

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: P301093

Luminaire Tested: **GLNA-AF-03-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-T3R-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17909.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

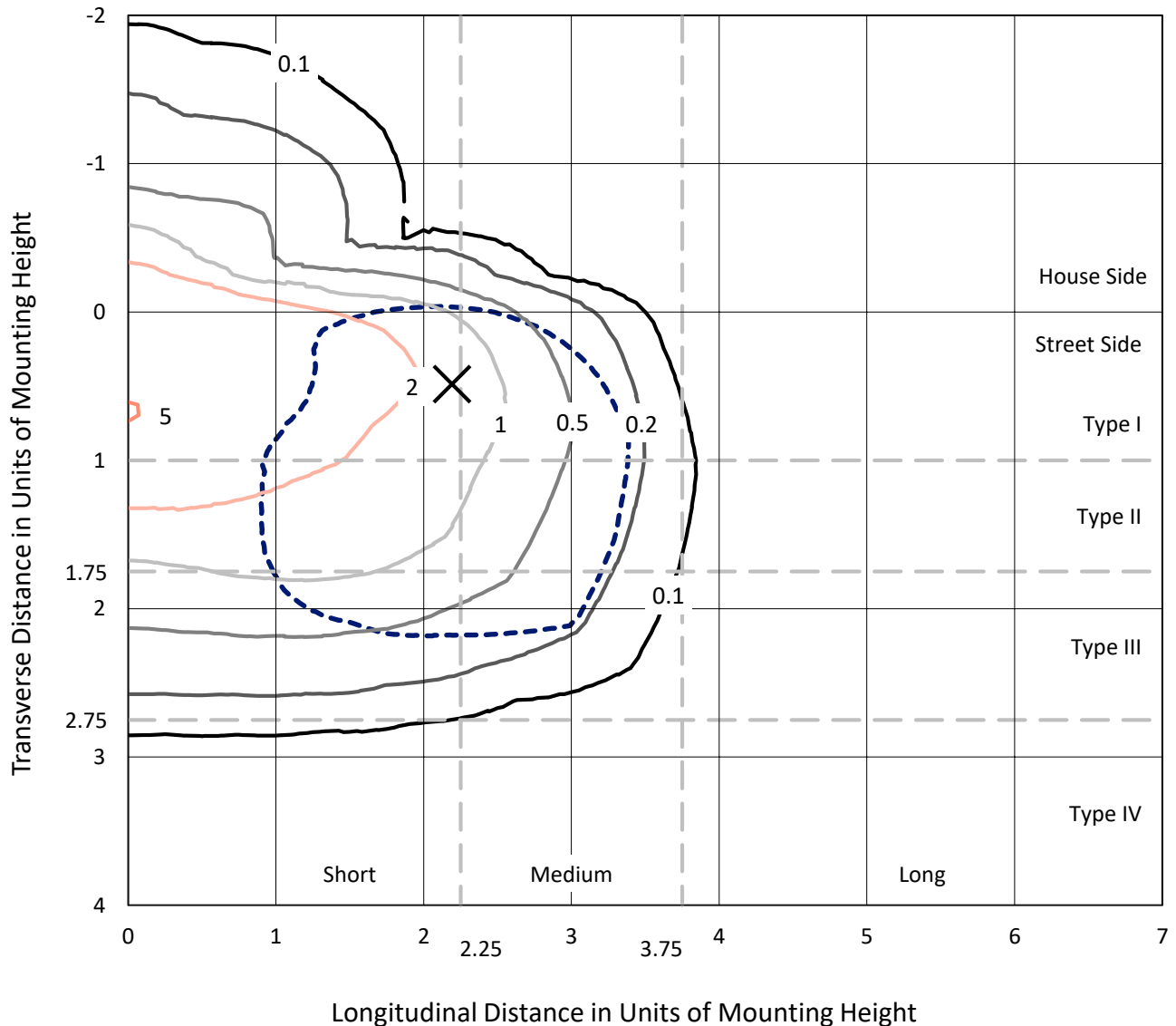
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

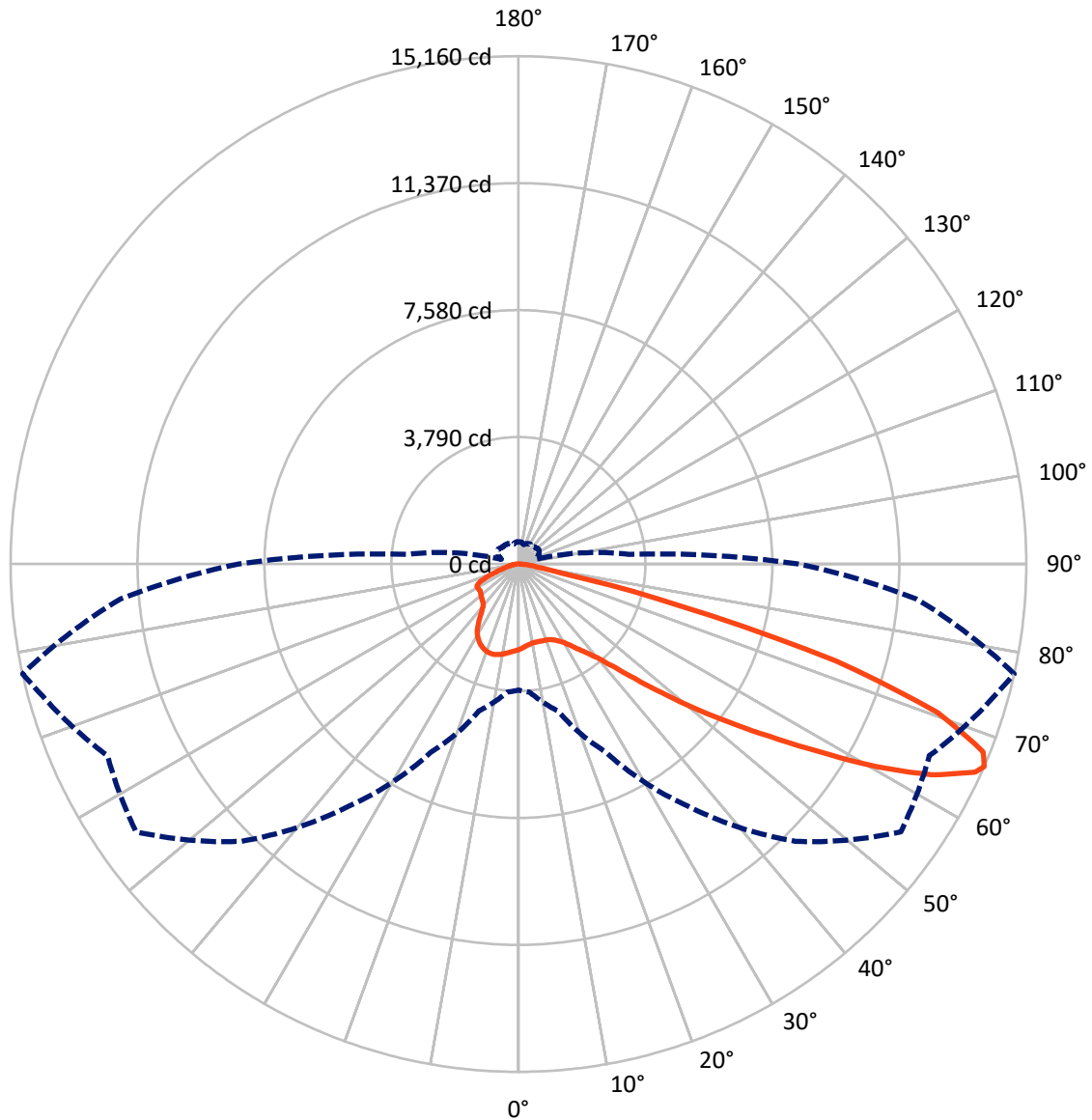


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3059.7	0.0	3059.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14849.4	0.0	14849.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	17909.1	0.0	17909.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.3
10°-20°	643.3	3.6
20°-30°	1097.8	6.1
30°-40°	1757.4	9.8
40°-50°	2715.0	15.2
50°-60°	3850.9	21.5
60°-70°	5151.4	28.8
70°-80°	2237.2	12.5
80°-90°	228.1	1.3
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°	17909.1	100.0
0°-180°	17909.1	100.0



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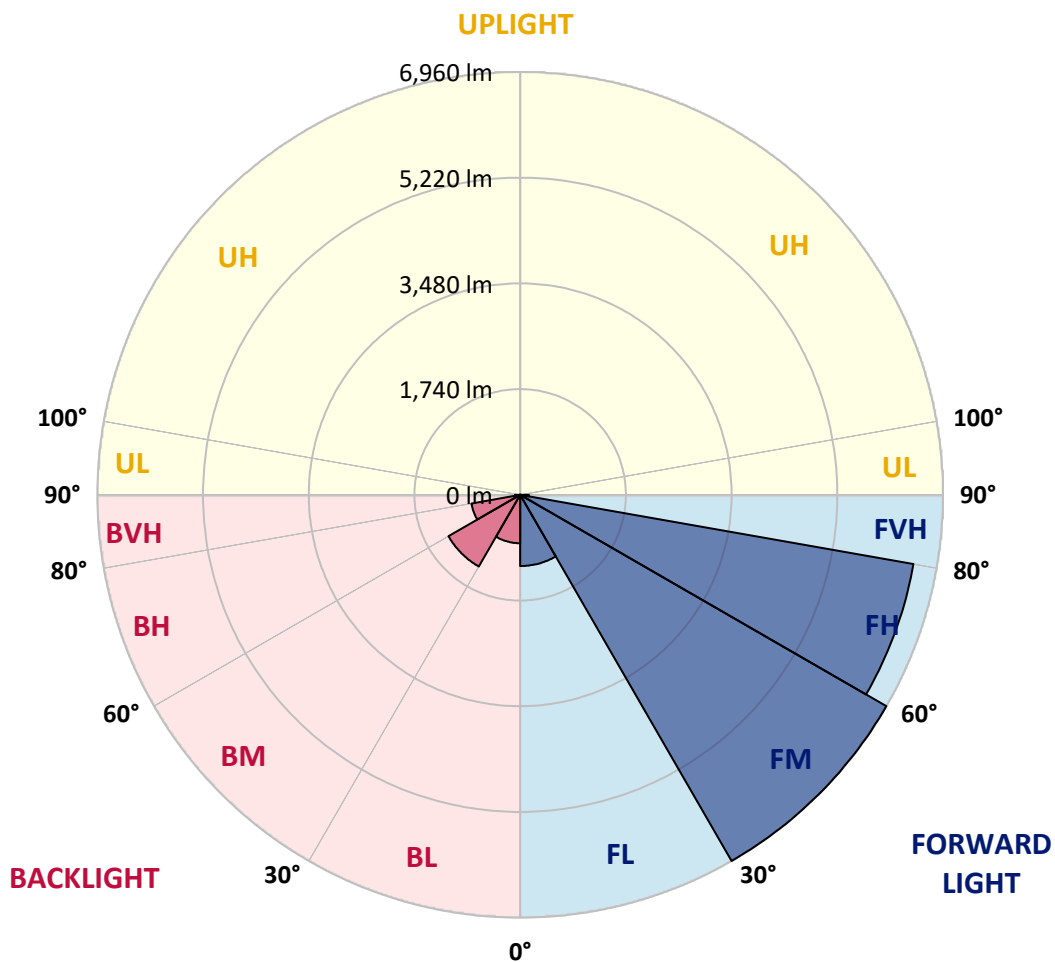
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1172.2	6.5			
FM	(30°-60°)	6960.4	38.9			
FH	(60°-80°)	6573.7	36.7			G3/7500
FVH	(80°-90°)	143.1	0.8			G2/225
BL	(0°-30°)	796.9	4.4	B2/1000		
BM	(30°-60°)	1362.9	7.6	B2/2500		
BH	(60°-80°)	814.9	4.5	B2/1000		G2/1000
BVH	(80°-90°)	85.0	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1
2.5°	2257.7	2272.8	2285.6	2297.4	2321.0	2359.9	2404.8	2441.2	2493.7	2503.9	2531.9
