

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: P194032

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194032
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 20033 lumens
Efficiency: N/A
Efficacy: 89.0 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

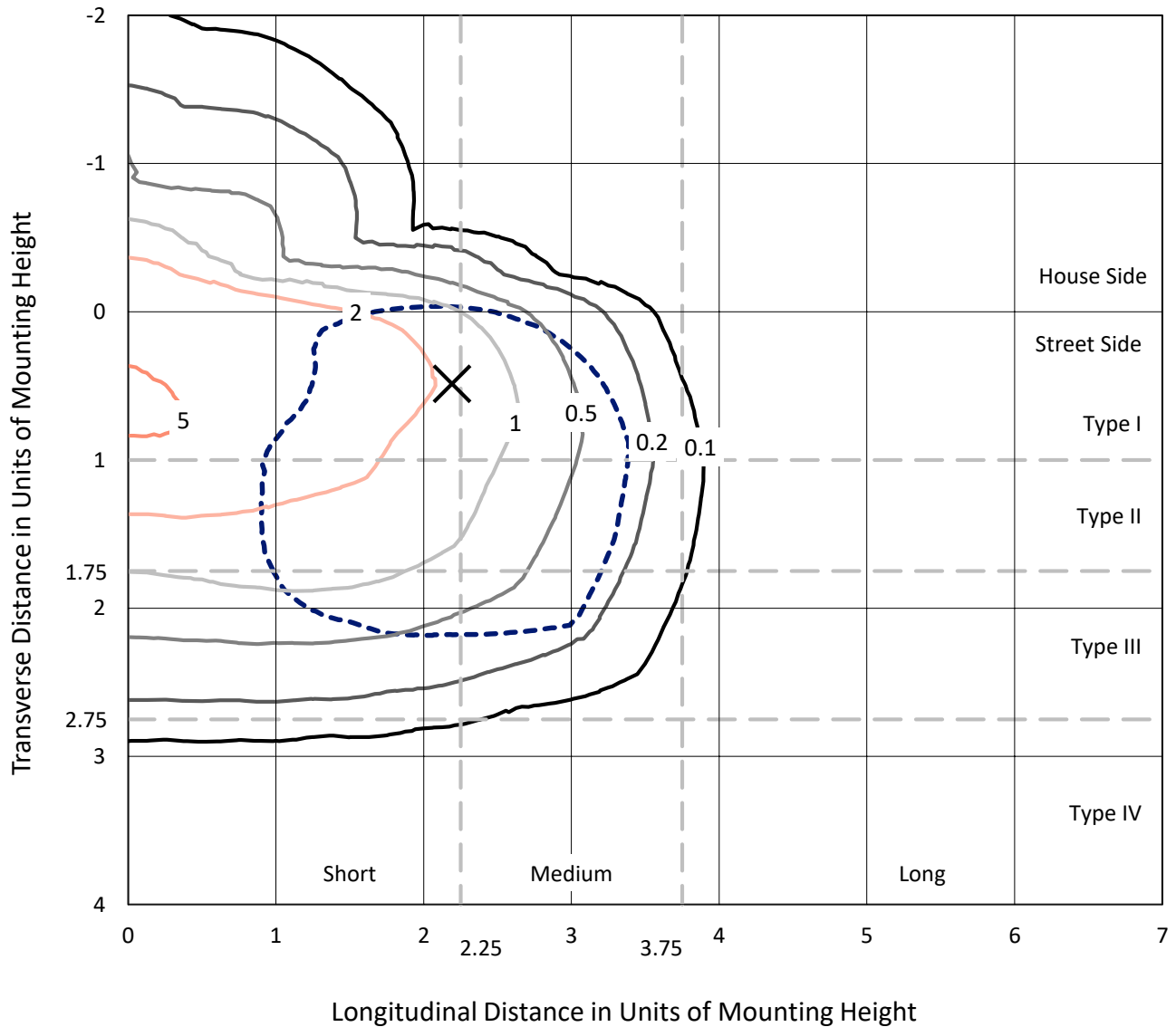
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

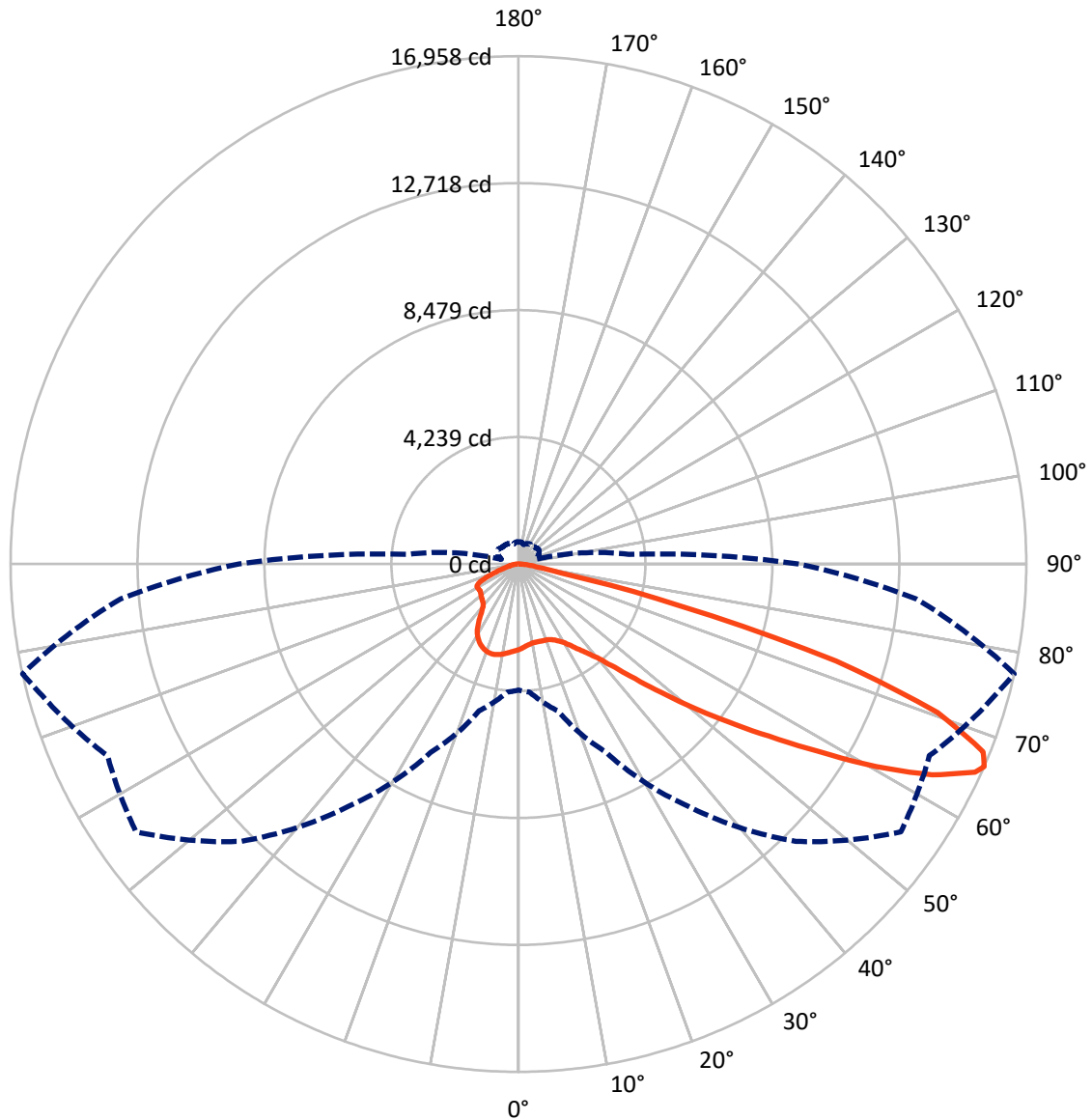
× Max cd
 - - - 1/2 Max cd



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	3422.5	0.0	3422.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16610.5	0.0	16610.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	20033.0	0.0	20033.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.3
10°-20°	719.5	3.6
20°-30°	1228.0	6.1
30°-40°	1965.8	9.8
40°-50°	3037.0	15.2
50°-60°	4307.6	21.5
60°-70°	5762.3	28.8
70°-80°	2502.5	12.5
80°-90°	255.2	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°	20033.0	100.0
0°-180°	20033.0	100.0



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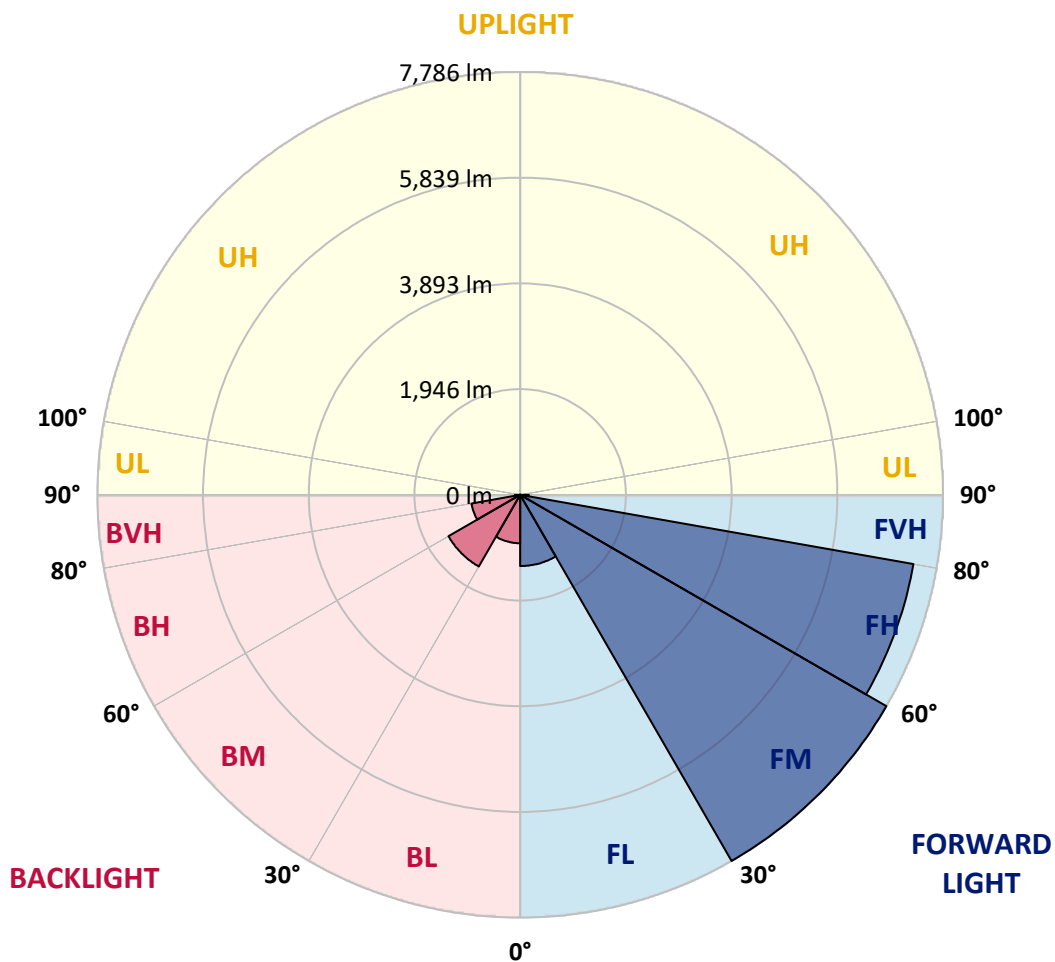
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1311.3	6.5			
FM	(30°-60°)	7785.9	38.9			
FH	(60°-80°)	7353.3	36.7			G3/7500
FVH	(80°-90°)	160.0	0.8			G2/225
BL	(0°-30°)	891.4	4.4	B2/1000		
BM	(30°-60°)	1524.5	7.6	B2/2500		
BH	(60°-80°)	911.5	4.5	B2/1000		G2/1000
BVH	(80°-90°)	95.1	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°	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8
