

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: P192291

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192291
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-03-LED-E1-T3R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 18580 lumens
Efficiency: N/A
Efficacy: 111.9 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

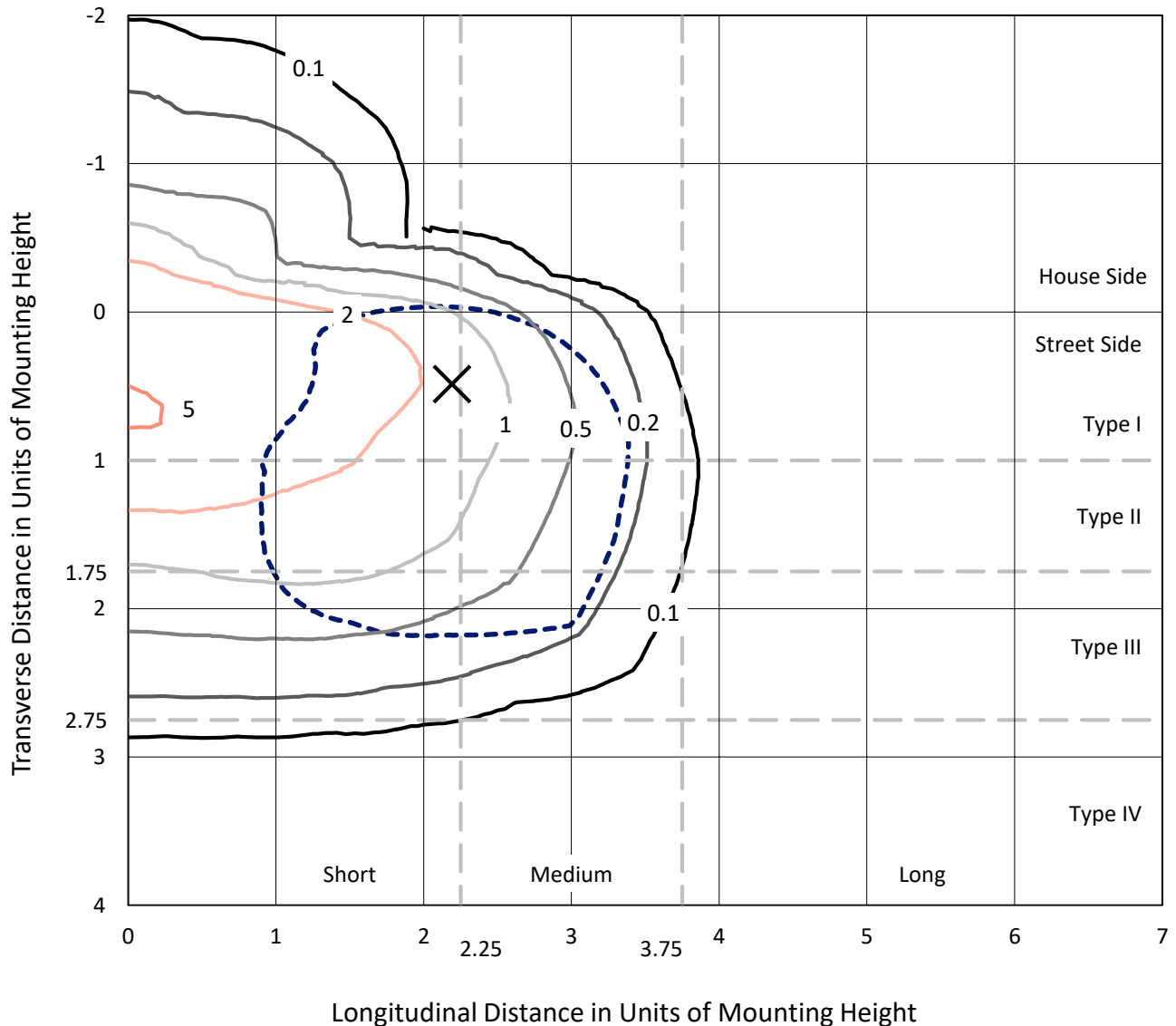
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P192291
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7050

