

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: P192901

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14200.4 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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



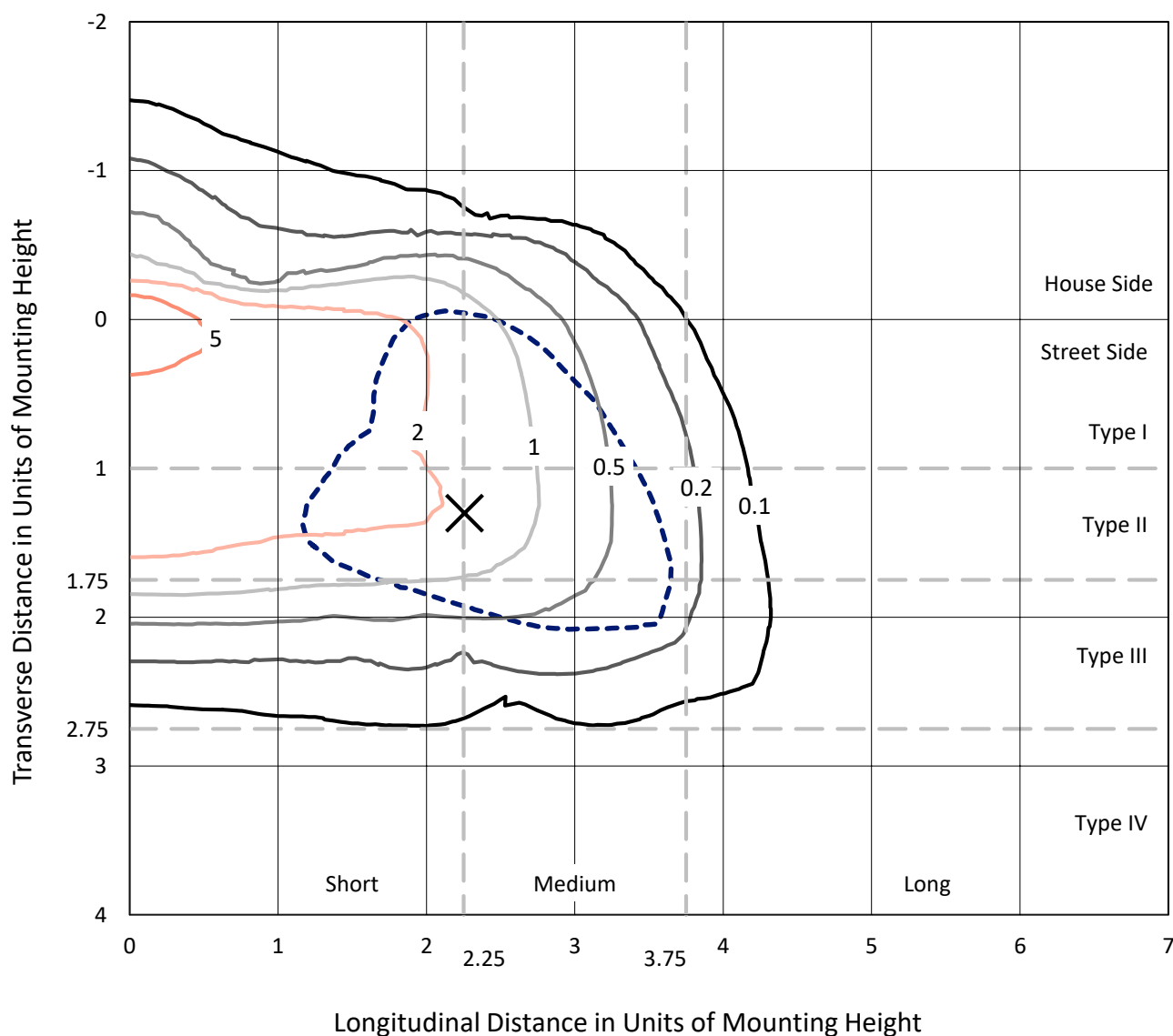
REPORT NUMBER: P192901

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

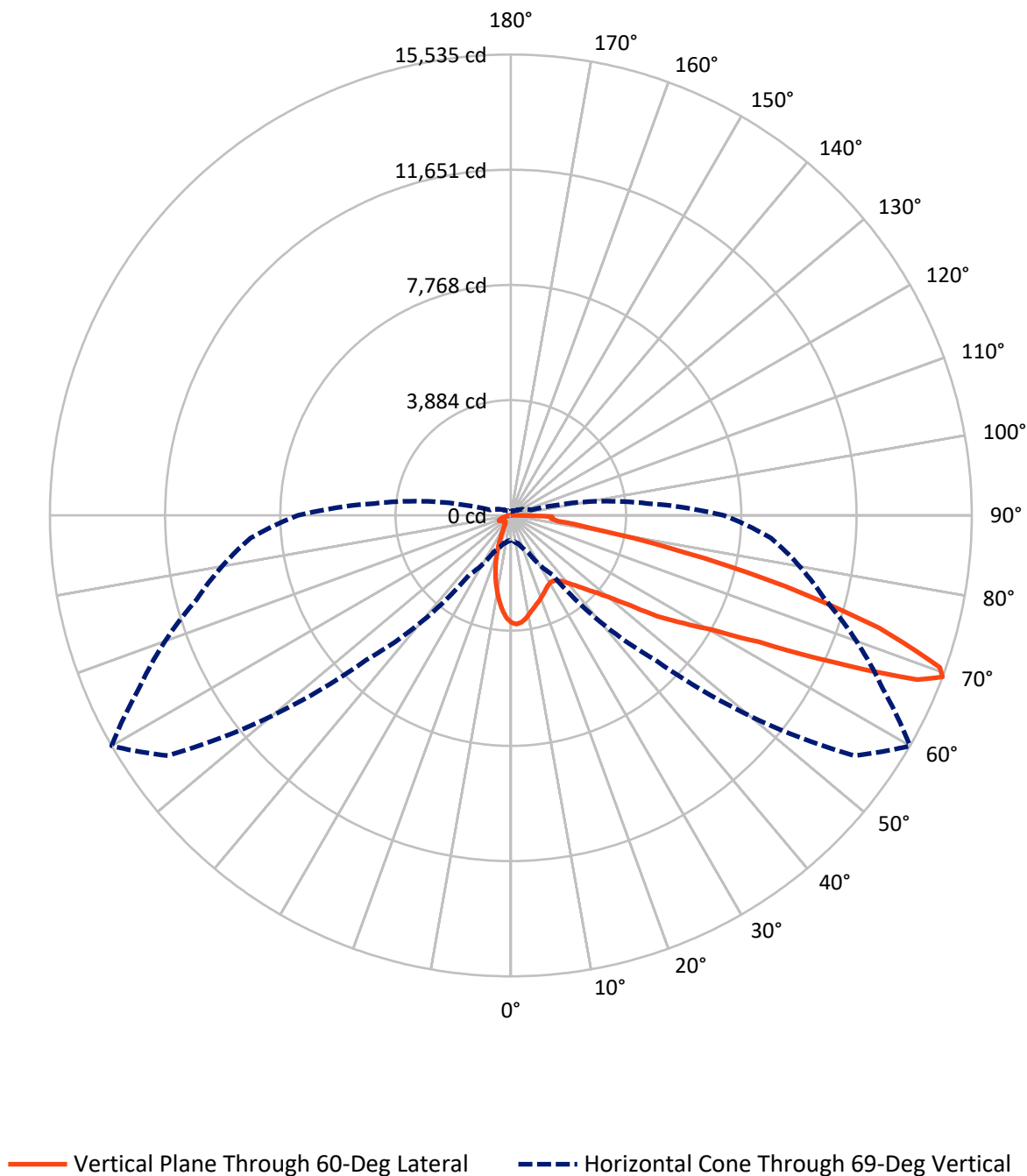


Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P192901

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7030-800

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2020.3	0.0	2020.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12180.2	0.0	12180.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	14200.4	0.0	14200.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	2.2
10°-20°	651.9	4.6
20°-30°	830.6	5.8
30°-40°	1141.8	8.0
40°-50°	1852.8	13.0
50°-60°	2971.3	20.9
60°-70°	3954.6	27.8
70°-80°	2135.2	15.0
80°-90°	356.3	2.5
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°	14200.4	100.0
0°-180°	14200.4	100.0