2.5°	2525.4	2542.4	2556.6	2569.9	2596.4	2639.9	2690.1	2730.8	2789.5	2800.8	2832.1
5°	2293.5	2293.5	2304.9	2324.7	2360.7	2426.0	2494.2	2585.0	2712.8	2743.1	2826.4
7.5°	2180.9	2181.8	2188.4	2205.5	2236.7	2296.3	2371.1	2478.1	2651.3	2701.5	2843.4
10°	2222.5	2213.0	2198.8	2190.3	2195.1	2230.1	2301.1	2420.3	2613.4	2677.8	2881.3
12.5°	2455.4	2437.4	2388.1	2322.8	2260.4	2234.8	2276.5	2392.9	2597.3	2672.1	2931.5
15°	2835.9	2828.3	2736.5	2601.1	2449.7	2322.8	2294.4	2382.5	2599.2	2678.7	2991.1
17.5°	3312.9	3302.5	3181.4	2984.5	2737.4	2490.4	2357.9	2391.0	2605.9	2690.1	3048.8
20°	3794.7	3762.5	3631.9	3397.2	3080.1	2718.5	2462.9	2412.8	2614.4	2702.4	3109.4
22.5°	4154.4	4127.9	4010.5	3782.4	3417.0	2982.6	2604.0	2450.6	2641.8	2738.4	3184.2
25°	4470.6	4472.5	4356.0	4135.5	3757.8	3262.8	2785.7	2551.9	2711.9	2812.2	3286.4
27.5°	4861.5	4838.8	4729.9	4511.3	4094.8	3545.8	3005.3	2691.0	2816.0	2917.3	3420.8
30°	5329.1	5313.0	5187.1	4939.1	4468.7	3849.6	3256.1	2852.9	2950.4	3055.5	3596.9
32.5°	5879.0	5871.5	5740.8	5421.8	4900.3	4207.4	3550.5	3066.8	3151.1	3259.9	3849.6
35°	6524.6	6525.5	6371.2	5987.9	5372.6	4623.9	3884.6	3342.3	3395.3	3508.9	4150.6
37.5°	6922.1	6970.4	6912.7	6521.7	5907.4	5089.6	4318.2	3707.6	3673.6	3788.1	4473.4
40°	7007.3	7066.0	7248.7	7049.9	6505.6	5602.6	4702.5	4058.8	4016.2	4156.3	4888.9
42.5°	6888.1	6969.5	7355.6	7495.7	7140.8	6234.9	5219.3	4580.4	4526.4	4714.8	5405.8
45°	6817.1	6877.6	7324.4	7727.6	7691.7	6949.6	5877.1	5235.4	5215.5	5462.5	6002.1
