

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: P646862

Luminaire Tested: **GALN-SA3C-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16816.5 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

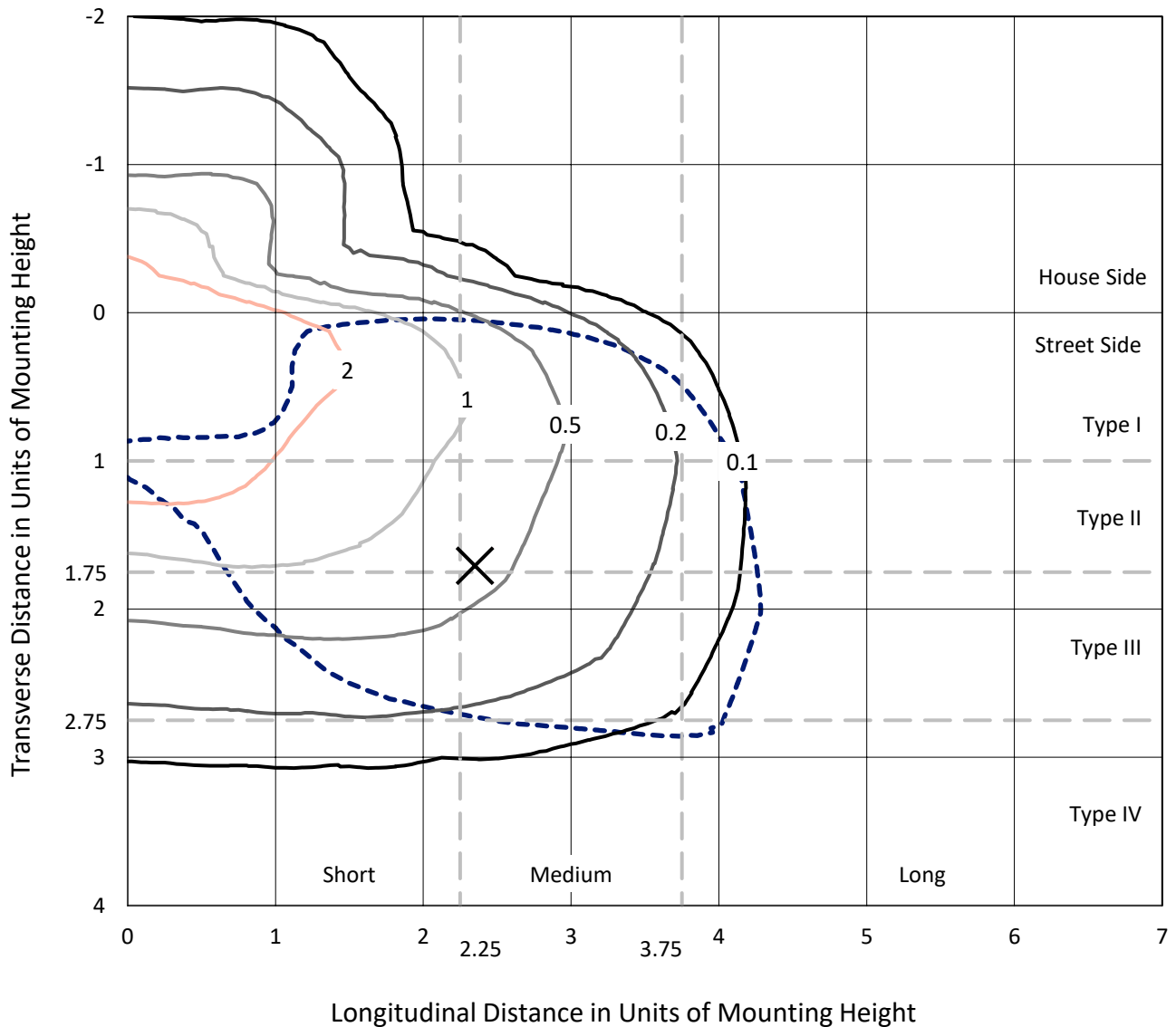
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

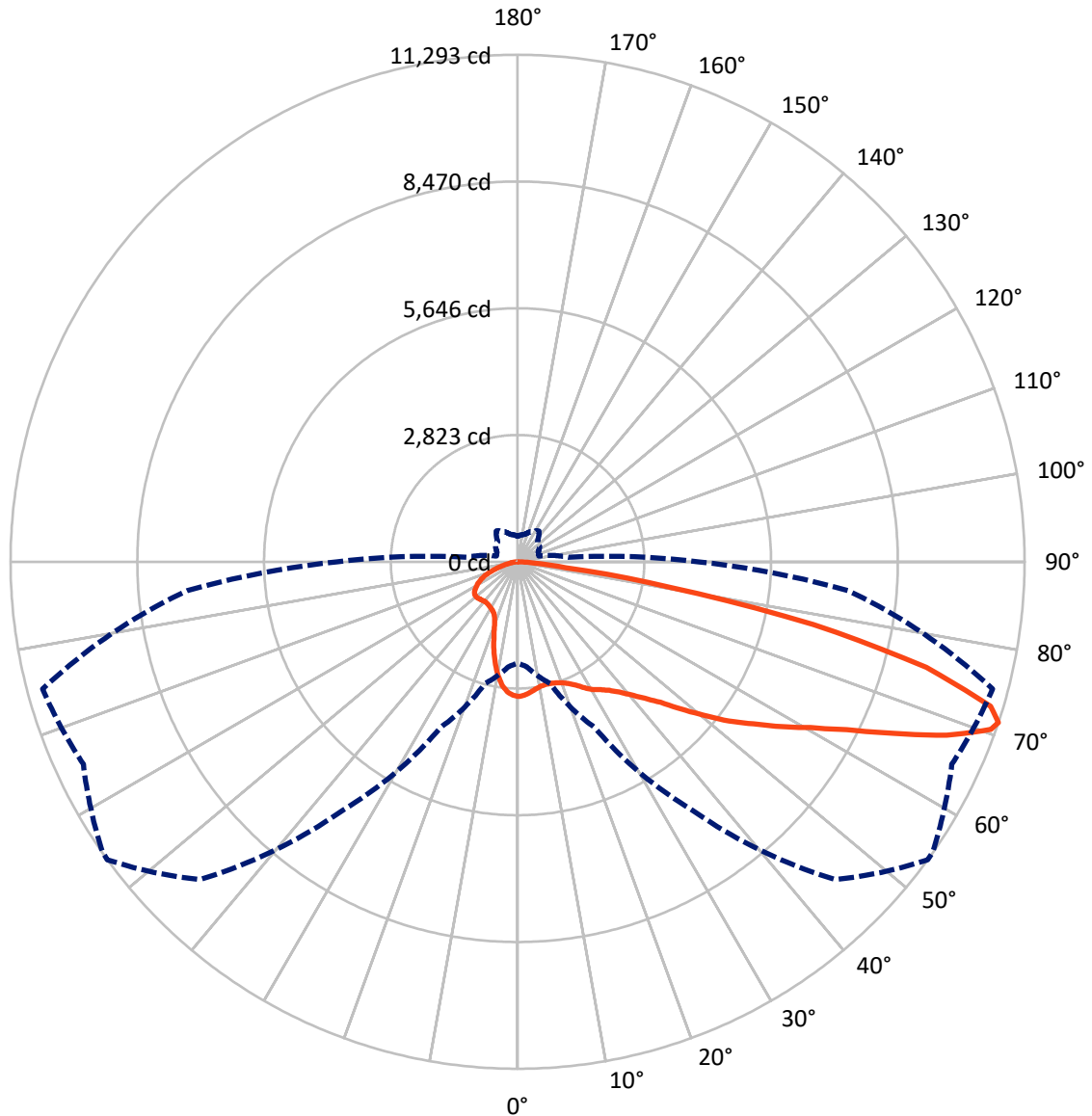
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3036.1	0.0	3036.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13780.4	0.0	13780.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	16816.5	0.0	16816.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	1.6
10°-20°	706.0	4.2
20°-30°	1175.5	7.0
30°-40°	1738.2	10.3
40°-50°	2448.3	14.6
50°-60°	3278.4	19.5
60°-70°	4132.2	24.6
70°-80°	2822.3	16.8
80°-90°	248.2	1.5
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°	16816.5	100.0
0°-180°	16816.5	100.0

Coefficient of Utilization

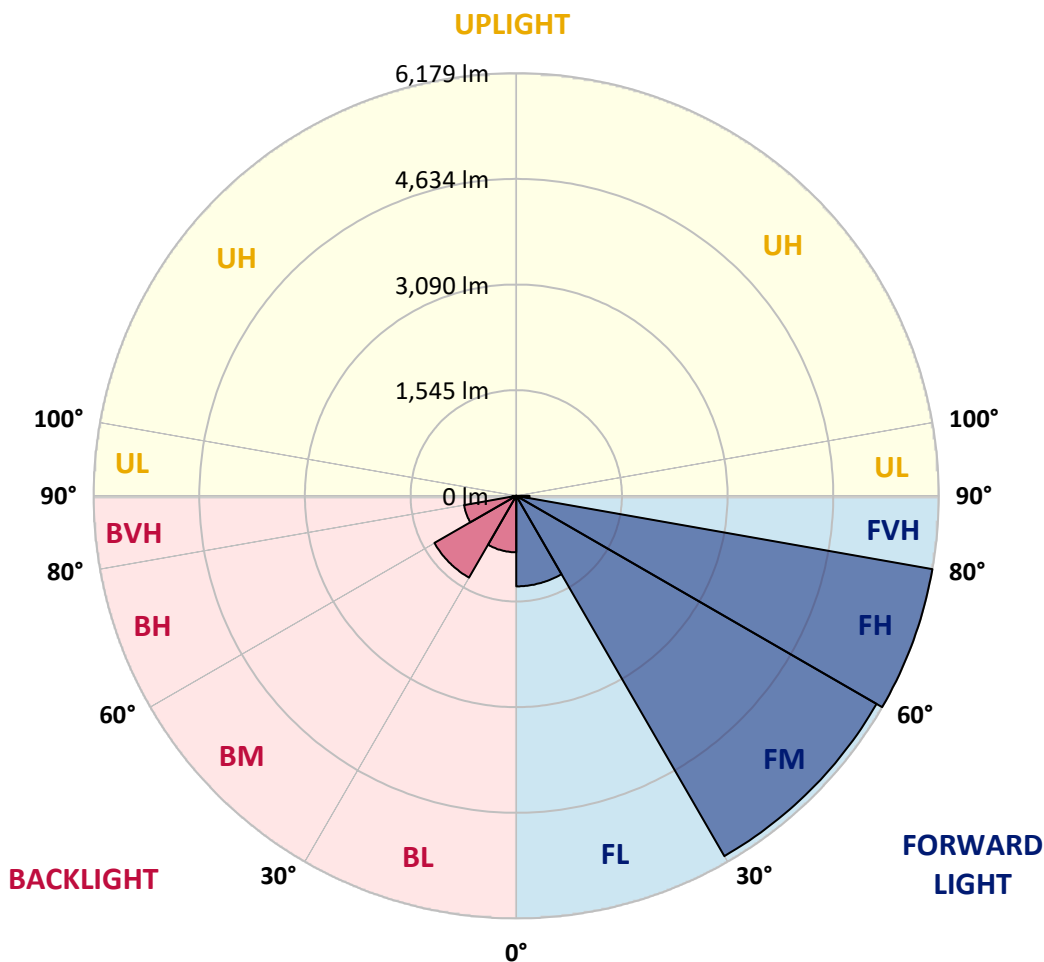


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.7	7.9			
FM (30°-60°)	6083.6	36.2			
FH (60°-80°)	6179.0	36.7			G3/7500
FVH (80°-90°)	194.0	1.2			G2/225
BL (0°-30°)	825.2	4.9	B2/1000		
BM (30°-60°)	1381.3	8.2	B2/2500		
BH (60°-80°)	775.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3
2.5°	2898.6	2912.2	2915.8	2924.9	2944.0	2959.4	2974.9	2973.1	2994.9	3004.0	3012.1
5°	2769.5	2773.2	2786.9	2805.0	2838.6	2881.3	2923.1	2924.0	2977.6	3020.3	3041.2
