

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: P191482

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191482
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-04-LED-E1-T3R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20290.2 lumens
Efficiency: N/A
Efficacy: 118.7 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): 171
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

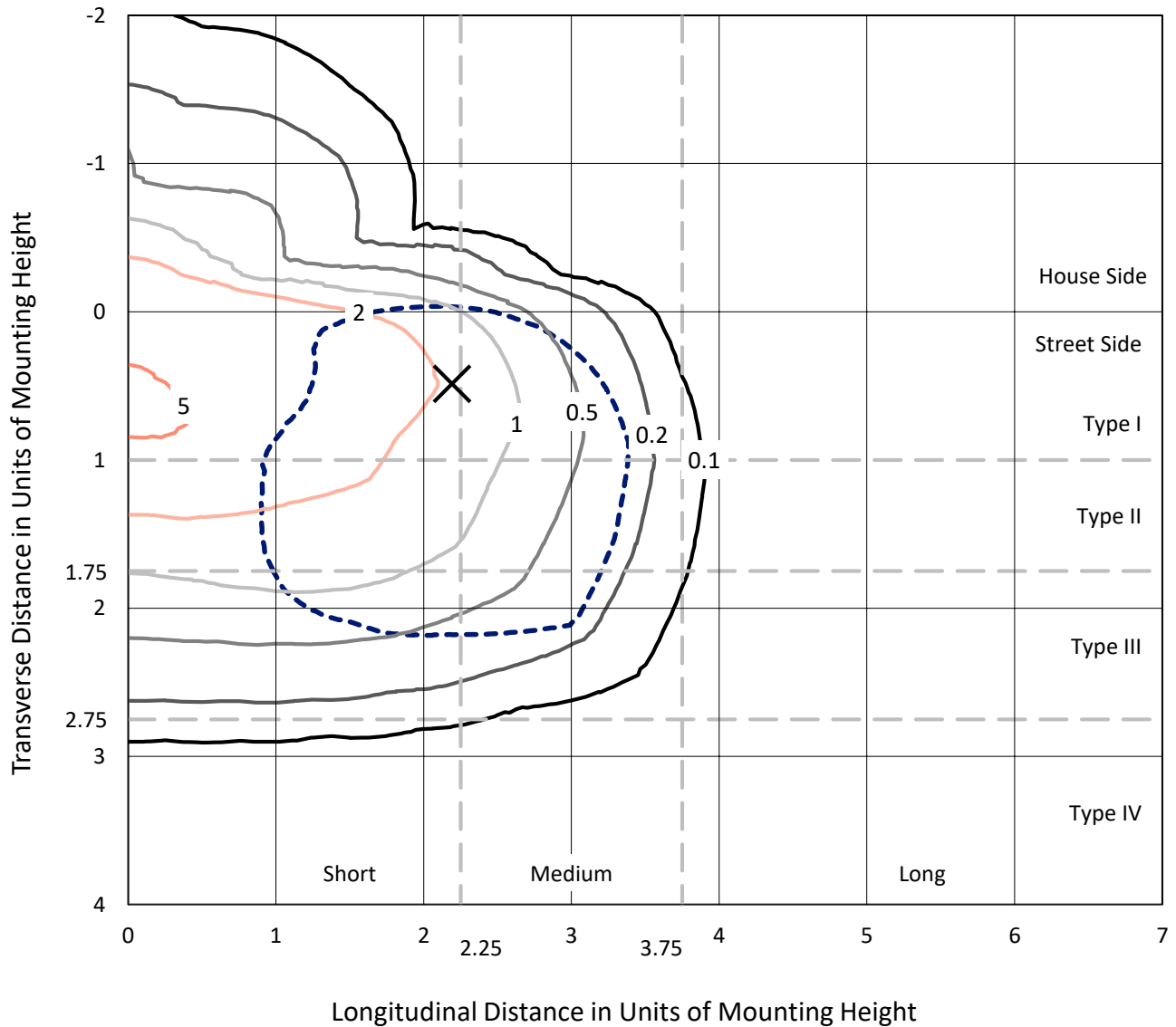


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

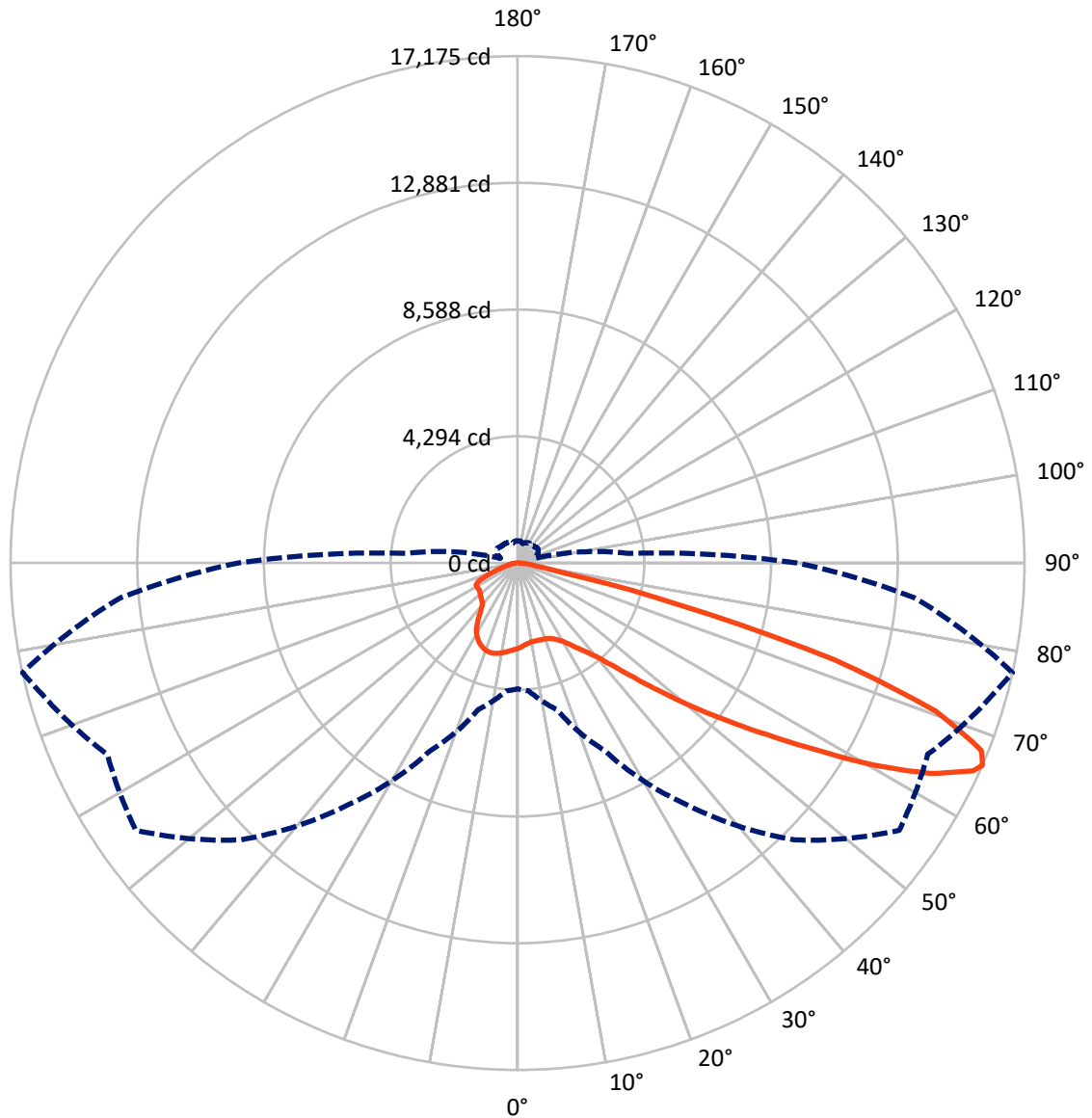


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - Full Cutoff

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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	3466.5	0.0	3466.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16823.8	0.0	16823.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	20290.2	0.0	20290.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	1.3
10°-20°	728.8	3.6
20°-30°	1243.8	6.1
30°-40°	1991.1	9.8
40°-50°	3076.0	15.2
50°-60°	4362.8	21.5
60°-70°	5836.3	28.8
70°-80°	2534.6	12.5
80°-90°	258.5	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°	20290.2	100.0
0°-180°	20290.2	100.0



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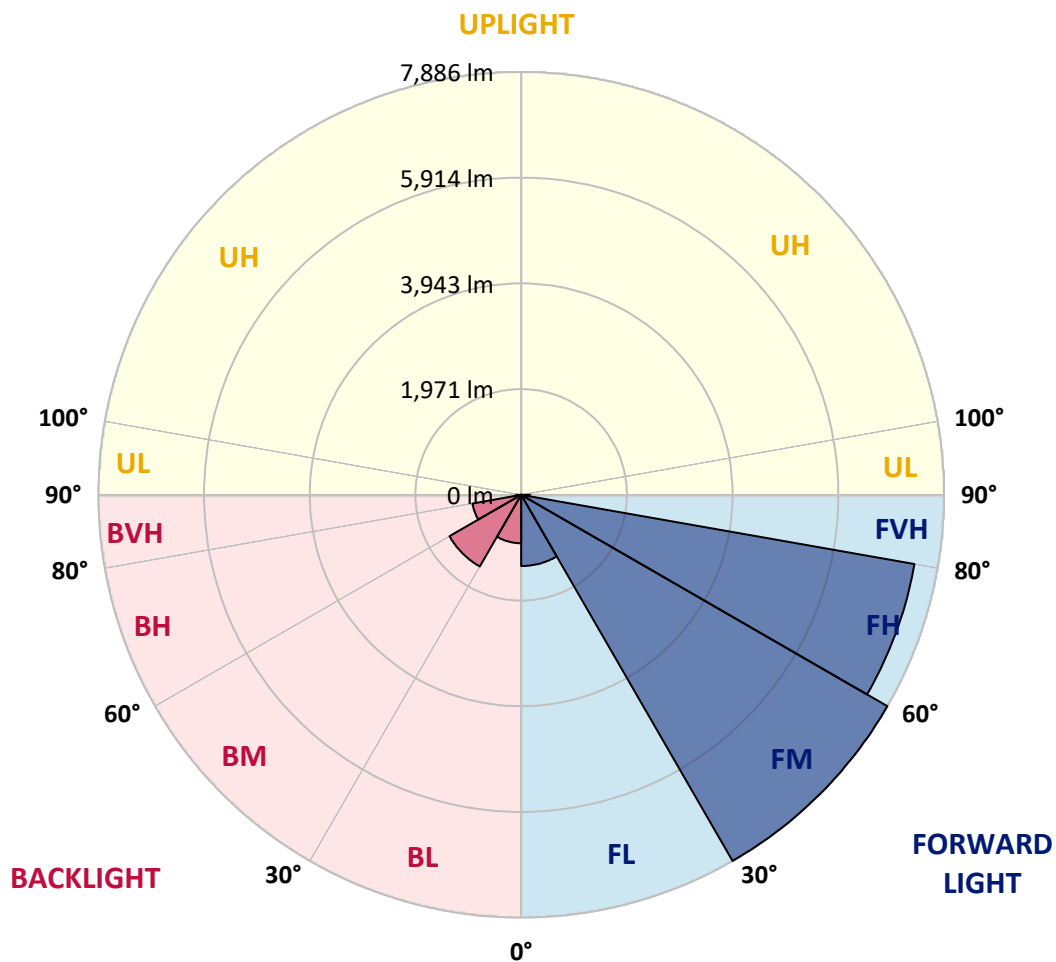
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.1	6.5			
FM	(30°-60°)	7885.8	38.9			
FH	(60°-80°)	7447.7	36.7			G3/7500
FVH	(80°-90°)	162.1	0.8			G2/225
BL	(0°-30°)	902.8	4.4	B2/1000		
BM	(30°-60°)	1544.1	7.6	B2/2500		