Iso-Footcandle Lines of Horizontal Illumination

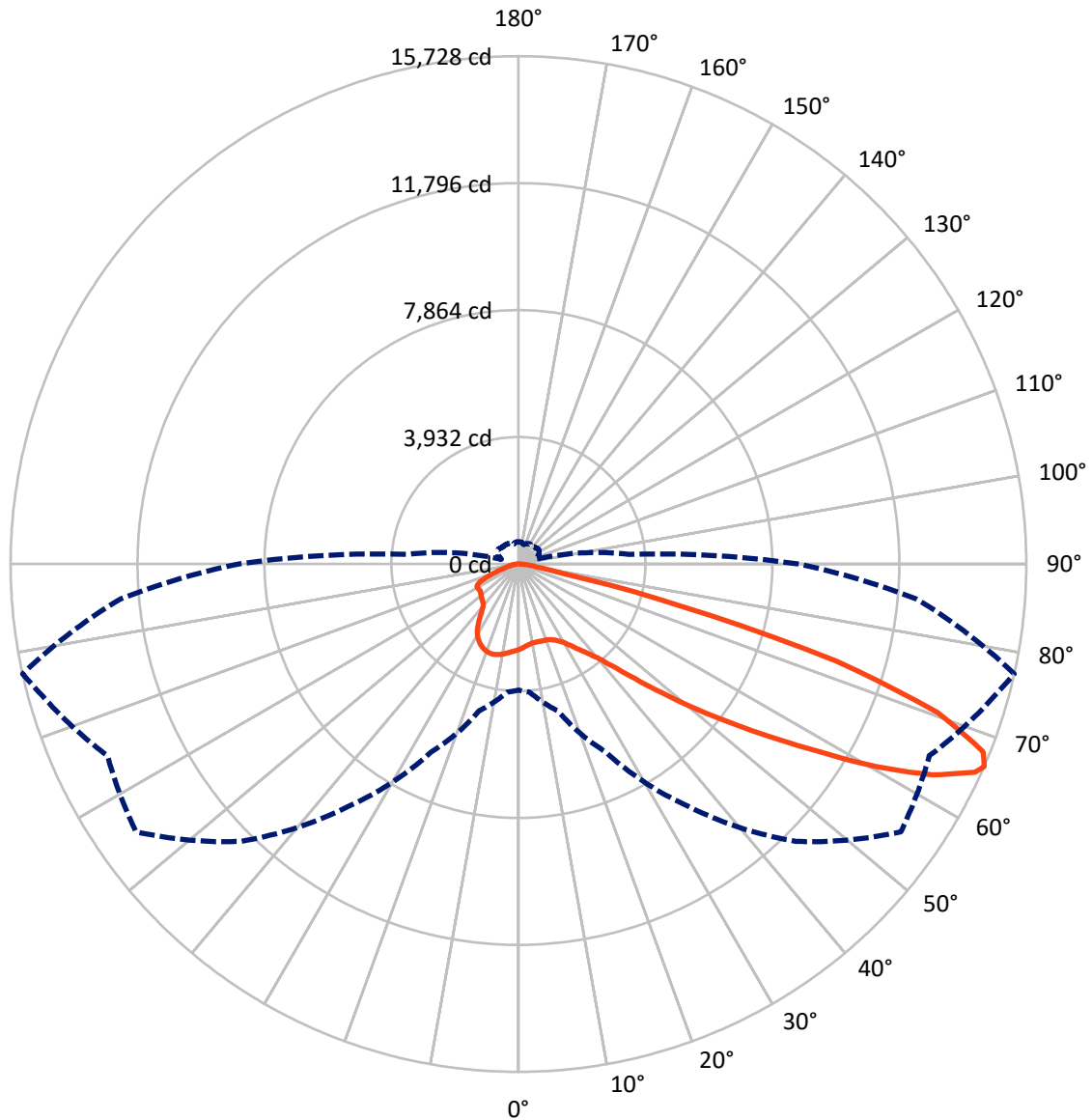
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P192291
CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P192291

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3174.3	0.0	3174.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	15405.7	0.0	15405.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	18580.0	0.0	18580.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	1.3
10°-20°	667.4	3.6
20°-30°	1139.0	6.1
30°-40°	1823.2	9.8
40°-50°	2816.8	15.2
50°-60°	3995.1	21.5
60°-70°	5344.4	28.8
70°-80°	2321.0	12.5
80°-90°	236.7	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°	18580.0	100.0
0°-180°	18580.0	100.0