7.5°	2675.1	2686.9	2696.0	2715.1	2750.5	2796.9	2863.1	2868.6	2964.0	3048.5	3092.9
10°	2613.3	2627.0	2637.0	2660.6	2696.0	2747.8	2819.6	2829.5	2953.9	3092.9	3171.1
12.5°	2557.0	2570.7	2579.8	2610.6	2657.0	2720.5	2801.4	2813.2	2957.6	3144.8	3256.5
15°	2591.6	2602.5	2598.9	2607.9	2638.8	2711.5	2808.6	2820.4	2971.3	3194.7	3341.0
17.5°	2745.0	2754.1	2724.1	2689.7	2675.1	2728.7	2831.3	2844.1	2998.5	3246.5	3427.3
20°	2971.3	2995.8	2930.4	2853.2	2783.3	2790.5	2878.6	2892.2	3036.6	3298.2	3515.4
22.5°	3265.6	3283.7	3203.8	3076.6	2947.6	2881.3	2949.4	2957.6	3093.9	3365.5	3611.7
25°	3611.7	3622.5	3511.8	3348.2	3162.0	3036.6	3046.7	3061.1	3188.4	3441.8	3697.0
27.5°	3947.7	3982.3	3854.2	3654.3	3409.1	3200.1	3180.2	3189.2	3290.9	3484.4	3756.1
30°	4346.5	4343.8	4208.4	3976.8	3662.5	3378.2	3306.5	3304.6	3346.4	3505.3	3798.7
32.5°	4664.4	4701.7	4569.0	4316.5	3952.3	3562.6	3393.6	3390.0	3389.1	3541.7	3862.4
35°	5025.9	5031.4	4909.6	4655.3	4265.6	3794.2	3515.4	3497.2	3476.3	3619.8	3948.7
37.5°	5349.3	5374.7	5263.0	4977.8	4573.6	4035.0	3682.5	3670.7	3607.1	3755.2	4086.7
40°	5601.8	5620.9	5553.7	5282.1	4877.0	4294.8	3895.0	3873.3	3796.1	3976.8	4271.1
42.5°	5684.5	5723.6	5749.9	5616.4	5225.8	4602.6	4156.6	4129.4	4070.3	4312.9	4483.7
45°	5690.8	5752.6	5891.6	5897.9	5576.4	4971.4	4461.8	4442.8	4438.3	4743.4	4782.5
47.5°	5642.7	5705.4	5938.8	6065.1	5888.9	5343.9	4902.4	4872.5	4875.2	5275.8	5117.7
