

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: P192061

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18943 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 191
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

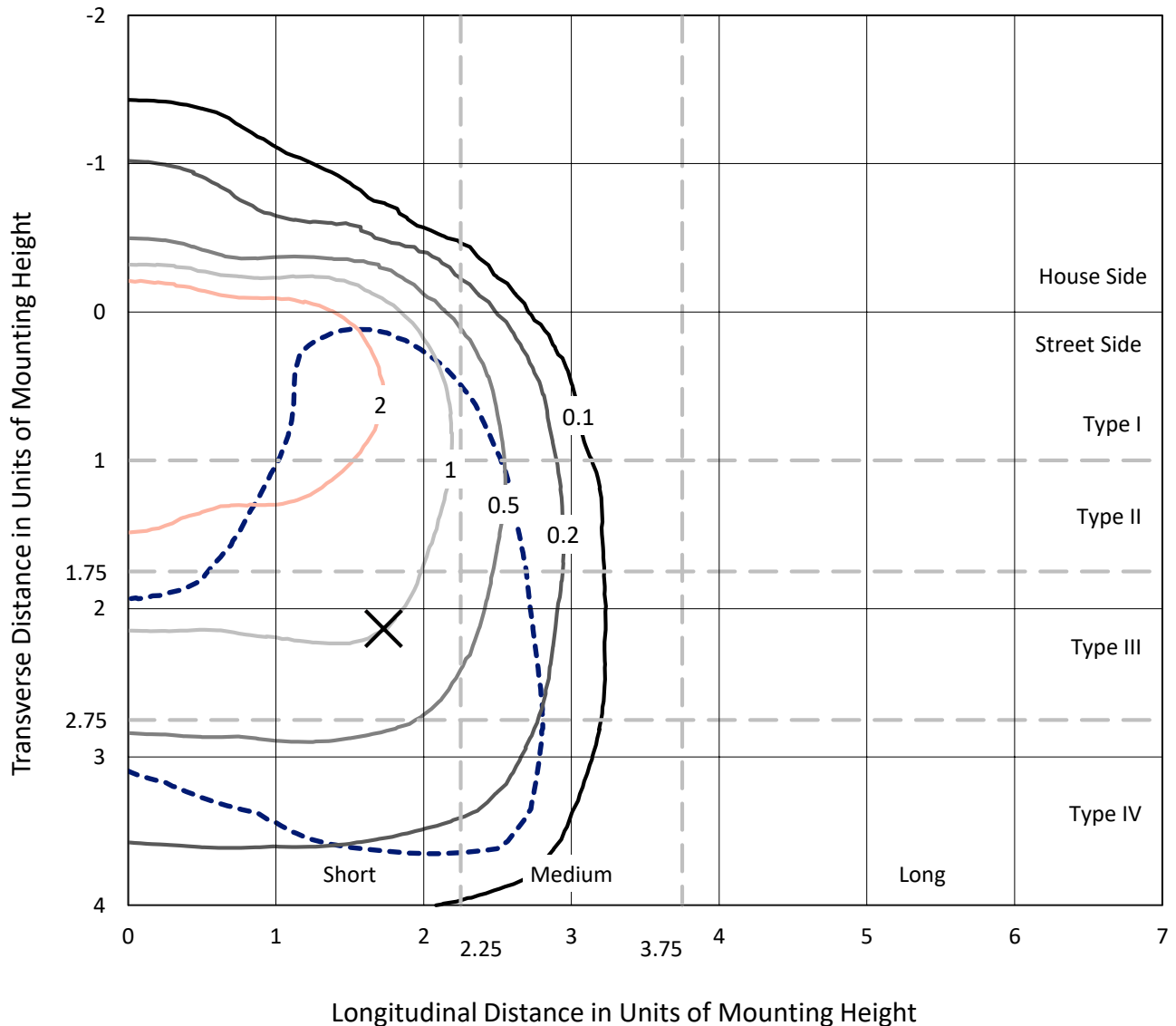


REPORT NUMBER: P192061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

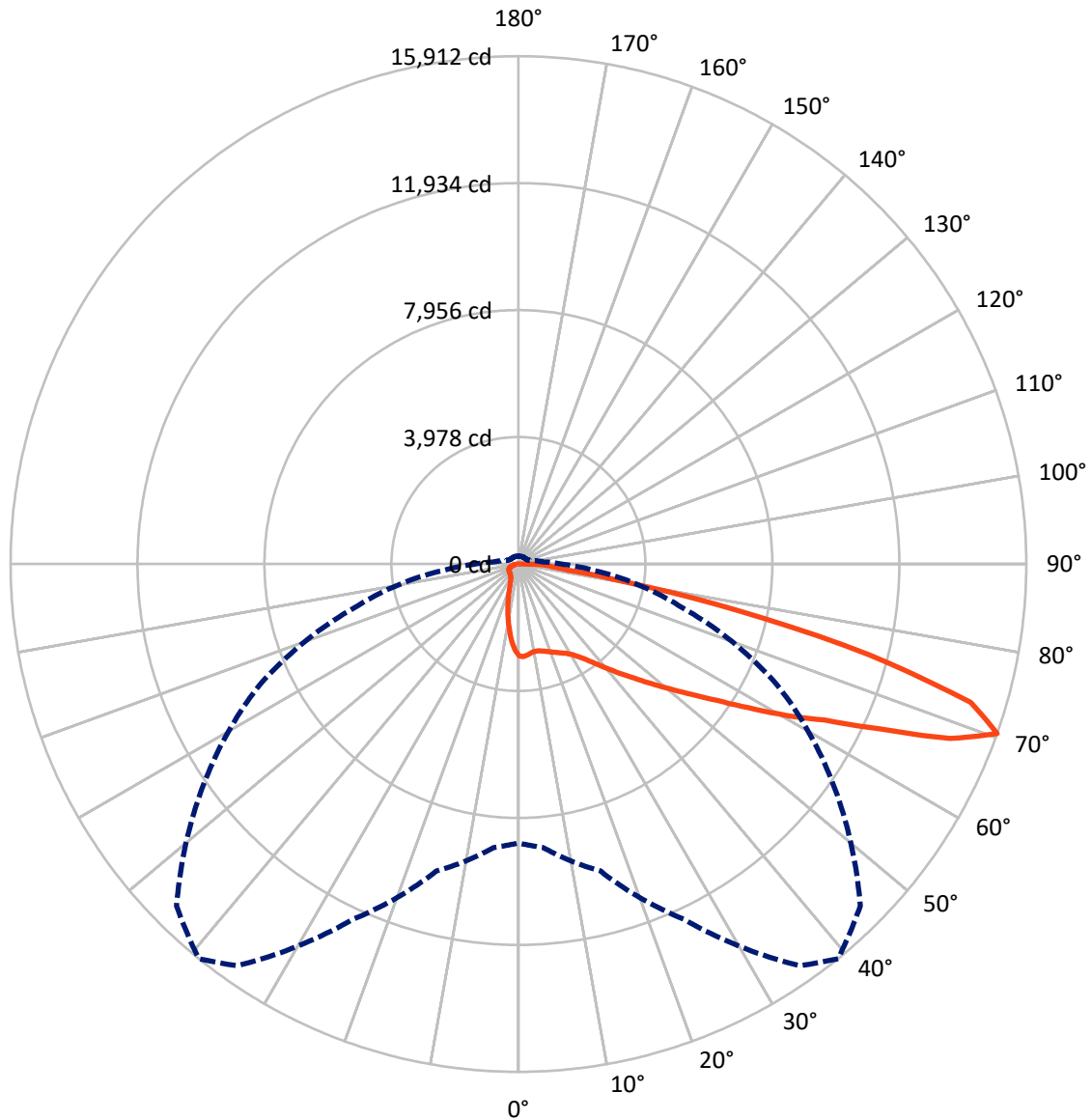


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P192061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.5	0.0	2154.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	16788.5	0.0	16788.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	18943.0	0.0	18943.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	1.3
10°-20°	616.9	3.3
20°-30°	960.5	5.1
30°-40°	1496.4	7.9
40°-50°	2512.1	13.3
50°-60°	3990.7	21.1
60°-70°	5323.2	28.1
70°-80°	3214.5	17.0
80°-90°	581.8	3.1
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°	18943.0	100.0
0°-180°	18943.0	100.0



