

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: P192273

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T3R-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20041 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

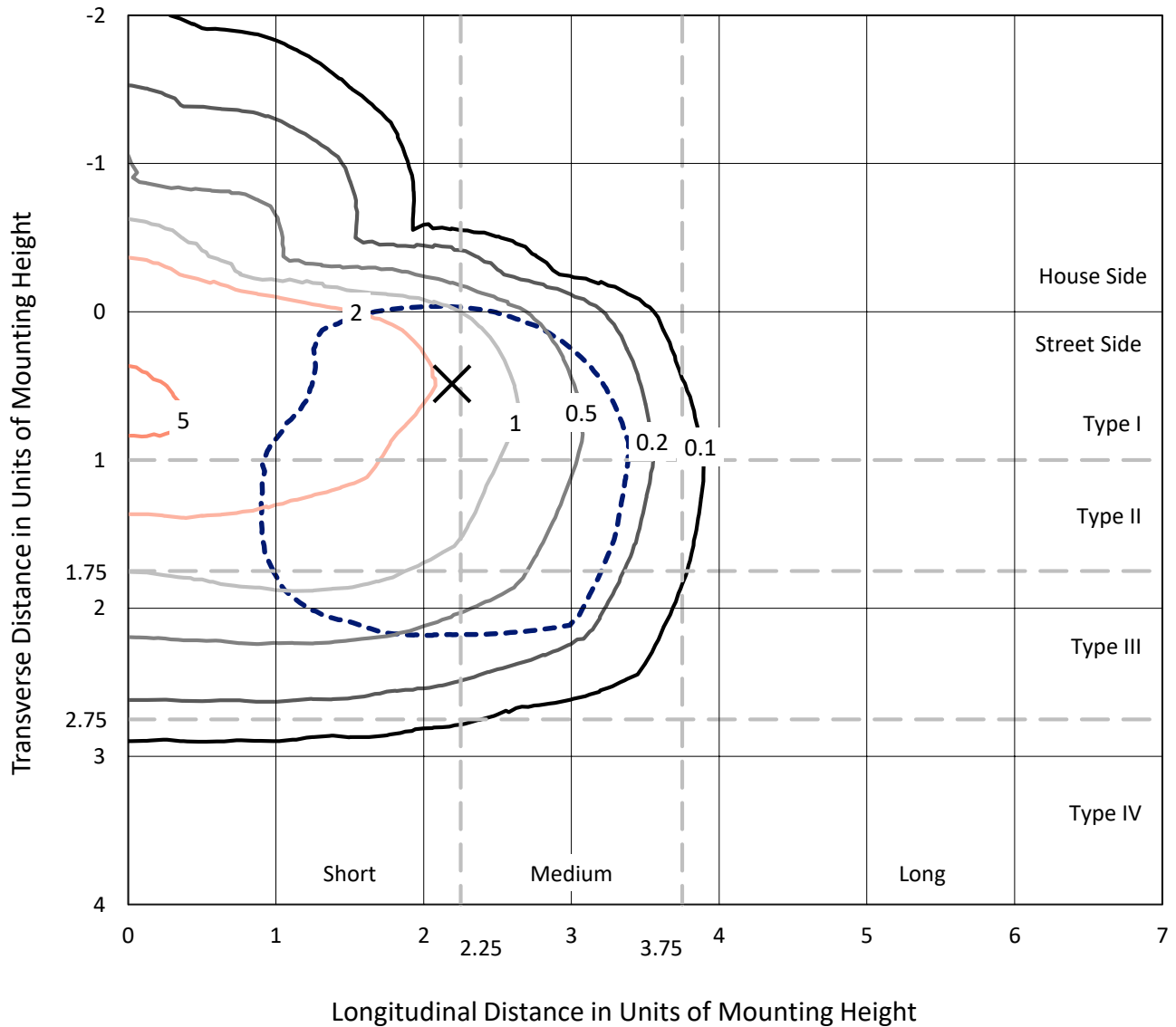


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

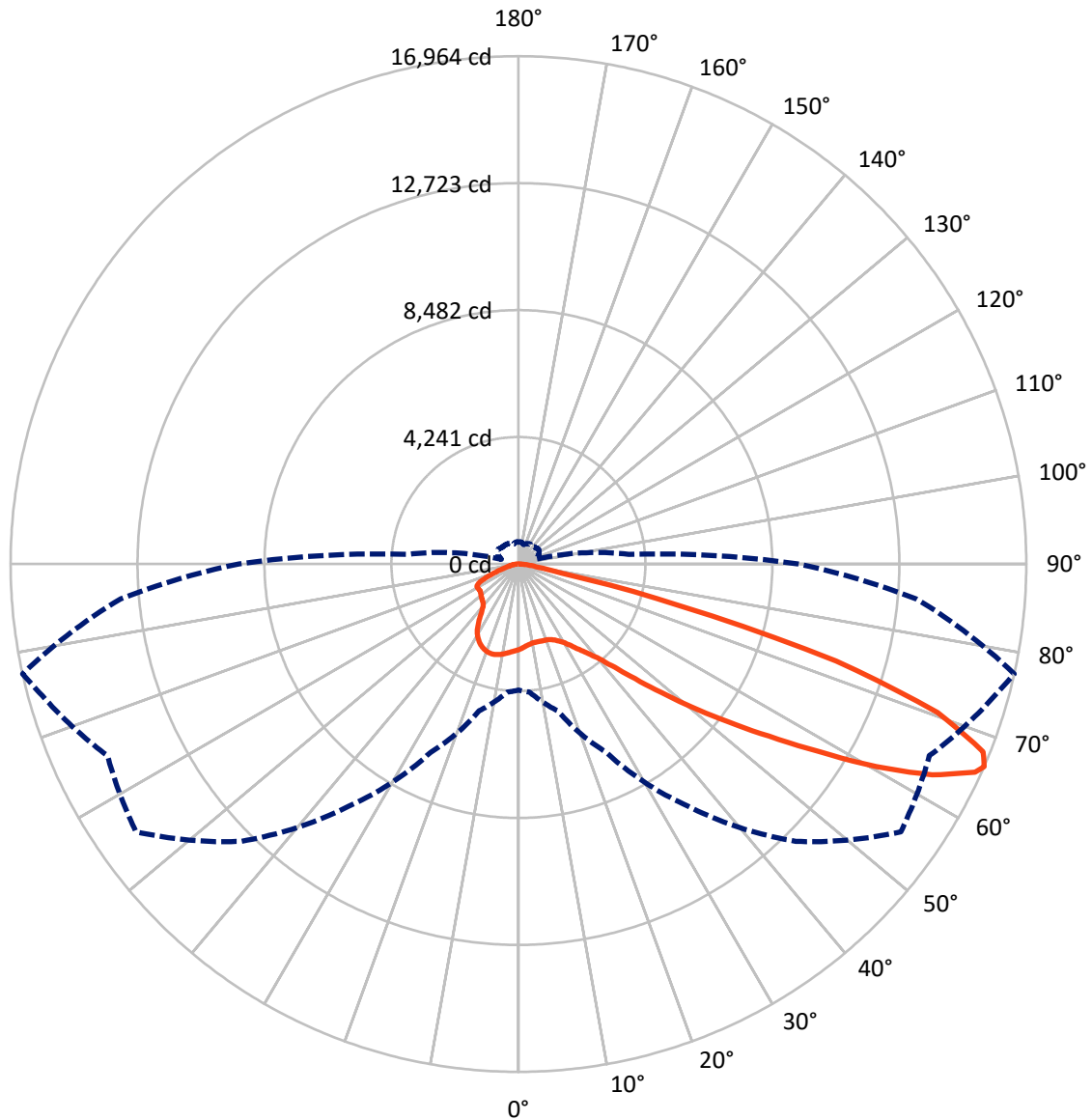


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

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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	3423.9	0.0	3423.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16617.1	0.0	16617.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	20041.0	0.0	20041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	1.3
10°-20°	719.8	3.6
20°-30°	1228.5	6.1
30°-40°	1966.6	9.8
40°-50°	3038.2	15.2
50°-60°	4309.3	21.5
60°-70°	5764.6	28.8
70°-80°	2503.5	12.5
80°-90°	255.3	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°	20041.0	100.0
0°-180°	20041.0	100.0



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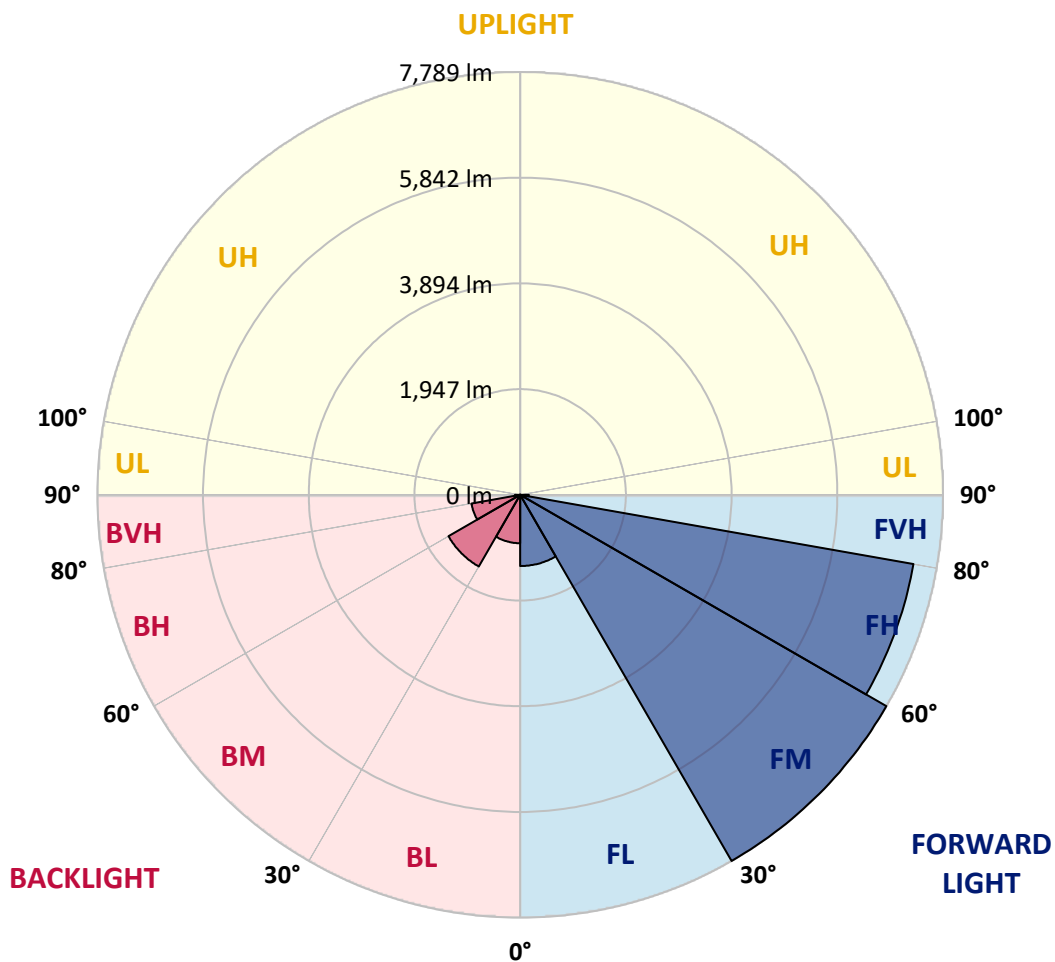
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.8	6.5			
FM (30°-60°)	7789.0	38.9			
FH (60°-80°)	7356.3	36.7			G3/7500
FVH (80°-90°)	160.1	0.8			G2/225
BL (0°-30°)	891.7	4.4	B2/1000		
BM (30°-60°)	1525.1	7.6	B2/2500		
BH (60°-80°)	911.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	95.2	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°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	2526.4	2543.5	2557.7	2570.9	2597.4	2641.0	2691.2	2731.9	2790.6	2802.0	2833.2