5°	2050.4	2050.4	2060.4	2078.4	2110.4	2168.8	2229.8	2311.0	2425.3	2452.2	2526.7
7.5°	1949.8	1950.5	1956.4	1971.5	1999.5	2052.7	2119.6	2215.4	2370.2	2415.0	2541.9
10°	1986.9	1978.4	1965.6	1958.2	1962.3	1993.6	2057.1	2163.7	2336.4	2393.8	2575.9
12.5°	2194.9	2179.1	2135.0	2076.6	2020.7	1997.9	2035.1	2139.1	2322.0	2388.9	2620.8
15°	2535.2	2528.5	2446.3	2325.4	2190.1	2076.6	2051.2	2129.9	2323.6	2394.8	2674.1
17.5°	2961.8	2952.3	2844.2	2668.2	2447.3	2226.5	2107.8	2137.6	2329.5	2404.8	2725.6
20°	3392.5	3363.5	3246.9	3037.1	2753.5	2430.1	2201.9	2157.0	2337.1	2415.8	2779.9
22.5°	3714.0	3690.2	3585.4	3381.4	3054.8	2666.4	2327.9	2190.8	2361.7	2448.1	2846.5
25°	3996.6	3998.1	3894.1	3697.1	3359.4	2916.9	2490.4	2281.3	2424.3	2513.9	2938.0
27.5°	4346.1	4325.8	4228.5	4033.0	3660.7	3169.8	2686.6	2405.8	2517.5	2608.0	3058.1
30°	4764.0	4749.6	4637.1	4415.5	3994.8	3441.4	2910.8	2550.3	2637.7	2731.4	3215.4
32.5°	5255.6	5249.0	5132.1	4847.0	4380.7	3761.4	3174.2	2741.7	2817.0	2914.4	3441.4
35°	5832.9	5833.6	5695.8	5353.0	4802.9	4133.7	3472.7	2987.9	3035.3	3136.8	3710.7
37.5°	6188.2	6231.3	6179.8	5830.3	5281.0	4550.0	3860.3	3314.6	3284.1	3386.6	3999.2
40°	6264.3	6316.8	6480.0	6302.5	5815.9	5008.6	4203.9	3628.4	3590.5	3715.5	4370.7
42.5°	6157.7	6230.5	6575.9	6700.9	6383.7	5573.8	4665.8	4094.7	4046.6	4214.9	4832.6
45°	6094.2	6148.5	6547.9	6908.4	6876.1	6212.8	5254.1	4680.2	4662.5	4883.3	5365.8