REPORT NUMBER: P192061

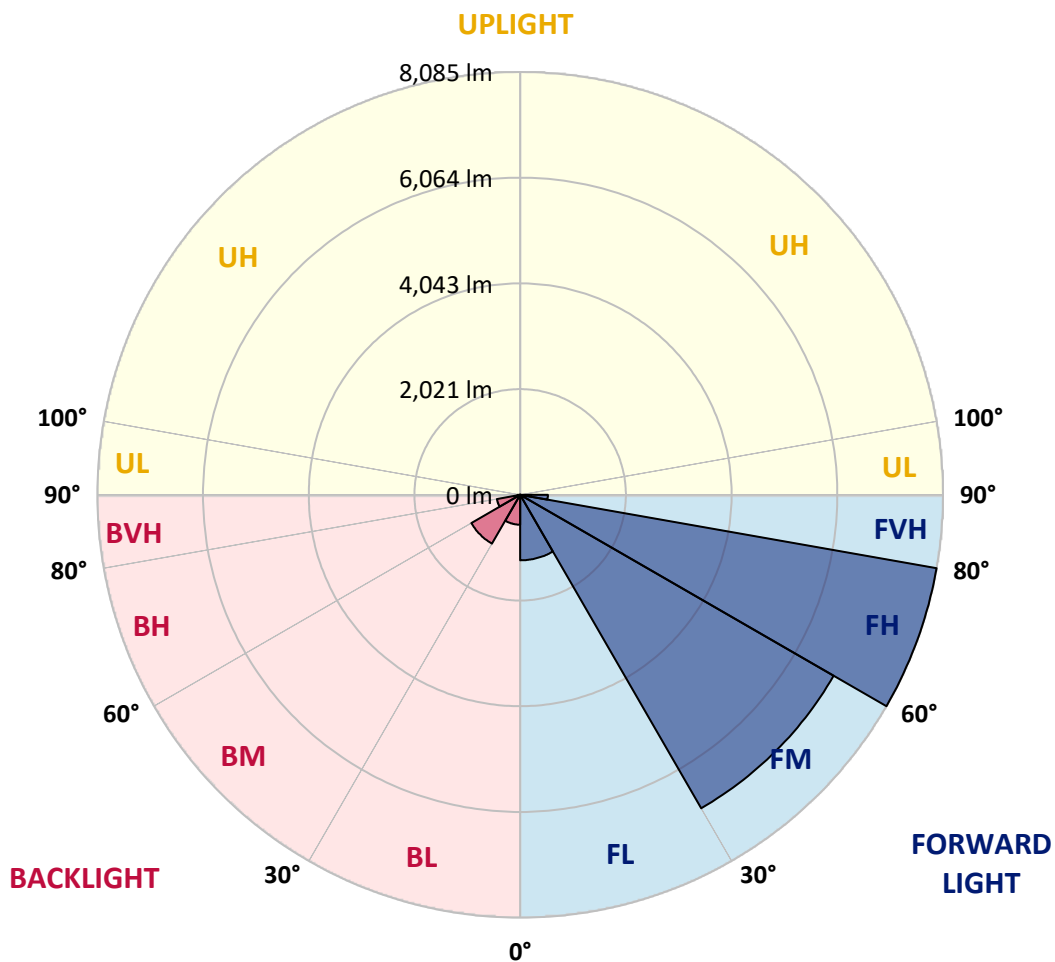
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1252.7	6.6			
FM	(30°-60°)	6921.0	36.5			
FH	(60°-80°)	8085.4	42.7			G4/12000
FVH	(80°-90°)	529.4	2.8			G4/750
BL	(0°-30°)	571.5	3.0	B2/1000		
BM	(30°-60°)	1078.2	5.7	B2/2500		
BH	(60°-80°)	452.3	2.4	B1/500		G1/500
BVH	(80°-90°)	52.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P192061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8
2.5°	2931.7	2930.7	2923.0	2917.3	2912.4	2910.5	2914.4	2899.9	2887.4	2872.0	2855.6
5°	2909.5	2908.6	2896.1	2884.5	2873.0	2869.1	2868.1	2842.1	2826.7	2803.6	2772.8
7.5°	2885.5	2880.7	2864.3	2845.0	2824.8	2815.2	2805.5	2771.8	2754.5	2731.4	2695.7
10°	2860.4	2854.7	2839.2	2820.0	2800.7	2786.3	2769.9	2737.2	2718.9	2701.5	2660.1
12.5°	2834.4	2829.6	2825.8	2817.1	2803.6	2791.1	2778.6	2750.6	2731.4	2711.1	2663.0
15°	2830.6	2828.6	2837.3	2843.1	2835.4	2827.7	2814.2	2790.1	2769.9	2749.7	2687.1
17.5°	2861.4	2860.4	2882.6	2898.0	2894.1	2880.7	2862.4	2835.4	2819.0	2801.7	2723.7
20°	2928.8	2933.6	2960.6	2980.8	2961.6	2942.3	2912.4	2874.9	2866.2	2858.5	2761.2
22.5°	3055.9	3060.8	3080.0	3087.7	3037.6	3009.7	2968.3	2920.1	2914.4	2920.1	2806.5
25°	3254.3	3249.5	3246.6	3217.7	3126.2	3082.9	3029.9	2979.9	2982.7	3008.7	2870.1
27.5°	3517.3	3491.3	3450.8	3364.1	3218.7	3170.6	3106.0	3059.8	3078.1	3128.2	2965.4
30°	3789.8	3760.9	3667.5	3525.9	3340.1	3287.1	3214.9	3162.8	3211.0	3290.0	3092.5
32.5°	4042.2	4038.3	3901.6	3719.5	3507.6	3461.4	3389.2	3330.4	3408.4	3528.8	3283.2
35°	4317.6	4326.3	4162.6	3943.9	3734.0	3685.8	3633.8	3589.5	3693.5	3859.2	3559.6
37.5°	4612.3	4629.7	4436.1	4189.5	3992.1	3971.9	3941.0	3921.8	4082.6	4311.8	3945.9