REPORT NUMBER: P192291

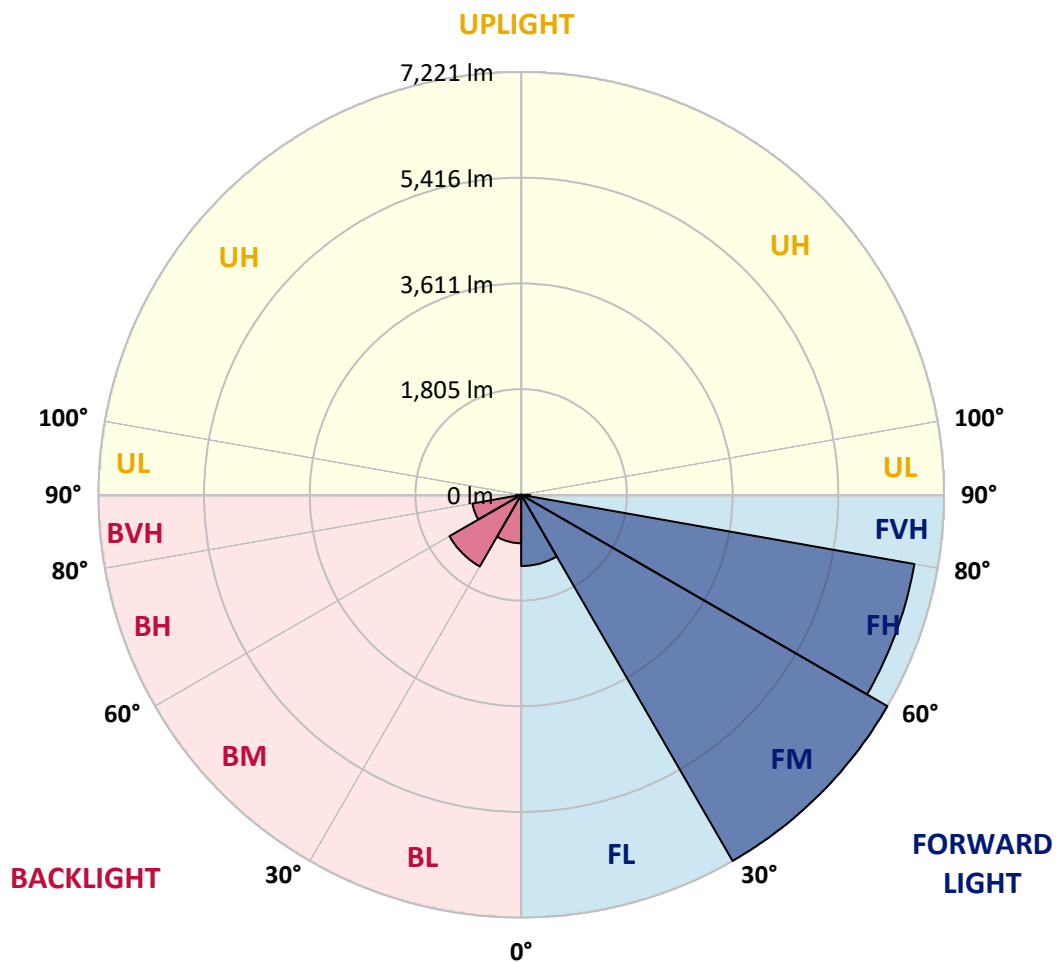
CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1216.1	6.5			
FM	(30°-60°)	7221.2	38.9			
FH	(60°-80°)	6820.0	36.7			G3/7500
FVH	(80°-90°)	148.4	0.8			G2/225
BL	(0°-30°)	826.7	4.4	B2/1000		
BM	(30°-60°)	1414.0	7.6	B2/2500		
BH	(60°-80°)	845.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	88.2	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