5°	2294.4	2294.4	2305.8	2325.7	2361.6	2427.0	2495.2	2586.1	2713.9	2744.2	2827.5
7.5°	2181.7	2182.7	2189.3	2206.3	2237.6	2297.2	2372.1	2479.1	2652.3	2702.5	2844.6
10°	2223.4	2213.9	2199.7	2191.2	2195.9	2231.0	2302.0	2421.3	2614.5	2678.9	2882.5
12.5°	2456.3	2438.3	2389.1	2323.8	2261.3	2235.7	2277.4	2393.8	2598.4	2673.2	2932.6
15°	2837.0	2829.4	2737.6	2602.2	2450.7	2323.8	2295.4	2383.4	2600.3	2679.8	2992.3
17.5°	3314.3	3303.8	3182.6	2985.7	2738.5	2491.4	2358.8	2391.9	2606.9	2691.2	3050.1
20°	3796.2	3764.0	3633.4	3398.5	3081.3	2719.6	2463.9	2413.7	2615.4	2703.5	3110.7
22.5°	4156.1	4129.6	4012.1	3783.9	3418.4	2983.8	2605.0	2451.6	2642.9	2739.5	3185.5
25°	4472.3	4474.2	4357.8	4137.1	3759.3	3264.1	2786.8	2552.9	2713.0	2813.3	3287.7
27.5°	4863.4	4840.7	4731.8	4513.1	4096.4	3547.2	3006.5	2692.1	2817.1	2918.4	3422.2
30°	5331.2	5315.1	5189.2	4941.1	4470.5	3851.2	3257.4	2854.0	2951.6	3056.7	3598.3
32.5°	5881.4	5873.8	5743.1	5424.0	4902.3	4209.1	3551.9	3068.0	3152.3	3261.2	3851.2
35°	6527.2	6528.1	6373.8	5990.3	5374.8	4625.7	3886.2	3343.6	3396.6	3510.3	4152.3
37.5°	6924.9	6973.2	6915.4	6524.3	5909.8	5091.6	4319.9	3709.1	3675.0	3789.6	4475.2
40°	7010.1	7068.8	7251.6	7052.7	6508.2	5604.9	4704.3	4060.4	4017.8	4158.0	4890.9
42.5°	6890.8	6972.2	7358.6	7498.7	7143.6	6237.4	5221.4	4582.2	4528.2	4716.7	5407.9
45°	6819.8	6880.4	7327.3	7730.7	7694.7	6952.4	5879.5	5237.5	5217.6	5464.7	6004.5