40°	5006.2	4988.9	4720.2	4466.9	4308.9	4308.0	4298.4	4321.5	4589.2	4903.2	4441.9
42.5°	5428.1	5377.0	5021.6	4764.5	4656.6	4689.4	4708.6	4803.0	5198.9	5621.7	5046.7
45°	5882.7	5768.1	5334.7	5079.4	5042.8	5112.2	5177.7	5382.8	5916.4	6439.3	5709.3
47.5°	6245.8	6135.0	5658.3	5409.8	5489.7	5594.7	5720.9	6045.4	6719.6	7284.0	6363.3
50°	6531.8	6459.6	5984.8	5795.0	5981.9	6143.7	6349.8	6795.7	7555.6	8106.5	6969.1
52.5°	6809.2	6755.2	6314.1	6189.9	6559.7	6783.2	7063.4	7600.8	8412.7	8915.5	7478.5
55°	7059.6	7021.1	6668.6	6682.0	7239.7	7530.5	7883.0	8517.7	9347.0	9636.9	7910.0
57.5°	7341.8	7292.7	7073.1	7299.4	8113.2	8490.8	8949.2	9548.3	10223.4	10278.3	8238.4
60°	7625.9	7583.5	7521.9	8012.1	9222.7	9619.5	10053.9	10547.0	11112.3	10776.2	8219.2
62.5°	7872.4	7877.3	7986.1	8760.4	10309.1	10768.5	11298.2	11785.6	11916.5	10862.9	7611.4
65°	8290.4	8366.5	8691.1	9819.9	11838.5	12453.0	13103.1	13025.1	12139.0	10052.9	6308.4
67.5°	8787.4	8921.3	9579.1	11231.8	13771.5	14587.2	14838.6	13305.3	11248.1	8172.0	4496.8
70°	8737.3	8921.3	9962.4	12284.4	15364.5	15911.5	15148.7	12041.7	8931.9	5338.5	2388.5
72.5°	7758.8	8021.7	9181.3	11801.9	14862.7	14814.5	13151.2	8977.1	5306.7	2143.9	933.3
75°	5913.5	6179.3	7177.1	9323.9	11747.0	11342.5	9331.6	4959.0	2013.9	851.4	588.5
77.5°	3401.7	3607.8	4378.3	5718.0	7452.5	7037.4	5194.0	2205.5	980.4	593.3	459.4
80°	1899.2	2013.9	2481.9	2900.9	3652.1	3347.8	2324.0	1370.5	732.0	430.5	354.4
82.5°	1501.5	1603.6	2007.1	1829.9	1668.1	1539.0	1334.9	1220.3	584.6	271.6	211.9
85°	1311.8	1409.0	1698.9	1440.8	1139.4	1045.0	1084.5	1201.0	454.6	163.7	181.1
87.5°	1215.4	1345.5	1514.0	1110.5	887.0	785.9	1000.7	1316.6	146.4	102.1	73.2
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: P192061