47.5°	6694.0	6748.9	7178.6	7781.6	8015.4	7604.6	6667.5	6036.2	6075.0	6398.7	6675.1
50°	6760.3	6783.0	7015.8	7644.3	8109.1	8084.5	7550.6	6963.8	7096.3	7500.5	7437.1
52.5°	6750.8	6809.5	6996.9	7419.1	8121.4	8380.8	8420.5	7998.4	8277.6	8741.4	8282.3
55°	5457.8	5565.7	6774.5	7362.3	8164.9	8671.4	9194.8	9088.8	9609.4	10149.9	9236.4
57.5°	5211.7	5279.9	5950.0	7481.5	8395.9	9226.0	10056.2	10289.0	11159.8	11787.4	10398.8
60°	5163.4	5247.7	5941.5	7627.3	8864.4	10130.0	11333.1	11742.0	13046.3	13733.5	11746.7
62.5°	5012.9	5103.8	5885.7	7608.4	9529.9	11380.4	12967.7	13286.7	14835.3	15503.6	12874.0
65°	4535.9	4621.1	5430.4	7302.6	9978.5	12715.0	14902.5	14702.8	16247.5	16750.2	13436.3
66°	4209.3	4292.6	5071.6	6943.0	9874.4	13093.6	15587.8	15141.0	16563.7	16957.5	13326.5
67.5°	3612.0	3677.4	4375.0	6137.4	9320.7	13199.7	16164.3	15470.4	16596.8	16736.0	12698.9
70°	2282.1	2301.1	2843.4	4236.8	7055.6	11447.6	15286.8	14652.6	15228.1	14851.4	10645.9
72.5°	990.1	983.5	1364.9	2155.3	3994.4	7681.3	12365.7	12090.3	11945.5	11086.0	7452.2
75°	550.9	558.5	709.0	1000.5	1623.3	3773.0	8089.2	7740.9	6535.9	5577.1	3379.2
77.5°	442.0	452.5	587.8	709.9	728.8	1315.7	3785.3	3080.1	1854.3	1488.0	939.0
80°	349.3	368.2	513.0	552.8	491.3	542.4	1222.9	977.8	733.6	673.0	486.5
82.5°	276.4	289.6	440.1	418.4	343.6	365.4	585.9	570.8	477.1	434.5	281.1
85°	198.8	223.4	361.6	315.2	225.3	246.1	389.0	372.9	273.6	223.4	124.0
87.5°	81.4	106.0	255.6	209.2	125.9	114.5	194.0	182.7	129.7	94.7	61.5