47.5°	5984.3	6033.5	6417.5	6956.6	7165.7	6798.3	5960.7	5396.3	5430.9	5720.4	5967.4
50°	6043.5	6063.7	6272.0	6833.9	7249.4	7227.4	6750.1	6225.4	6344.0	6705.3	6648.6
52.5°	6035.0	6087.5	6255.1	6632.5	7260.5	7492.3	7527.7	7150.3	7400.1	7814.6	7404.2
55°	4879.2	4975.6	6056.3	6581.8	7299.1	7751.9	8220.0	8125.2	8590.4	9073.6	8257.1
57.5°	4659.2	4720.1	5319.2	6688.3	7505.6	8247.9	8989.9	9198.2	9976.5	10537.6	9296.3
60°	4615.9	4691.2	5311.5	6818.8	7924.5	9056.0	10131.5	10497.1	11663.2	12277.5	10501.2
62.5°	4481.4	4562.6	5261.5	6801.6	8519.5	10173.8	11593.0	11878.1	13262.4	13859.9	11509.2
65°	4055.0	4131.1	4854.7	6528.5	8920.7	11367.0	13322.4	13144.0	14525.0	14974.1	12011.6
66°	3762.9	3837.5	4533.9	6206.9	8827.4	11705.4	13935.2	13535.8	14807.6	15159.6	11913.5
67.5°	3229.0	3287.4	3911.0	5486.7	8332.4	11800.2	14450.5	13830.2	14837.1	14961.6	11352.6
70°	2040.2	2057.1	2541.9	3787.5	6307.6	10233.8	13665.9	13099.2	13613.7	13276.8	9517.1
72.5°	885.2	879.3	1220.3	1926.7	3571.0	6866.9	11054.7	10808.4	10679.1	9910.7	6662.2
75°	492.4	499.4	633.9	894.4	1451.2	3373.0	7231.5	6920.2	5842.9	4985.8	3021.0
77.5°	395.1	404.6	525.5	634.6	651.5	1176.3	3384.0	2753.5	1657.7	1330.2	839.3
80°	312.3	329.2	458.6	494.2	439.1	484.7	1093.2	874.2	655.9	601.6	435.0
82.5°	247.0	259.0	393.5	374.1	307.2	326.7	523.7	510.4	426.6	388.4	251.3
85°	177.8	199.6	323.3	281.8	201.4	220.1	347.7	333.3	244.4	199.6	110.9
87.5°	72.8	94.8	228.5	187.0	112.5	102.5	173.5	163.2	115.8	84.5	55.1