REPORT NUMBER: P192291
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7
2.5°	2342.2	2358.0	2371.2	2383.5	2408.1	2448.5	2495.0	2532.7	2587.2	2597.7	2626.7
5°	2127.1	2127.1	2137.7	2156.1	2189.5	2250.1	2313.3	2397.5	2516.1	2544.1	2621.4
7.5°	2022.7	2023.6	2029.7	2045.5	2074.5	2129.8	2199.1	2298.3	2459.0	2505.5	2637.2
10°	2061.3	2052.5	2039.4	2031.5	2035.8	2068.3	2134.2	2244.8	2423.9	2483.6	2672.3
12.5°	2277.3	2260.6	2214.9	2154.4	2096.4	2072.7	2111.3	2219.3	2409.0	2478.3	2718.8
15°	2630.2	2623.2	2538.0	2412.5	2272.0	2154.4	2128.0	2209.7	2410.7	2484.4	2774.2
17.5°	3072.6	3063.0	2950.6	2768.0	2538.9	2309.7	2186.8	2217.6	2416.9	2495.0	2827.7
20°	3519.5	3489.6	3368.5	3150.8	2856.7	2521.3	2284.3	2237.8	2424.8	2506.4	2883.9
22.5°	3853.1	3828.5	3719.7	3508.1	3169.2	2766.3	2415.1	2272.9	2450.2	2539.8	2953.2
25°	4146.3	4148.1	4040.1	3835.5	3485.3	3026.1	2583.7	2366.8	2515.2	2608.2	3048.1
27.5°	4508.9	4487.8	4386.9	4184.1	3797.8	3288.6	2787.3	2495.9	2611.7	2705.7	3172.7
30°	4942.6	4927.6	4810.9	4580.9	4144.6	3570.4	3020.0	2646.0	2736.4	2833.9	3336.0
32.5°	5452.6	5445.6	5324.4	5028.6	4544.9	3902.3	3293.0	2844.4	2922.5	3023.5	3570.4
35°	6051.3	6052.2	5909.1	5553.6	4982.9	4288.5	3602.9	3099.9	3149.0	3254.4	3849.6
37.5°	6420.1	6464.8	6411.3	6048.7	5479.0	4720.5	4005.0	3438.7	3407.1	3513.3	4148.9
40°	6499.1	6553.5	6722.9	6538.6	6033.8	5196.3	4361.4	3764.4	3724.9	3854.8	4534.3
42.5°	6388.5	6464.0	6822.1	6952.1	6622.9	5782.7	4840.7	4248.1	4198.1	4372.8	5013.7
45°	6322.6	6378.8	6793.2	7167.2	7133.8	6445.5	5450.9	4855.7	4837.2	5066.3	5566.7
47.5°	6208.5	6259.4	6658.0	7217.2	7434.0	7053.0	6183.9	5598.4	5634.3	5934.6	6190.9
50°	6269.9	6291.0	6507.0	7089.9	7520.9	7498.1	7003.0	6458.7	6581.6	6956.5	6897.6
52.5°	6261.2	6315.6	6489.4	6881.0	7532.4	7772.9	7809.8	7418.2	7677.2	8107.4	7681.6
55°	5062.0	5162.0	6283.1	6828.3	7572.7	8042.4	8527.9	8429.6	8912.4	9413.7	8566.5
57.5°	4833.7	4896.9	5518.5	6938.9	7786.9	8556.9	9326.8	9542.7	10350.4	10932.5	9644.6
60°	4788.9	4867.1	5510.6	7074.1	8221.5	9395.3	10511.1	10890.3	12100.1	12737.4	10894.7
62.5°	4649.3	4733.6	5458.8	7056.5	8838.7	10555.0	12027.2	12323.0	13759.3	14379.1	11940.3
65°	4206.9	4285.9	5036.5	6773.0	9254.8	11792.8	13821.6	13636.4	15069.1	15535.3	12461.8
66°	3904.0	3981.3	4703.8	6439.4	9158.2	12144.0	14457.2	14042.8	15362.3	15727.5	12359.9
67.5°	3350.1	3410.6	4057.6	5692.3	8644.7	12242.3	14991.9	14348.4	15393.1	15522.1	11777.9
70°	2116.6	2134.2	2637.2	3929.5	6543.8	10617.3	14178.0	13589.9	14123.6	13774.2	9873.7
72.5°	918.3	912.1	1265.9	1999.0	3704.7	7124.1	11468.9	11213.4	11079.1	10281.9	6911.7
75°	510.9	518.0	657.5	927.9	1505.6	3499.3	7502.5	7179.4	6061.9	5172.6	3134.1
77.5°	410.0	419.6	545.2	658.4	676.0	1220.3	3510.7	2856.7	1719.8	1380.1	870.9
80°	323.9	341.5	475.8	512.7	455.6	503.0	1134.2	906.9	680.4	624.2	451.2
82.5°	256.3	268.6	408.2	388.0	318.7	338.9	543.4	529.4	442.5	403.0	260.7
85°	184.4	207.2	335.4	292.3	208.9	228.3	360.8	345.9	253.7	207.2	115.0