BH	(60°-80°)	923.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	96.4	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°	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5
2.5°	2557.8	2575.1	2589.5	2602.9	2629.7	2673.8	2724.6	2765.9	2825.3	2836.8	2868.5
5°	2322.9	2322.9	2334.5	2354.6	2391.0	2457.1	2526.2	2618.2	2747.6	2778.3	2862.7
7.5°	2208.9	2209.8	2216.5	2233.8	2265.4	2325.8	2401.6	2509.9	2685.3	2736.2	2879.9
10°	2251.0	2241.5	2227.1	2218.5	2223.3	2258.7	2330.6	2451.4	2647.0	2712.1	2918.3
12.5°	2486.9	2468.7	2418.8	2352.7	2289.4	2263.5	2305.7	2423.6	2630.7	2706.4	2969.1
15°	2872.2	2864.6	2771.6	2634.5	2481.2	2352.7	2323.9	2413.0	2632.6	2713.2	3029.5
17.5°	3355.5	3344.9	3222.2	3022.8	2772.6	2522.4	2388.2	2421.7	2639.3	2724.6	3088.0
20°	3843.4	3810.9	3678.5	3440.8	3119.6	2753.4	2494.6	2443.7	2647.9	2737.1	3149.4
22.5°	4207.8	4180.9	4062.0	3831.0	3460.9	3020.9	2637.4	2482.1	2675.7	2773.5	3225.1
25°	4528.0	4529.8	4412.0	4188.6	3806.1	3304.6	2821.5	2584.7	2746.7	2848.3	3328.6
27.5°	4923.9	4900.9	4790.7	4569.2	4147.3	3591.3	3043.9	2725.6	2852.2	2954.7	3464.7
30°	5397.5	5381.2	5253.7	5002.5	4526.0	3899.1	3298.0	2889.5	2988.2	3094.7	3643.0
32.5°	5954.5	5946.8	5814.6	5491.5	4963.3	4261.4	3596.1	3106.2	3191.5	3301.8	3899.1
35°	6608.4	6609.3	6453.1	6064.8	5441.6	4683.3	3934.6	3385.1	3438.9	3553.9	4203.9
37.5°	7011.0	7059.9	7001.4	6605.5	5983.2	5155.0	4373.6	3755.3	3720.8	3836.8	4530.9
40°	7097.3	7156.8	7341.7	7140.4	6589.1	5674.6	4762.9	4110.9	4067.8	4209.6	4951.7