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°	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1	2552.1
2.5°	2549.5	2569.8	2596.2	2612.3	2620.8	2626.7	2635.9	2635.1	2637.7	2638.4	2641.8
5°	2566.4	2600.3	2638.4	2648.7	2648.7	2639.2	2630.0	2614.6	2608.7	2607.2	2608.7
7.5°	2610.5	2647.7	2680.7	2668.9	2643.6	2606.2	2558.0	2515.7	2492.9	2485.2	2483.7
10°	2666.4	2711.2	2724.8	2679.9	2605.4	2515.7	2420.2	2350.7	2311.0	2300.0	2296.7
12.5°	2734.0	2776.3	2757.8	2663.0	2524.9	2380.4	2248.2	2137.6	2054.5	2028.4	2026.6
15°	2808.6	2841.6	2776.3	2610.5	2404.8	2191.6	1956.4	1765.3	1662.0	1629.0	1626.4
17.5°	2878.0	2894.9	2765.3	2519.0	2228.0	1882.9	1570.6	1423.2	1387.9	1396.3	1397.9
20°	2937.2	2937.2	2728.1	2387.9	1949.8	1475.8	1278.5	1276.2	1301.5	1326.9	1332.0
22.5°	3002.3	2963.3	2663.0	2202.6	1555.2	1207.5	1178.8	1202.4	1231.1	1259.0	1263.4
25°	3082.7	2984.6	2572.3	1921.8	1222.6	1096.6	1107.6	1127.1	1141.4	1159.3	1161.9
27.5°	3172.4	3011.5	2453.2	1534.9	1061.2	1027.4	1035.9	1042.5	1040.7	1047.6	1049.2
30°	3279.7	3043.0	2289.7	1199.8	994.3	968.0	952.8	946.9	946.9	958.0	962.1
32.5°	3423.7	3089.4	2055.3	1028.2	962.1	925.7	876.7	854.7	863.2	900.3	908.8
35°	3582.1	3139.3	1738.1	969.8	955.4	906.2	830.1	789.4	790.4	825.0	836.0
37.5°	3754.5	3202.9	1390.2	958.7	970.5	907.2	805.5	749.7	726.9	726.9	731.2
40°	3975.3	3267.9	1125.5	966.4	1002.8	917.2	793.0	718.4	654.1	655.9	659.2
42.5°	4263.1	3323.8	983.3	982.3	1041.7	930.8	791.9	676.9	621.1	659.2	693.8