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL4-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8	2875.8
2.5°	2841.2	2825.8	2800.7	2778.6	2743.9	2725.6	2705.4	2690.9	2679.4	2669.7	2685.1
5°	2753.5	2724.6	2671.7	2614.8	2547.4	2494.5	2450.1	2408.7	2379.8	2360.6	2374.1
7.5°	2670.7	2623.5	2540.7	2437.6	2322.1	2223.8	2142.9	2071.6	2022.5	1990.7	2003.3
10°	2623.5	2564.8	2436.7	2274.9	2104.4	1951.3	1824.1	1714.3	1638.2	1594.9	1601.6
12.5°	2611.9	2535.9	2358.7	2136.2	1903.1	1690.3	1511.1	1358.9	1252.0	1196.2	1198.1
15°	2620.6	2523.3	2285.5	2003.3	1708.6	1439.8	1216.4	1031.5	907.2	843.7	842.7
17.5°	2635.1	2513.7	2208.4	1859.8	1511.1	1199.1	949.6	768.6	658.8	607.7	603.9
20°	2650.5	2498.3	2121.7	1704.7	1306.0	975.6	743.5	601.9	532.6	504.7	502.7
22.5°	2672.6	2484.8	2032.2	1541.0	1104.7	794.6	611.6	516.2	479.6	465.2	463.3
25°	2708.3	2478.1	1936.8	1370.5	923.6	664.5	532.6	473.8	452.7	443.0	442.1
27.5°	2768.0	2487.7	1847.2	1204.8	776.3	576.9	488.3	452.7	437.3	428.6	427.6
30°	2845.0	2517.6	1752.9	1047.9	661.7	517.2	461.3	438.2	425.7	417.0	417.0
32.5°	2973.1	2567.6	1653.7	912.1	579.8	475.8	441.1	425.7	415.1	408.4	407.4
35°	3161.9	2662.0	1561.2	799.4	521.0	445.9	423.8	412.2	404.5	400.7	400.7
37.5°	3436.4	2811.3	1479.3	718.5	485.4	425.7	407.4	398.7	393.9	393.9	393.9
40°	3805.2	3017.4	1412.9	664.5	465.2	411.2	394.9	388.1	385.2	386.2	386.2
42.5°	4260.8	3285.2	1368.6	627.0	455.6	402.6	386.2	380.4	377.5	376.6	377.5
45°	4779.9	3589.5	1363.8	599.1	445.9	396.8	380.4	374.6	368.9	365.0	365.0
47.5°	5284.6	3898.7	1403.2	589.4	435.3	390.1	375.6	369.8	361.2	352.5	352.5
50°	5730.5	4161.6	1456.2	593.3	431.5	380.4	367.9	365.0	351.5	341.9	340.9
52.5°	6084.9	4363.8	1499.6	604.8	435.3	373.7	358.3	359.2	344.8	334.2	333.2
55°	6369.0	4496.8	1488.0	616.4	444.0	369.8	349.6	351.5	340.0	329.4	329.4
57.5°	6493.3	4447.6	1359.9	606.8	450.7	370.8	342.9	350.6	340.9	331.3	331.3
60°	6226.5	4011.3	1120.1	564.4	442.1	367.9	340.0	354.4	353.5	343.8	342.9
62.5°	5419.4	3230.3	868.7	501.8	412.2	353.5	332.3	353.5	364.1	361.2	360.2
65°	4177.0	2300.9	663.6	434.4	371.8	329.4	312.0	331.3	345.8	349.6	348.6
67.5°	2711.1	1410.0	511.4	370.8	326.5	301.5	286.0	294.7	297.6	297.6	295.7
70°	1332.9	758.9	407.4	312.0	280.3	271.6	262.9	258.1	253.3	249.4	249.4
72.5°	657.8	496.0	335.2	263.9	241.7	237.9	236.0	230.2	226.3	221.5	219.6
75°	486.4	403.5	285.1	222.5	208.0	204.2	208.0	203.2	202.3	198.4	196.5
77.5°	399.7	343.8	245.6	190.7	178.2	171.4	177.2	178.2	179.1	173.4	171.4
80°	324.6	290.9	205.1	157.9	146.4	141.6	145.4	153.1	155.1	146.4	142.5
82.5°	234.0	237.9	165.7	123.3	113.6	109.8	117.5	127.1	129.1	116.5	113.6
85°	196.5	198.4	127.1	87.6	78.0	72.2	84.8	94.4	101.1	88.6	85.7
87.5°	81.9	116.5	73.2	49.1	43.3	37.6	45.3	50.1	60.7	55.9	54.9
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)