47.5°	6696.7	6751.6	7181.5	7784.7	8018.6	7607.6	6670.2	6038.6	6077.4	6401.2	6677.7
50°	6763.0	6785.7	7018.6	7647.4	8112.3	8087.7	7553.7	6966.6	7099.1	7503.5	7440.0
52.5°	6753.5	6812.2	6999.7	7422.0	8124.7	8384.1	8423.9	8001.5	8280.9	8744.9	8285.6
55°	5460.0	5567.9	6777.2	7365.2	8168.2	8674.8	9198.5	9092.4	9613.2	10153.9	9240.1
57.5°	5213.8	5282.0	5952.4	7484.5	8399.3	9229.7	10060.2	10293.1	11164.3	11792.1	10403.0
60°	5165.5	5249.8	5943.9	7630.4	8868.0	10134.0	11337.6	11746.7	13051.5	13739.0	11751.4
62.5°	5014.9	5105.8	5888.0	7611.4	9533.7	11384.9	12972.9	13292.0	14841.2	15509.7	12879.2
65°	4537.7	4622.9	5432.5	7305.6	9982.5	12720.1	14908.4	14708.6	16254.0	16756.9	13441.7
66°	4211.0	4294.3	5073.6	6945.7	9878.4	13098.9	15594.0	15147.1	16570.3	16964.2	13331.8
67.5°	3613.5	3678.8	4376.7	6139.9	9324.4	13204.9	16170.7	15476.6	16603.5	16742.7	12704.0
70°	2283.0	2302.0	2844.6	4238.5	7058.4	11452.2	15292.9	14658.5	15234.2	14857.3	10650.1
72.5°	990.5	983.9	1365.5	2156.2	3996.0	7684.3	12370.7	12095.1	11950.2	11090.4	7455.2
75°	551.1	558.7	709.2	1000.9	1624.0	3774.5	8092.5	7744.0	6538.5	5579.3	3380.5
77.5°	442.2	452.6	588.0	710.2	729.1	1316.2	3786.8	3081.3	1855.0	1488.6	939.4
80°	349.4	368.4	513.2	553.0	491.5	542.6	1223.4	978.2	733.9	673.3	486.7
82.5°	276.5	289.8	440.3	418.5	343.7	365.5	586.1	571.0	477.3	434.6	281.2
85°	198.9	223.5	361.7	315.3	225.4	246.2	389.2	373.1	273.7	223.5	124.0
87.5°	81.4	106.1	255.7	209.3	125.9	114.6	194.1	182.8	129.7	94.7	61.6