45°	4583.1	3351.7	920.6	996.9	1073.0	939.3	778.6	670.2	625.4	738.7	804.8
47.5°	4951.0	3335.6	886.0	1001.8	1080.7	939.3	763.2	686.4	654.9	855.5	932.6
50°	5354.8	3289.2	852.2	991.8	1078.1	937.5	777.6	702.3	665.9	875.7	929.0
52.5°	5829.5	3250.3	816.5	969.8	1060.2	928.2	794.5	695.6	631.3	796.3	833.4
55°	6370.9	3261.3	776.8	938.5	1032.3	910.6	788.6	668.4	594.9	701.5	724.3
57.5°	7063.2	3392.5	729.4	898.8	994.3	880.8	767.6	655.9	583.9	636.4	650.0
60°	7835.6	3620.7	670.2	858.8	946.9	833.4	751.5	661.8	589.0	631.3	638.0
62.5°	8402.6	3753.7	619.5	800.4	882.6	780.9	731.2	669.2	602.6	649.0	647.4
65°	8556.6	3535.4	556.0	715.1	795.5	726.1	705.6	677.7	608.5	663.3	655.9
66°	8340.9	3300.2	528.0	675.4	751.5	698.9	693.0	676.9	605.9	665.1	652.3
67.5°	7817.2	2817.8	479.9	617.0	681.3	658.5	672.8	669.2	599.0	663.3	645.6
70°	6375.3	1922.6	410.4	513.7	567.0	579.5	633.9	642.3	577.0	633.9	594.9
72.5°	4454.5	1171.1	363.0	398.7	458.6	494.2	580.6	604.9	547.5	553.4	516.3
75°	2152.7	622.1	329.2	309.0	356.1	413.0	516.3	554.2	500.9	463.0	449.4
77.5°	671.0	380.0	279.3	248.8	279.3	333.3	431.5	485.8	446.1	387.6	382.5
80°	360.5	279.3	215.0	199.6	220.9	261.6	339.2	405.3	383.3	347.7	310.5
82.5°	237.8	181.1	159.1	154.8	168.3	199.6	252.1	335.9	335.9	298.0	216.8
85°	122.7	110.9	109.1	109.1	117.6	133.0	171.7	259.0	275.9	157.3	130.4
87.5°	61.0	63.5	59.2	61.7	66.1	65.1	82.0	130.4	155.8	95.6	79.4
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)