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°	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8	2854.8
2.5°	2852.0	2874.7	2904.0	2922.0	2931.5	2938.1	2948.5	2947.6	2950.4	2951.3	2955.1
5°	2870.9	2908.8	2951.3	2962.7	2962.7	2952.3	2941.9	2924.8	2918.2	2916.3	2918.2
7.5°	2920.1	2961.8	2998.7	2985.4	2957.0	2915.4	2861.4	2814.1	2788.5	2780.0	2778.1
10°	2982.6	3032.7	3047.9	2997.7	2914.4	2814.1	2707.1	2629.5	2585.0	2572.7	2568.9
12.5°	3058.3	3105.6	3084.8	2978.8	2824.5	2662.6	2515.0	2391.0	2298.2	2268.9	2267.0
15°	3141.6	3178.5	3105.6	2920.1	2690.1	2451.6	2188.4	1974.5	1859.0	1822.1	1819.3
17.5°	3219.2	3238.2	3093.3	2817.9	2492.3	2106.1	1756.8	1592.1	1552.3	1561.8	1563.7
20°	3285.5	3285.5	3051.7	2671.2	2180.9	1650.8	1430.2	1427.4	1455.8	1484.2	1489.9
22.5°	3358.4	3314.8	2978.8	2463.9	1739.8	1350.7	1318.5	1345.0	1377.2	1408.5	1413.2
25°	3448.3	3338.5	2877.5	2149.6	1367.8	1226.7	1239.0	1260.8	1276.9	1296.8	1299.6
27.5°	3548.6	3368.8	2744.1	1717.0	1187.0	1149.1	1158.6	1166.2	1164.3	1171.8	1173.7
30°	3668.8	3403.8	2561.4	1342.2	1112.2	1082.9	1065.8	1059.2	1059.2	1071.5	1076.2
32.5°	3829.7	3455.9	2299.2	1150.1	1076.2	1035.5	980.6	956.0	965.5	1007.1	1016.6
35°	4006.8	3511.7	1944.2	1084.7	1068.7	1013.8	928.6	883.1	884.1	922.9	935.2
37.5°	4199.8	3582.7	1555.2	1072.4	1085.7	1014.7	901.1	838.6	813.1	813.1	817.8
40°	4446.9	3655.6	1258.9	1081.0	1121.7	1026.1	886.9	803.6	731.7	733.6	737.4