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°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	2853.1	2875.8	2905.2	2923.2	2932.6	2939.3	2949.7	2948.7	2951.6	2952.5	2956.3
5°	2872.0	2909.9	2952.5	2963.9	2963.9	2953.5	2943.1	2926.0	2919.4	2917.5	2919.4
7.5°	2921.3	2962.9	2999.9	2986.6	2958.2	2916.5	2862.6	2815.2	2789.7	2781.1	2779.2
10°	2983.8	3034.0	3049.1	2998.9	2915.6	2815.2	2708.2	2630.6	2586.1	2573.8	2570.0
12.5°	3059.5	3106.9	3086.0	2980.0	2825.6	2663.7	2516.0	2391.9	2299.1	2269.8	2267.9
15°	3142.9	3179.8	3106.9	2921.3	2691.2	2452.5	2189.3	1975.3	1859.8	1822.8	1820.0
17.5°	3220.5	3239.4	3094.6	2819.0	2493.3	2106.9	1757.5	1592.7	1553.0	1562.4	1564.3
20°	3286.8	3286.8	3052.9	2672.2	2181.7	1651.4	1430.8	1428.0	1456.4	1484.8	1490.5
22.5°	3359.7	3316.1	2980.0	2464.9	1740.5	1351.3	1319.1	1345.6	1377.8	1409.0	1413.8
25°	3449.7	3339.8	2878.7	2150.5	1368.3	1227.2	1239.5	1261.3	1277.4	1297.3	1300.1
27.5°	3550.0	3370.1	2745.1	1717.7	1187.4	1149.6	1159.0	1166.6	1164.7	1172.3	1174.2
30°	3670.3	3405.2	2562.4	1342.7	1112.6	1083.3	1066.2	1059.6	1059.6	1071.9	1076.7
32.5°	3831.3	3457.2	2300.1	1150.5	1076.7	1035.9	981.0	956.4	965.9	1007.5	1017.0
35°	4008.4	3513.1	1945.0	1085.2	1069.1	1014.2	928.9	883.5	884.4	923.3	935.6
37.5°	4201.5	3584.1	1555.8	1072.9	1086.1	1015.1	901.5	839.0	813.4	813.4	818.1
40°	4448.7	3657.0	1259.4	1081.4	1122.1	1026.5	887.3	803.9	732.0	733.9	737.7
42.5°	4770.6	3719.5	1100.3	1099.4	1165.7	1041.6	886.3	757.5	695.0	737.7	776.5