42.5°	6976.5	7059.0	7450.0	7592.0	7232.5	6315.0	5286.3	4639.2	4584.6	4775.3	5475.1
45°	6904.6	6966.0	7418.4	7826.9	7790.5	7038.8	5952.6	5302.6	5282.4	5532.7	6079.2
47.5°	6779.9	6835.6	7270.8	7881.5	8118.3	7702.2	6753.1	6113.7	6152.9	6480.8	6760.8
50°	6847.1	6870.0	7105.9	7742.5	8213.3	8188.3	7647.6	7053.1	7187.5	7596.7	7532.5
52.5°	6837.5	6896.9	7086.7	7514.3	8225.6	8488.3	8528.6	8101.1	8383.9	8853.6	8388.7
55°	5527.9	5637.2	6861.4	7456.8	8269.7	8782.6	9312.8	9205.5	9732.8	10280.1	9355.1
57.5°	5278.6	5347.7	6026.4	7577.6	8503.7	9344.5	10185.3	10421.1	11303.1	11938.8	10532.3
60°	5229.7	5315.0	6017.8	7725.2	8978.2	10260.1	11478.5	11892.7	13213.9	13909.9	11897.5
62.5°	5077.3	5169.4	5961.2	7706.1	9652.3	11526.5	13134.3	13457.3	15025.8	15702.6	13039.3
65°	4594.1	4680.4	5500.1	7396.4	10106.7	12878.2	15093.8	14891.6	16456.2	16965.2	13608.8
66°	4263.4	4347.7	5136.7	7032.1	10001.2	13261.7	15787.9	15335.5	16776.4	17175.2	13497.6
67.5°	3658.4	3724.6	4431.1	6216.3	9440.4	13369.1	16371.8	15669.0	16809.9	16950.9	12862.0
70°	2311.5	2330.6	2879.9	4291.2	7146.2	11594.5	15483.1	14840.8	15423.6	15042.1	10782.5
72.5°	1002.8	996.0	1382.4	2183.0	4045.8	7779.8	12524.5	12245.5	12098.8	11228.3	7547.8
75°	557.9	565.6	718.1	1013.3	1644.2	3821.4	8193.1	7840.3	6619.8	5648.7	3422.6
77.5°	447.7	458.3	595.4	719.0	738.2	1332.6	3833.8	3119.6	1878.1	1507.1	951.0
80°	353.7	373.0	519.7	559.9	497.6	549.3	1238.7	990.3	743.0	681.6	492.8
82.5°	280.0	293.4	445.8	423.7	348.0	370.1	593.4	578.1	483.1	440.1	284.7
85°	201.3	226.3	366.2	319.3	228.2	249.3	394.0	377.8	277.0	226.3	125.6