50°	5526.5	5601.0	5884.3	6172.3	6133.2	5730.9	5367.5	5357.5	5413.8	5883.5	5465.6
52.5°	5307.6	5397.5	5828.0	6239.5	6314.9	6064.2	5896.1	5868.0	6010.6	6542.9	5846.2
55°	4701.7	4837.0	5621.9	6276.8	6487.5	6383.0	6372.1	6423.0	6612.0	7262.3	6264.9
57.5°	4385.6	4487.3	5174.0	6283.1	6705.5	6753.7	6928.1	6940.7	7271.4	8026.3	6738.2
60°	4213.0	4302.9	4928.8	6241.4	7009.8	7212.4	7496.7	7542.1	7915.4	8853.8	7228.7
62.5°	4062.2	4139.4	4781.6	6096.9	7353.2	7892.7	8233.4	8255.2	8646.7	9767.6	7712.9
65°	3707.0	3795.1	4485.5	5952.4	7649.3	8743.0	9210.7	9185.3	9425.1	10556.0	8016.3
67.5°	3228.3	3340.0	3932.3	5453.8	7795.5	9672.2	10311.7	10279.9	10193.6	11072.9	8103.5
70°	2617.0	2676.9	3224.7	4591.7	7211.4	10160.0	11181.0	11147.4	10669.6	11141.0	7691.1
71°	2251.8	2345.4	2807.8	4078.6	6725.5	10011.0	11292.7	11283.7	10670.5	10953.0	7380.4
72.5°	1757.7	1814.9	2223.6	3160.2	5716.3	9164.5	11016.6	11051.1	10438.9	10430.7	6740.1
75°	1111.9	1137.2	1395.2	1860.3	3136.5	6490.2	9404.2	9497.8	9268.9	8537.7	5012.3
77.5°	645.8	678.5	835.7	1096.4	1355.3	3522.6	6729.1	6830.9	6440.3	4700.7	2052.0
80°	376.1	412.4	550.4	636.7	622.3	1307.1	3426.3	3599.8	2788.7	1187.3	575.9
82.5°	208.9	233.4	387.0	387.9	331.5	426.9	1078.2	1128.1	795.7	478.7	235.3
85°	151.7	171.7	249.8	226.2	158.9	183.5	375.1	393.3	321.6	201.6	76.3
87.5°	53.6	76.3	137.2	109.0	43.6	38.1	108.1	88.1	81.7	56.3	17.2
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°	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3	3000.3