42.5°	4768.7	3718.1	1099.9	1098.9	1165.2	1041.2	886.0	757.2	694.8	737.4	776.2
45°	5126.5	3749.3	1029.8	1115.0	1200.2	1050.7	870.8	749.7	699.5	826.3	900.2
47.5°	5538.3	3731.3	991.0	1120.7	1208.7	1050.7	853.8	767.7	732.6	957.0	1043.1
50°	5989.8	3679.2	953.2	1109.4	1205.9	1048.8	869.9	785.6	744.9	979.7	1039.3
52.5°	6520.8	3635.7	913.4	1084.7	1186.0	1038.4	888.8	778.1	706.1	890.7	932.4
55°	7126.6	3648.0	868.9	1049.7	1154.8	1018.5	882.2	747.8	665.4	784.7	810.2
57.5°	7900.9	3794.7	815.9	1005.2	1112.2	985.4	858.5	733.6	653.1	711.8	727.0
60°	8765.1	4050.3	749.7	960.7	1059.2	932.4	840.5	740.2	658.8	706.1	713.7
62.5°	9399.3	4198.9	692.9	895.4	987.3	873.7	817.8	748.7	673.9	726.0	724.1
65°	9571.5	3954.7	621.9	799.8	889.8	812.1	789.4	758.2	680.6	742.1	733.6
66°	9330.2	3691.5	590.6	755.3	840.5	781.9	775.2	757.2	677.7	744.0	729.8
67.5°	8744.2	3152.0	536.7	690.0	762.0	736.4	752.5	748.7	670.2	742.1	722.2
70°	7131.3	2150.6	459.1	574.6	634.2	648.4	709.0	718.4	645.5	709.0	665.4
72.5°	4982.6	1310.0	406.1	445.8	513.0	552.8	649.3	676.8	612.4	619.0	577.4
75°	2408.0	695.7	368.2	345.5	398.5	461.9	577.4	620.0	560.4	517.8	502.6
77.5°	750.6	425.0	312.4	278.3	312.4	372.9	482.7	543.3	498.8	433.5	427.8
80°	403.2	312.4	240.4	223.4	247.0	292.5	379.6	453.4	428.8	389.0	347.4
82.5°	266.0	202.6	178.0	173.2	188.4	223.4	282.1	375.8	375.8	333.2	242.3
85°	137.2	124.0	122.1	122.1	131.6	148.6	192.1	289.6	308.6	176.1	145.8
87.5°	68.2	71.0	66.3	69.1	73.8	72.9	91.8	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)