87.5°	82.4	107.4	258.8	211.9	127.5	116.0	196.5	185.1	131.3	95.9	62.3
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°	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5	2891.5
2.5°	2888.6	2911.6	2941.3	2959.5	2969.1	2975.9	2986.4	2985.4	2988.2	2989.3	2993.1
5°	2907.7	2946.1	2989.3	3000.7	3000.7	2990.2	2979.7	2962.4	2955.7	2953.8	2955.7
7.5°	2957.6	2999.8	3037.1	3023.7	2995.0	2952.8	2898.1	2850.2	2824.4	2815.7	2813.8
10°	3020.9	3071.7	3087.1	3036.2	2951.8	2850.2	2741.9	2663.3	2618.2	2605.8	2601.9
12.5°	3097.6	3145.5	3124.4	3017.1	2860.8	2696.8	2547.2	2421.7	2327.7	2298.1	2296.1
15°	3182.0	3219.3	3145.5	2957.6	2724.6	2483.0	2216.5	1999.9	1882.9	1845.5	1842.6
17.5°	3260.6	3279.7	3133.1	2854.0	2524.2	2133.2	1779.3	1612.6	1572.3	1581.9	1583.7
20°	3327.7	3327.7	3090.8	2705.5	2208.9	1672.0	1448.6	1445.7	1474.5	1503.2	1509.0
22.5°	3401.5	3357.4	3017.1	2495.5	1762.1	1368.1	1335.5	1362.4	1394.9	1426.5	1431.3
25°	3492.6	3381.4	2914.5	2177.2	1385.3	1242.5	1255.0	1276.9	1293.3	1313.5	1316.3
27.5°	3594.1	3412.1	2779.3	1739.1	1202.2	1163.9	1173.4	1181.1	1179.3	1186.8	1188.8
30°	3716.0	3447.5	2594.3	1359.4	1126.5	1096.8	1079.5	1072.8	1072.8	1085.2	1090.1
32.5°	3878.9	3500.2	2328.6	1164.8	1090.1	1048.8	993.2	968.3	977.8	1020.1	1029.6
35°	4058.1	3556.8	1969.2	1098.6	1082.4	1026.7	940.5	894.5	895.4	934.8	947.2
37.5°	4253.7	3628.7	1575.1	1086.2	1099.7	1027.8	912.7	849.5	823.6	823.6	828.3
40°	4504.0	3702.5	1275.1	1094.9	1136.1	1039.2	898.4	814.0	741.1	743.0	746.9