Coefficient of Utilization



REPORT NUMBER: P192901

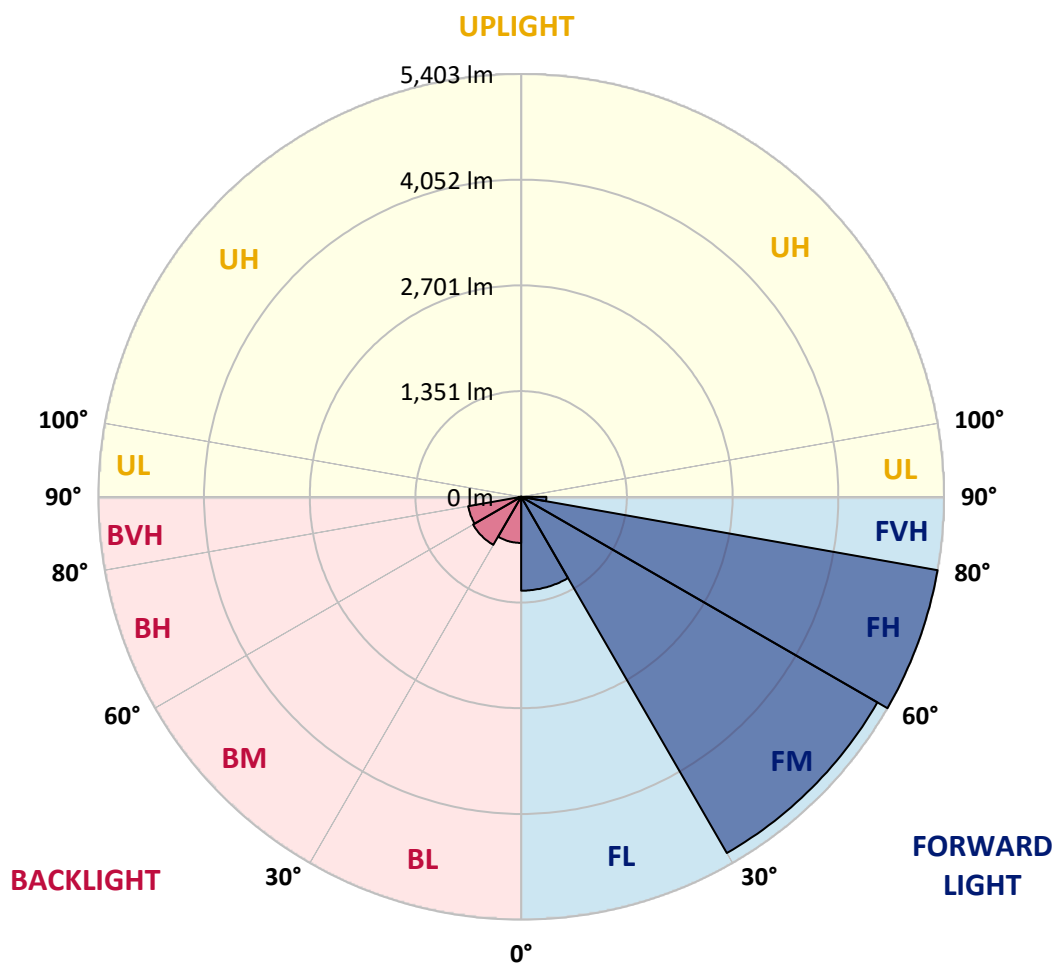
CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1199.0	8.4			
FM	(30°-60°)	5256.2	37.0			
FH	(60°-80°)	5403.0	38.0			G3/7500
FVH	(80°-90°)	322.0	2.3			G3/500
BL	(0°-30°)	589.4	4.2	B2/1000		
BM	(30°-60°)	709.8	5.0	B1/1000		
BH	(60°-80°)	686.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	34.3	0.2			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 Medium