45°	5128.6	3750.8	1030.3	1115.5	1200.7	1051.1	871.2	750.0	699.8	826.7	900.5
47.5°	5540.5	3732.8	991.4	1121.2	1209.2	1051.1	854.1	768.0	732.9	957.3	1043.5
50°	5992.2	3680.7	953.6	1109.8	1206.4	1049.2	870.2	786.0	745.2	980.1	1039.7
52.5°	6523.4	3637.2	913.8	1085.2	1186.5	1038.8	889.2	778.4	706.4	891.1	932.7
55°	7129.4	3649.5	869.3	1050.1	1155.3	1018.9	882.5	748.1	665.7	785.0	810.6
57.5°	7904.0	3796.2	816.3	1005.6	1112.6	985.8	858.9	733.9	653.4	712.1	727.2
60°	8768.6	4051.9	750.0	961.1	1059.6	932.7	840.9	740.5	659.1	706.4	714.0
62.5°	9403.0	4200.6	693.2	895.8	987.6	874.0	818.1	749.0	674.2	726.3	724.4
65°	9575.3	3956.3	622.1	800.2	890.1	812.5	789.7	758.5	680.8	742.4	733.9
66°	9333.9	3693.0	590.9	755.6	840.9	782.2	775.5	757.5	678.0	744.3	730.1
67.5°	8747.7	3153.3	536.9	690.3	762.3	736.7	752.8	749.0	670.4	742.4	722.5
70°	7134.2	2151.4	459.3	574.8	634.4	648.6	709.2	718.7	645.8	709.2	665.7
72.5°	4984.6	1310.5	406.2	446.0	513.2	553.0	649.6	677.1	612.7	619.3	577.6
75°	2409.0	696.0	368.4	345.6	398.7	462.1	577.6	620.2	560.6	518.0	502.8
77.5°	750.9	425.2	312.5	278.4	312.5	373.1	482.9	543.5	499.0	433.7	428.0
80°	403.4	312.5	240.5	223.5	247.1	292.6	379.7	453.6	429.0	389.2	347.5
82.5°	266.1	202.6	178.0	173.3	188.4	223.5	282.2	375.9	375.9	333.3	242.4
85°	137.3	124.0	122.2	122.2	131.6	148.7	192.2	289.8	308.7	176.1	145.8
87.5°	68.2	71.0	66.3	69.1	73.9	72.9	91.9	145.8	174.2	107.0	89.0
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)