42.5°	4830.0	3765.8	1114.0	1113.1	1180.2	1054.6	897.3	767.0	703.7	746.9	786.1
45°	5192.4	3797.4	1043.1	1129.3	1215.7	1064.2	882.0	759.3	708.5	837.0	911.8
47.5°	5609.4	3779.2	1003.7	1135.1	1224.3	1064.2	864.8	777.5	742.0	969.2	1056.5
50°	6066.7	3726.5	965.5	1123.6	1221.4	1062.2	881.1	795.8	754.5	992.3	1052.6
52.5°	6604.5	3682.4	925.2	1098.6	1201.3	1051.7	900.2	788.1	715.1	902.1	944.3
55°	7218.0	3694.9	880.0	1063.2	1169.6	1031.5	893.5	757.4	673.9	794.7	820.6
57.5°	8002.3	3843.4	826.4	1018.1	1126.5	998.0	869.5	743.0	661.5	721.0	736.3
60°	8877.6	4102.3	759.3	973.1	1072.8	944.3	851.3	749.7	667.3	715.1	722.8
62.5°	9520.0	4252.8	701.7	906.9	999.9	884.9	828.3	758.3	682.6	735.3	733.5
65°	9694.4	4005.5	629.8	810.1	901.2	822.6	799.5	767.9	689.3	751.7	743.0
66°	9449.9	3739.0	598.2	765.1	851.3	791.9	785.2	767.0	686.4	753.5	739.2
67.5°	8856.5	3192.5	543.6	698.9	771.7	745.8	762.2	758.3	678.7	751.7	731.5
70°	7222.9	2178.2	464.9	582.0	642.3	656.7	718.1	727.6	653.9	718.1	673.9
72.5°	5046.6	1326.9	411.3	451.5	519.7	559.9	657.7	685.5	620.3	627.0	584.8
75°	2438.9	704.6	373.0	350.0	403.7	467.9	584.8	628.0	567.5	524.4	509.1
77.5°	760.3	430.5	316.4	281.8	316.4	377.8	489.0	550.3	505.2	439.1	433.3
80°	408.4	316.4	243.5	226.3	250.2	296.2	384.4	459.2	434.2	394.0	351.9
82.5°	269.4	205.2	180.2	175.4	190.8	226.3	285.7	380.6	380.6	337.5	245.4
85°	139.0	125.6	123.7	123.7	133.3	150.5	194.7	293.4	312.5	178.3	147.6
87.5°	69.0	71.9	67.1	70.0	74.8	73.9	93.0	147.6	176.4	108.3	90.1
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)