87.5°	75.5	98.3	237.0	194.0	116.8	106.2	180.0	169.4	120.3	87.8	57.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192291
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T3R-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7	2647.7
2.5°	2645.1	2666.2	2693.4	2710.1	2718.8	2725.0	2734.7	2733.8	2736.4	2737.3	2740.8
5°	2662.7	2697.8	2737.3	2747.8	2747.8	2738.2	2728.5	2712.7	2706.6	2704.8	2706.6
7.5°	2708.3	2746.9	2781.2	2768.9	2742.6	2703.9	2653.9	2610.0	2586.3	2578.4	2576.6
10°	2766.3	2812.8	2826.8	2780.3	2703.0	2610.0	2510.8	2438.8	2397.5	2386.1	2382.6
12.5°	2836.5	2880.4	2861.1	2762.7	2619.6	2469.5	2332.6	2217.6	2131.5	2104.3	2102.6
15°	2913.7	2948.0	2880.4	2708.3	2495.0	2273.8	2029.7	1831.3	1724.2	1690.0	1687.3
17.5°	2985.7	3003.3	2869.0	2613.5	2311.5	1953.3	1629.4	1476.6	1439.8	1448.5	1450.3
20°	3047.2	3047.2	2830.3	2477.4	2022.7	1531.1	1326.5	1323.9	1350.2	1376.5	1381.8
22.5°	3114.8	3074.4	2762.7	2285.2	1613.6	1252.8	1222.9	1247.5	1277.3	1306.3	1310.7
25°	3198.2	3096.3	2668.8	1993.7	1268.6	1137.8	1149.2	1169.4	1184.3	1202.7	1205.4
27.5°	3291.2	3124.4	2545.0	1592.5	1100.9	1065.8	1074.5	1081.6	1079.8	1086.8	1088.6
30°	3402.7	3156.9	2375.6	1244.9	1031.5	1004.3	988.5	982.4	982.4	993.8	998.2
32.5°	3552.0	3205.2	2132.4	1066.6	998.2	960.4	909.5	886.7	895.5	934.1	942.9
35°	3716.1	3257.0	1803.2	1006.1	991.1	940.2	861.2	819.1	820.0	855.9	867.4
37.5°	3895.2	3322.8	1442.4	994.7	1006.9	941.1	835.8	777.8	754.1	754.1	758.5
40°	4124.4	3390.4	1167.6	1002.6	1040.3	951.6	822.6	745.3	678.6	680.4	683.9
42.5°	4422.8	3448.4	1020.1	1019.2	1080.7	965.7	821.7	702.3	644.4	683.9	719.9
45°	4754.7	3477.4	955.2	1034.2	1113.2	974.5	807.7	695.3	648.8	766.4	834.9
47.5°	5136.6	3460.7	919.2	1039.4	1121.1	974.5	791.9	712.0	679.5	887.6	967.4
50°	5555.3	3412.4	884.0	1028.9	1118.4	972.7	806.8	728.7	690.9	908.6	963.9
52.5°	6047.8	3372.0	847.2	1006.1	1100.0	963.1	824.3	721.6	654.9	826.1	864.7
55°	6609.7	3383.4	805.9	973.6	1071.0	944.6	818.2	693.5	617.2	727.8	751.5
57.5°	7327.8	3519.5	756.7	932.3	1031.5	913.9	796.3	680.4	605.7	660.2	674.2
60°	8129.3	3756.5	695.3	891.1	982.4	864.7	779.6	686.5	611.0	654.9	661.9
62.5°	8717.5	3894.4	642.6	830.5	915.6	810.3	758.5	694.4	625.1	673.3	671.6
65°	8877.3	3667.9	576.8	741.8	825.2	753.2	732.2	703.2	631.2	688.3	680.4
66°	8653.4	3423.8	547.8	700.6	779.6	725.1	719.0	702.3	628.6	690.0	676.9
67.5°	8110.0	2923.4	497.8	640.0	706.7	683.0	697.9	694.4	621.6	688.3	669.8
70°	6614.1	1994.6	425.8	532.9	588.2	601.4	657.5	666.3	598.7	657.5	617.2
72.5°	4621.3	1215.0	376.6	413.5	475.8	512.7	602.2	627.7	568.0	574.1	535.5
75°	2233.4	645.3	341.5	320.4	369.6	428.4	535.5	575.0	519.7	480.2	466.2
77.5°	696.2	394.2	289.7	258.1	289.7	345.9	447.7	503.9	462.7	402.1	396.8
80°	374.0	289.7	223.0	207.2	229.1	271.3	352.0	420.5	397.7	360.8	322.2
82.5°	246.7	187.9	165.0	160.7	174.7	207.2	261.6	348.5	348.5	309.0	224.7
85°	127.3	115.0	113.2	113.2	122.0	137.8	178.2	268.6	286.2	163.3	135.2
87.5°	63.2	65.8	61.5	64.1	68.5	67.6	85.2	135.2	161.5	99.2	82.5
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)