

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: P192301

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192301
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20382 lumens
Efficiency: N/A
Efficacy: 106.7 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): 191
Input Voltage (V): NR
Input Current (A_{in}): 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

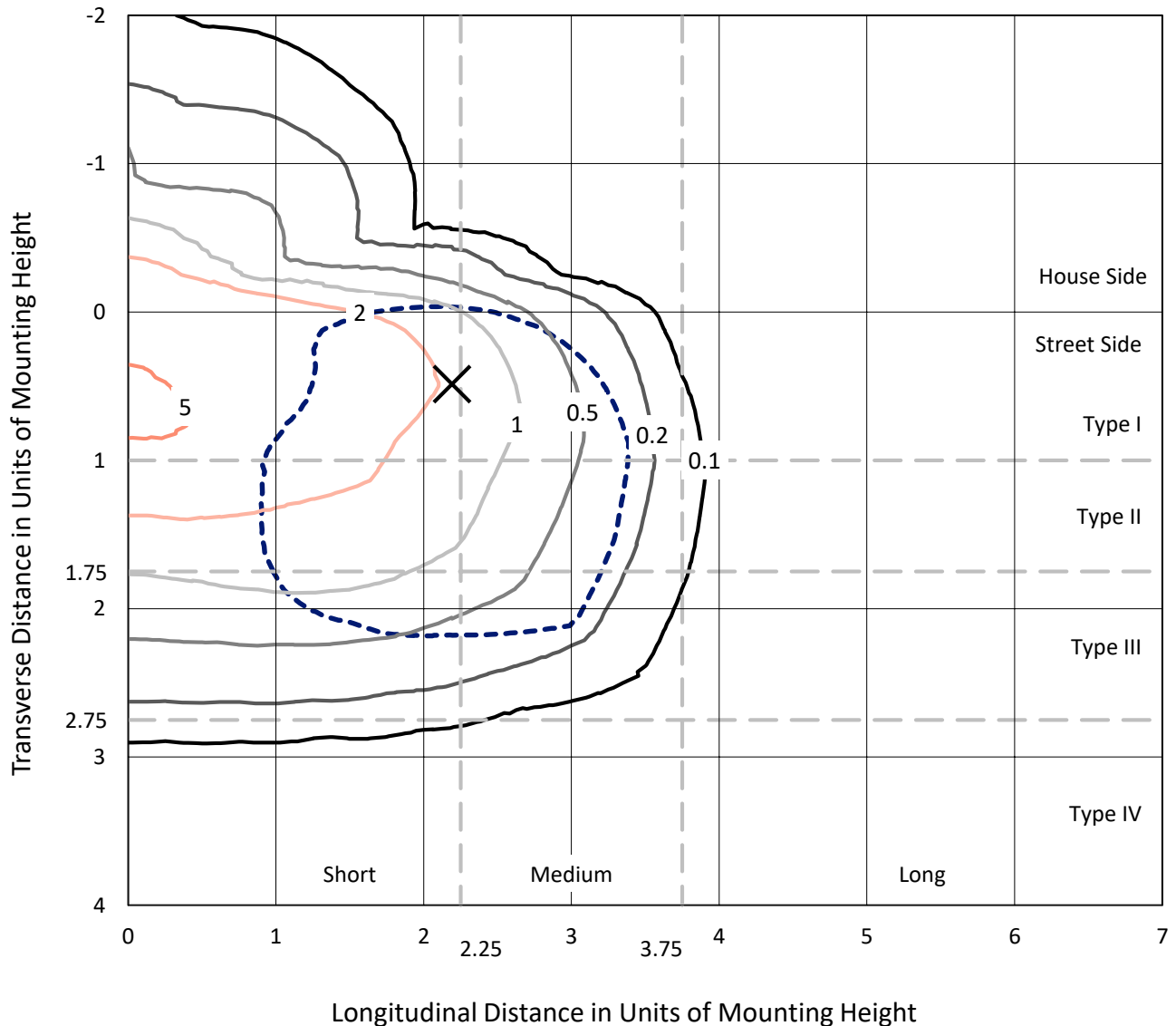


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

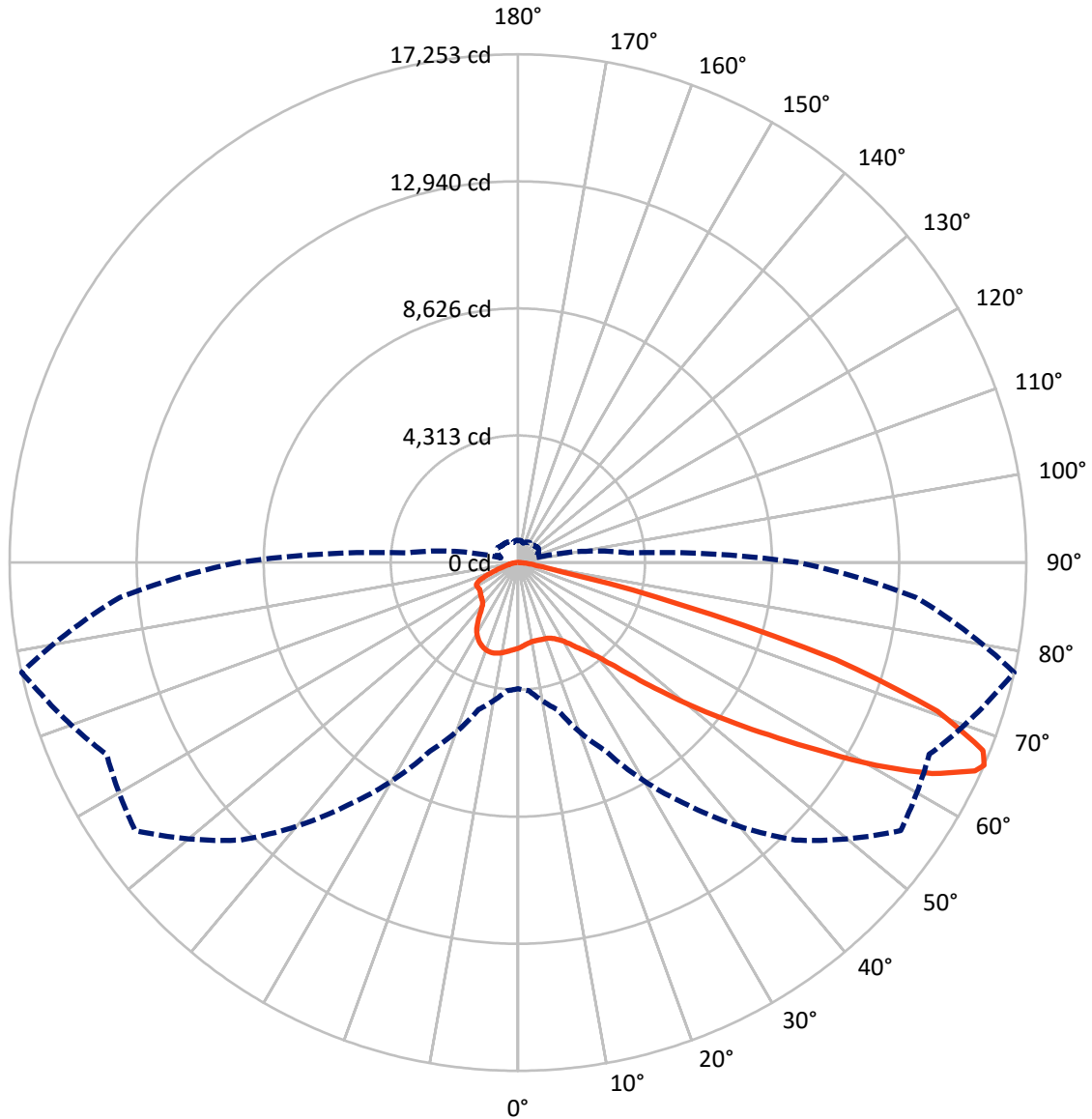


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - Full Cutoff

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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	3482.1	0.0	3482.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16899.9	0.0	16899.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	20382.0	0.0	20382.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	1.3
10°-20°	732.1	3.6
20°-30°	1249.4	6.1
30°-40°	2000.1	9.8
40°-50°	3089.9	15.2
50°-60°	4382.6	21.5
60°-70°	5862.7	28.8
70°-80°	2546.1	12.5
80°-90°	259.6	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°	20382.0	100.0
0°-180°	20382.0	100.0



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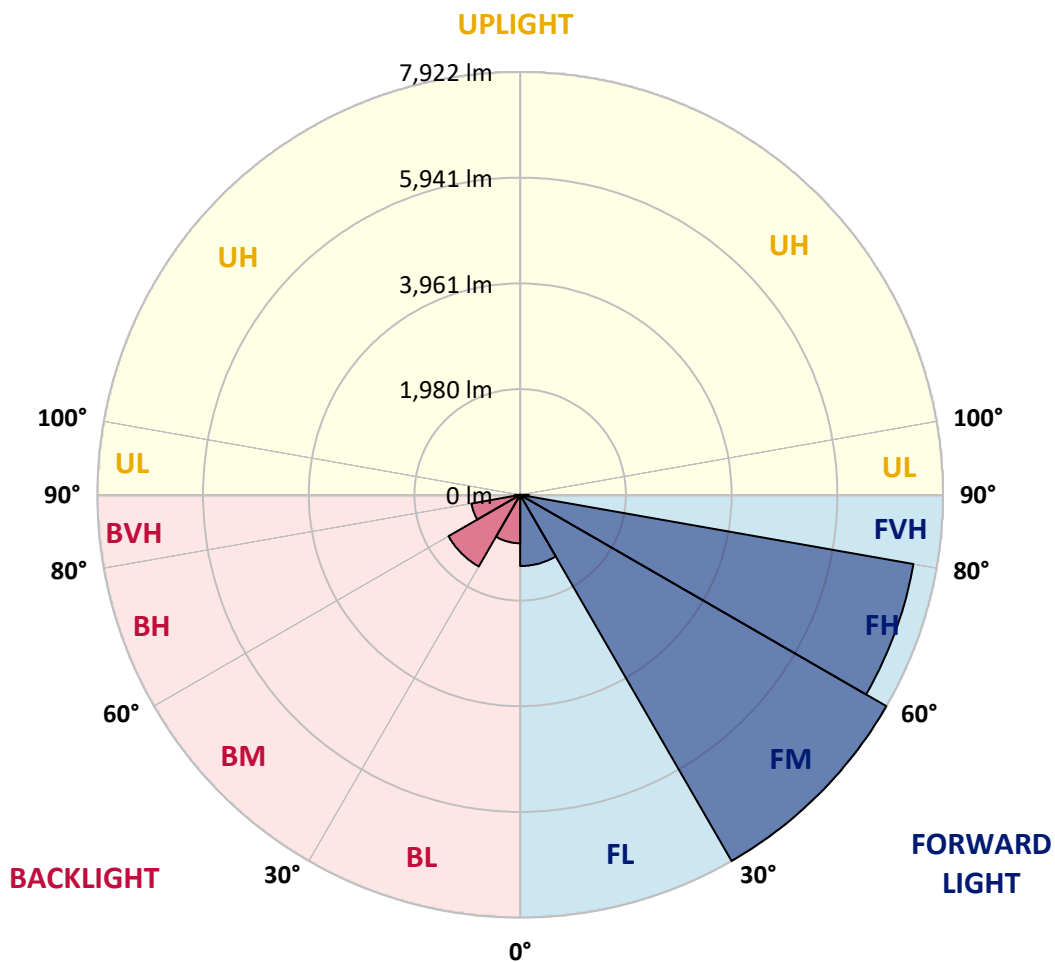
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1334.1	6.5			
FM (30°-60°)	7921.5	38.9			
FH (60°-80°)	7481.4	36.7			G3/7500
FVH (80°-90°)	162.8	0.8			G2/225
BL (0°-30°)	906.9	4.4	B2/1000		
BM (30°-60°)	1551.1	7.6	B2/2500		