REPORT NUMBER: P192901

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4
2.5°	3692.5	3700.8	3697.4	3695.3	3701.4	3691.9	3671.9	3665.8	3656.3	3633.5	3595.1
5°	3553.9	3578.7	3577.3	3595.8	3626.8	3634.9	3626.0	3627.4	3609.6	3581.4	3517.6
7.5°	3314.6	3324.9	3330.3	3370.8	3427.1	3472.4	3510.8	3523.2	3514.9	3491.0	3408.6
10°	3067.7	3075.8	3088.9	3136.3	3207.7	3270.0	3342.7	3384.6	3402.5	3398.3	3306.4
12.5°	2855.7	2863.9	2881.0	2934.6	3019.6	3096.5	3202.1	3254.3	3296.8	3322.1	3223.3
15°	2665.7	2683.5	2700.1	2761.7	2857.0	2957.8	3077.3	3143.1	3209.0	3265.9	3150.0
17.5°	2517.6	2535.4	2544.9	2601.3	2702.7	2826.2	2966.2	3043.6	3125.9	3219.3	3077.3
20°	2431.8	2440.0	2435.8	2467.4	2558.7	2689.6	2855.7	2945.5	3045.0	3175.4	3004.5
22.5°	2407.7	2408.4	2393.4	2389.9	2448.9	2559.4	2737.7	2846.8	2968.9	3146.5	2942.2
25°	2466.1	2464.1	2422.9	2389.3	2395.4	2459.9	2623.9	2750.7	2905.1	3140.3	2894.1
27.5°	2595.7	2601.9	2540.9	2477.7	2415.2	2413.2	2537.4	2671.2	2853.0	3168.5	2873.5
30°	2777.5	2787.8	2722.6	2642.3	2525.1	2428.3	2503.7	2623.9	2820.7	3226.8	2870.1
32.5°	2976.4	2987.3	2938.0	2853.7	2700.1	2521.6	2527.0	2627.9	2819.3	3308.5	2893.4
35°	3188.4	3200.7	3175.4	3104.0	2933.2	2693.8	2616.3	2694.5	2863.9	3433.3	2955.8
37.5°	3425.1	3444.3	3451.1	3383.2	3200.7	2920.8	2762.4	2820.7	2964.8	3606.8	3070.4
40°	3765.9	3792.7	3790.6	3693.3	3507.3	3227.5	2988.1	3003.2	3121.9	3838.8	3253.5
42.5°	4419.0	4424.5	4253.7	4041.7	3844.9	3549.9	3254.3	3241.9	3338.6	4132.3	3523.2
45°	5249.7	5227.1	4847.1	4437.6	4197.4	3920.3	3600.6	3540.3	3613.6	4490.3	3860.6
47.5°	5939.2	5887.0	5406.8	4841.6	4570.7	4323.0	4007.4	3901.7	3942.3	4896.5	4296.9
50°	6178.5	6139.4	5741.6	5177.7	4923.9	4814.2	4508.1	4358.7	4369.6	5380.7	4808.0
52.5°	6127.0	6121.6	5856.1	5399.3	5254.5	5330.0	5217.4	5015.1	4908.2	5918.6	5359.5
55°	6005.7	6017.4	5921.3	5657.2	5632.6	5828.0	6144.2	5994.7	5662.1	6461.1	5929.5
57.5°	5583.8	5614.0	5825.2	5981.6	6240.9	6531.8	6890.6	6848.1	6473.5	7047.7	6607.2
60°	4498.5	4568.5	5135.1	5918.6	6867.3	7776.8	7937.3	7838.6	7310.3	7775.4	7502.4
62.5°	3152.0	3224.8	3898.4	5124.2	6764.4	9183.0	9808.6	9382.6	8512.2	8847.6	8661.1
65°	1687.5	1722.5	2237.0	3555.4	5710.7	9473.3	12543.6	11895.4	10415.0	10169.6	9652.3
67.5°	930.9	950.1	1146.9	1795.1	3657.6	8342.1	14285.9	14775.7	12793.2	11049.6	9471.9
69°	841.8	859.6	988.5	1359.6	2447.5	6897.4	14115.9	15535.1	13835.9	10962.4	8805.1
70°	823.2	839.6	955.6	1253.3	1981.1	5685.3	13545.9	15341.0	14084.3	10650.4	8223.4
72.5°	740.9	758.7	871.3	1125.7	1693.0	2834.4	10730.0	12970.9	12787.1	9234.5	6237.5
75°	690.7	707.2	897.9	1102.3	1621.0	1793.8	7073.7	9559.6	9399.8	6459.7	3363.3
77.5°	295.6	294.2	416.4	933.0	1644.9	1736.9	3800.9	5972.0	5448.6	2761.0	965.9
80°	197.5	194.2	197.5	274.3	1508.5	1746.5	1991.4	3031.3	2289.7	703.8	476.1
82.5°	170.1	167.3	173.5	167.3	530.2	1993.4	1693.0	1612.0	1088.7	399.9	236.0
85°	114.5	109.8	149.5	150.2	250.4	1771.2	1907.0	1361.7	880.7	237.3	116.6
87.5°	54.8	53.5	87.1	106.3	146.9	719.6	2139.6	1395.2	888.3	121.4	55.6
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: P192901