2.5°	3016.7	3018.5	3009.4	2993.0	2976.7	2955.8	2932.2	2914.0	2905.9	2904.9	2904.0
5°	3049.4	3053.9	3019.4	2968.5	2912.2	2843.2	2784.1	2716.9	2699.6	2672.4	2680.6
7.5°	3102.0	3099.3	3031.2	2923.1	2791.4	2645.1	2521.6	2449.9	2375.4	2354.5	2355.3
10°	3177.4	3160.2	3031.2	2830.5	2610.6	2393.6	2220.9	2111.9	2052.9	2003.9	1985.7
12.5°	3257.4	3213.7	3002.1	2700.6	2378.0	2111.9	1926.6	1779.4	1741.3	1701.4	1702.2
15°	3333.7	3261.0	2944.9	2518.0	2127.4	1811.2	1631.4	1543.3	1531.5	1536.0	1535.1
17.5°	3402.7	3294.6	2857.7	2314.5	1834.9	1553.3	1457.9	1464.3	1496.1	1518.8	1521.5
20°	3472.7	3314.6	2727.8	2042.0	1558.7	1397.0	1400.7	1450.7	1498.8	1529.7	1534.2
22.5°	3539.0	3323.7	2575.2	1778.6	1358.9	1330.7	1384.3	1437.9	1485.2	1515.1	1519.6
25°	3582.5	3302.8	2359.0	1503.4	1260.8	1307.1	1363.4	1408.9	1448.9	1479.7	1487.0
27.5°	3594.4	3235.6	2091.1	1280.8	1215.4	1284.4	1336.2	1369.8	1400.7	1429.8	1435.2
30°	3588.0	3136.5	1796.8	1150.0	1189.1	1258.0	1298.1	1322.6	1359.8	1382.5	1387.1
32.5°	3578.0	3021.2	1489.7	1080.1	1167.2	1233.5	1257.2	1279.0	1278.1	1269.0	1275.4
35°	3581.7	2883.2	1240.8	1038.3	1148.2	1215.4	1235.3	1208.1	1130.0	1126.3	1122.7
37.5°	3600.7	2746.8	1060.0	1009.2	1138.2	1212.6	1223.6	1098.2	1029.2	997.4	989.2
40°	3649.8	2587.9	941.1	987.4	1137.2	1233.5	1170.0	1042.8	910.2	848.4	843.8
42.5°	3715.2	2431.7	868.4	973.7	1148.2	1265.3	1148.2	964.7	820.3	783.9	778.5