BH (60°-80°)	927.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	96.8	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°	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	2569.4	2586.7	2601.2	2614.7	2641.6	2685.9	2737.0	2778.4	2838.1	2849.6	2881.4
5°	2333.4	2333.4	2345.0	2365.2	2401.8	2468.3	2537.6	2630.1	2760.1	2790.9	2875.6
7.5°	2218.8	2219.8	2226.6	2243.9	2275.7	2336.3	2412.4	2521.2	2697.5	2748.5	2893.0
10°	2261.2	2251.6	2237.1	2228.5	2233.3	2268.9	2341.2	2462.5	2659.0	2724.4	2931.5
12.5°	2498.1	2479.8	2429.8	2363.3	2299.7	2273.7	2316.1	2434.6	2642.6	2718.7	2982.5
15°	2885.3	2877.6	2784.2	2646.4	2492.4	2363.3	2334.4	2424.0	2644.5	2725.4	3043.2
17.5°	3370.6	3360.1	3236.8	3036.5	2785.1	2533.8	2398.9	2432.6	2651.3	2737.0	3102.0
20°	3860.8	3828.1	3695.2	3456.4	3133.7	2765.9	2505.8	2454.8	2659.9	2749.5	3163.6
22.5°	4226.8	4199.8	4080.4	3848.3	3476.6	3034.5	2649.3	2493.3	2687.8	2786.1	3239.7
25°	4548.4	4550.4	4431.9	4207.5	3823.3	3319.6	2834.2	2596.4	2759.1	2861.2	3343.7
27.5°	4946.2	4923.1	4812.3	4589.9	4166.1	3607.6	3057.7	2737.9	2865.0	2968.1	3480.4
30°	5421.9	5405.5	5277.5	5025.1	4546.5	3916.7	3312.9	2902.6	3001.8	3108.7	3659.6
32.5°	5981.4	5973.7	5840.8	5516.3	4985.7	4280.7	3612.4	3120.3	3206.0	3316.7	3916.7
35°	6638.2	6639.2	6482.2	6092.2	5466.2	4704.5	3952.3	3400.5	3454.4	3570.0	4222.9
37.5°	7042.7	7091.8	7033.1	6635.4	6010.3	5178.3	4393.4	3772.2	3737.6	3854.1	4551.3
40°	7129.4	7189.1	7375.0	7172.7	6619.0	5700.2	4784.4	4129.5	4086.2	4228.7	4974.1
