2	304.7	304.7
65°	391.8	201.8	154.4	138.5	138.5	144.5	245.4	350.3	302.8	255.3	255.3
67.5°	168.2	150.4	134.6	120.7	110.8	104.9	138.5	203.8	225.6	193.9	186.0
70°	130.6	126.6	116.8	100.9	87.1	79.2	81.1	104.9	128.6	124.7	120.7
72.5°	97.0	97.0	93.0	79.2	67.3	57.4	53.4	55.4	61.3	63.3	65.3
75°	67.3	69.3	69.3	61.3	49.5	41.6	35.6	29.7	23.7	19.8	17.8
77.5°	45.5	47.5	51.5	45.5	37.6	27.7	21.8	15.8	9.9	4.0	4.0
80°	39.6	45.5	49.5	45.5	39.6	29.7	21.8	11.9	5.9	0.0	0.0
82.5°	41.6	45.5	51.5	43.5	37.6	27.7	21.8	13.9	5.9	2.0	0.0
85°	9.9	9.9	11.9	13.9	17.8	19.8	15.8	9.9	5.9	2.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	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)