45°	3812.3	2252.8	828.4	967.4	1164.5	1277.2	1140.9	907.4	783.9	754.8	754.8
47.5°	3922.3	2082.0	806.6	962.9	1185.4	1269.0	1076.4	889.3	766.6	770.3	787.5
50°	4031.3	1933.9	790.3	952.8	1203.5	1264.5	1050.1	888.4	771.2	817.5	848.4
52.5°	4157.6	1829.4	770.3	936.5	1203.5	1235.3	1041.9	906.6	783.9	797.6	811.2
55°	4310.2	1796.8	744.9	901.1	1181.8	1162.7	1037.3	932.9	793.0	761.2	766.6
57.5°	4511.8	1849.4	720.4	856.6	1131.8	1087.3	1035.5	940.1	772.1	745.7	740.3
60°	4746.2	1953.9	713.1	811.2	1063.7	1022.8	1024.6	919.2	743.1	715.8	720.4
62.5°	4910.6	2016.5	708.5	776.7	989.2	952.0	998.3	893.8	730.3	706.7	711.3
65°	4910.6	1940.3	666.7	724.0	892.9	866.5	966.5	862.0	713.9	686.7	682.1
67.5°	4724.4	1717.7	603.1	645.0	786.6	769.4	922.0	823.9	689.4	668.5	657.6
70°	4239.3	1302.6	523.2	552.2	652.2	667.7	864.7	772.1	648.6	623.1	606.7
71°	4025.9	1134.6	489.6	505.0	600.4	623.1	837.5	750.3	630.4	594.1	565.0
72.5°	3614.3	955.6	438.7	445.1	513.3	554.1	780.3	708.5	595.9	544.1	511.4
75°	2746.0	697.7	353.4	349.7	379.7	439.7	660.4	631.3	522.3	452.3	433.3
77.5°	1186.3	379.7	264.3	267.1	258.0	333.4	519.6	542.3	447.8	367.9	350.6
80°	359.7	218.9	180.8	184.4	172.6	223.5	366.1	425.1	359.7	286.1	262.5
82.5°	184.4	130.8	123.6	121.8	109.9	126.3	221.7	290.6	257.1	178.9	158.1
85°	79.9	69.9	60.8	59.0	51.8	45.4	79.0	145.3	136.2	99.9	95.4
87.5°	20.0	18.2	11.8	10.9	6.3	0.9	0.0	0.0	0.0	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)