42.5°	7008.0	7090.9	7483.8	7626.3	7265.2	6343.6	5310.2	4660.2	4605.3	4796.9	5499.9
45°	6935.8	6997.5	7452.0	7862.3	7825.7	7070.6	5979.5	5326.6	5306.4	5557.7	6106.6
47.5°	6810.6	6866.5	7303.7	7917.2	8155.0	7737.1	6783.7	6141.3	6180.8	6510.2	6791.4
50°	6878.0	6901.2	7138.1	7777.5	8250.4	8225.3	7682.2	7085.1	7219.9	7631.1	7566.6
52.5°	6868.4	6928.1	7118.8	7548.3	8262.9	8526.8	8567.2	8137.7	8421.8	8893.7	8426.6
55°	5552.9	5662.7	6892.5	7490.5	8307.2	8822.4	9355.0	9247.1	9776.8	10326.7	9397.4
57.5°	5302.5	5371.8	6053.7	7611.9	8542.2	9386.8	10231.3	10468.3	11354.3	11992.8	10580.0
60°	5253.4	5339.1	6045.0	7760.2	9018.9	10306.5	11530.5	11946.5	13273.6	13972.8	11951.3
62.5°	5100.3	5192.7	5988.2	7740.9	9695.9	11578.6	13193.7	13518.2	15093.7	15773.6	13098.3
65°	4614.9	4701.6	5525.0	7429.9	10152.4	12936.5	15162.1	14958.9	16530.6	17042.0	13670.4
66°	4282.6	4367.4	5160.0	7063.9	10046.4	13321.7	15859.4	15404.8	16852.3	17252.9	13558.7
67.5°	3675.0	3741.4	4451.2	6244.4	9483.1	13429.6	16445.9	15739.9	16886.0	17027.5	12920.2
70°	2321.9	2341.2	2893.0	4310.6	7178.5	11647.0	15553.1	14907.9	15493.4	15110.1	10831.3
72.5°	1007.3	1000.6	1388.7	2192.8	4064.0	7815.1	12581.2	12300.9	12153.6	11279.1	7582.0
75°	560.5	568.2	721.3	1017.9	1651.6	3838.7	8230.1	7875.7	6649.8	5674.2	3438.1
77.5°	449.7	460.3	598.0	722.3	741.5	1338.6	3851.2	3133.7	1886.6	1513.9	955.3
80°	355.4	374.6	522.0	562.4	499.8	551.8	1244.2	994.8	746.4	684.7	495.0
82.5°	281.2	294.7	447.8	425.7	349.6	371.7	596.1	580.7	485.4	442.0	286.0
85°	202.2	227.3	367.9	320.7	229.2	250.4	395.8	379.4	278.3	227.3	126.2