CATALOG NUMBER: GLEON-AF-03-LED-E1-SL3-7030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4	3618.4
2.5°	3583.4	3555.4	3528.0	3494.9	3460.7	3422.3	3403.1	3383.9	3379.1	3373.6	3354.4
5°	3484.8	3445.0	3376.3	3300.8	3221.3	3143.8	3084.8	3047.8	3019.6	3005.1	2979.8
7.5°	3357.1	3298.9	3178.8	3048.5	2914.7	2792.5	2686.9	2620.4	2557.3	2527.8	2494.2
10°	3235.7	3148.7	2962.0	2769.9	2577.9	2393.4	2219.8	2097.0	1988.0	1926.9	1883.6
12.5°	3131.5	3012.1	2753.5	2493.6	2230.1	1967.3	1707.4	1503.0	1332.2	1242.3	1196.3
15°	3029.9	2885.9	2555.2	2225.3	1887.1	1529.7	1188.0	956.2	815.0	758.7	739.4
17.5°	2938.0	2753.5	2356.2	1954.9	1533.1	1101.0	798.4	670.9	616.7	598.2	591.9
20°	2838.5	2619.7	2149.7	1672.4	1164.0	769.6	623.6	567.3	545.3	539.8	537.1
22.5°	2742.5	2488.1	1952.3	1369.9	836.2	594.1	535.7	512.4	509.0	513.7	513.7
25°	2660.9	2370.1	1739.0	1053.7	613.9	500.1	479.5	473.9	487.1	504.9	508.3
27.5°	2599.9	2273.2	1511.8	777.9	489.1	434.9	434.2	443.1	475.4	509.7	516.6
30°	2558.0	2181.4	1269.0	561.1	410.2	382.7	393.8	413.0	460.3	509.0	522.0
32.5°	2536.7	2113.5	1015.9	434.2	351.3	336.1	354.6	377.9	424.6	470.0	487.1
35°	2553.2	2063.4	777.2	362.2	310.1	298.4	317.6	340.3	367.6	386.9	399.9
37.5°	2614.9	2043.4	586.5	324.5	281.9	271.0	286.0	299.1	310.1	315.5	321.8
40°	2748.0	2064.8	470.0	305.3	266.1	252.4	258.6	263.5	270.3	275.8	278.5
42.5°	2944.2	2128.6	421.2	297.7	258.0	238.0	236.6	238.7	247.6	258.0	259.9
45°	3218.6	2241.0	417.8	302.5	253.8	226.3	220.1	222.9	236.6	252.4	255.2
47.5°	3569.1	2412.6	445.2	317.0	257.2	220.1	209.9	213.4	230.5	251.8	255.2
50°	3993.8	2651.9	491.1	338.1	272.4	221.6	206.5	208.5	226.3	249.6	253.2
52.5°	4495.2	2991.5	541.3	358.8	288.1	230.5	209.2	204.5	220.9	241.5	245.7
55°	5052.8	3427.1	592.6	377.3	296.3	241.5	214.7	199.0	210.6	227.7	231.2
57.5°	5737.4	4036.2	681.9	395.1	301.8	249.0	220.1	193.4	197.5	209.9	212.6
60°	6664.2	4897.8	838.9	424.6	314.1	251.8	219.5	188.7	184.5	191.4	192.8
62.5°	7774.8	5833.5	970.0	461.6	334.8	253.8	215.3	185.2	173.5	173.5	175.0
65°	8433.9	6083.9	897.2	492.5	352.0	251.8	210.6	181.8	165.3	157.8	158.4
67.5°	7875.0	5350.5	768.9	498.7	351.3	242.1	203.0	175.6	157.2	145.5	144.8
69°	7174.5	4616.5	711.4	482.3	334.8	229.8	193.4	168.7	150.9	138.5	137.8
70°	6609.9	4168.7	673.6	464.4	317.0	220.9	185.8	162.6	146.1	134.5	133.1
72.5°	4805.9	2731.5	575.6	399.3	261.3	185.2	160.5	142.7	130.3	123.5	122.2
75°	2401.6	1302.7	467.2	323.7	200.3	148.1	131.6	119.3	113.2	111.8	111.1
77.5°	788.9	596.8	334.2	241.5	148.8	116.0	106.3	97.5	96.0	100.2	98.8
80°	433.5	347.1	212.0	159.8	101.5	85.1	83.7	78.8	81.0	87.9	86.5
82.5°	220.9	180.4	131.0	96.0	68.7	61.0	66.5	63.8	66.5	72.7	72.0
85°	109.0	98.8	83.0	58.4	45.3	39.2	47.3	49.3	50.8	55.6	55.6
87.5°	63.2	58.4	43.9	27.5	22.6	20.5	27.5	26.8	31.5	34.3	33.7
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)