87.5°	82.8	107.9	260.0	212.8	128.1	116.5	197.4	185.9	131.9	96.3	62.6
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°	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5	2904.5
2.5°	2901.6	2924.8	2954.6	2972.9	2982.5	2989.3	2999.9	2998.9	3001.8	3002.8	3006.6
5°	2920.9	2959.4	3002.8	3014.3	3014.3	3003.7	2993.1	2975.8	2969.1	2967.1	2969.1
7.5°	2971.0	3013.4	3050.9	3037.4	3008.5	2966.2	2911.3	2863.1	2837.1	2828.5	2826.5
10°	3034.5	3085.6	3101.0	3050.0	2965.2	2863.1	2754.3	2675.3	2630.1	2617.5	2613.7
12.5°	3111.6	3159.7	3138.6	3030.7	2873.7	2709.0	2558.8	2432.6	2338.3	2308.4	2306.5
15°	3196.3	3233.9	3159.7	2971.0	2737.0	2494.3	2226.6	2008.9	1891.4	1853.9	1851.0
17.5°	3275.3	3294.6	3147.2	2867.0	2535.7	2142.8	1787.4	1619.8	1579.4	1589.0	1590.9
20°	3342.7	3342.7	3104.8	2717.7	2218.8	1679.5	1455.2	1452.3	1481.2	1510.0	1515.8
22.5°	3416.9	3372.6	3030.7	2506.8	1770.1	1374.3	1341.5	1368.5	1401.2	1433.0	1437.8
25°	3508.4	3396.6	2927.6	2187.1	1391.6	1248.1	1260.6	1282.8	1299.1	1319.4	1322.3
27.5°	3610.4	3427.5	2791.9	1747.0	1207.7	1169.1	1178.8	1186.5	1184.5	1192.2	1194.2
30°	3732.7	3463.1	2606.0	1365.6	1131.6	1101.7	1084.4	1077.6	1077.6	1090.2	1095.0
32.5°	3896.5	3516.1	2339.2	1170.1	1095.0	1053.6	997.7	972.7	982.3	1024.7	1034.3
35°	4076.6	3572.9	1978.1	1103.6	1087.3	1031.4	944.7	898.5	899.5	939.0	951.5
37.5°	4273.0	3645.1	1582.3	1091.1	1104.6	1032.4	916.8	853.3	827.3	827.3	832.1
40°	4524.4	3719.3	1280.8	1099.8	1141.2	1043.9	902.4	817.6	744.4	746.4	750.2
42.5°	4851.8	3782.8	1119.1	1118.1	1185.5	1059.3	901.4	770.4	706.9	750.2	789.7
45°	5215.8	3814.6	1047.8	1134.5	1221.1	1069.0	886.0	762.7	711.7	840.7	915.9
47.5°	5634.8	3796.3	1008.3	1140.2	1229.8	1069.0	868.7	781.0	745.4	973.6	1061.3
50°	6094.1	3743.3	969.8	1128.7	1226.9	1067.0	885.0	799.3	757.9	996.7	1057.4
52.5°	6634.4	3699.0	929.3	1103.6	1206.7	1056.5	904.3	791.6	718.4	906.2	948.6
55°	7250.7	3711.6	884.1	1068.0	1174.9	1036.2	897.6	760.8	677.0	798.4	824.4
57.5°	8038.5	3860.8	830.1	1022.7	1131.6	1002.5	873.5	746.4	664.5	724.2	739.6
60°	8917.8	4120.9	762.7	977.5	1077.6	948.6	855.2	753.1	670.3	718.4	726.1
62.5°	9563.0	4272.1	704.9	911.0	1004.5	888.9	832.1	761.8	685.7	738.7	736.7
65°	9738.3	4023.6	632.7	813.8	905.3	826.3	803.2	771.4	692.4	755.0	746.4
66°	9492.7	3755.9	600.9	768.5	855.2	795.5	788.7	770.4	689.5	757.0	742.5
67.5°	8896.6	3206.9	546.0	702.1	775.2	749.2	765.6	761.8	681.8	755.0	734.8
70°	7255.6	2188.0	467.1	584.6	645.2	659.7	721.3	730.9	656.8	721.3	677.0
72.5°	5069.4	1332.8	413.1	453.6	522.0	562.4	660.6	688.6	623.1	629.8	587.5
75°	2450.0	707.8	374.6	351.5	405.4	470.0	587.5	630.8	570.1	526.8	511.4
77.5°	763.7	432.4	317.8	283.1	317.8	379.4	491.2	552.8	507.5	441.1	435.3
80°	410.3	317.8	244.6	227.3	251.4	297.6	386.2	461.3	436.3	395.8	353.4
82.5°	270.6	206.1	181.1	176.2	191.6	227.3	287.0	382.3	382.3	339.0	246.5
85°	139.6	126.2	124.2	124.2	133.9	151.2	195.5	294.7	314.0	179.1	148.3
87.5°	69.3	72.2	67.4	70.3	75.1	74.2	93.4	148.3	177.2	108.8	90.5
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)