

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: P192920

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192920
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-02-LED-E1-SL3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 12922.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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



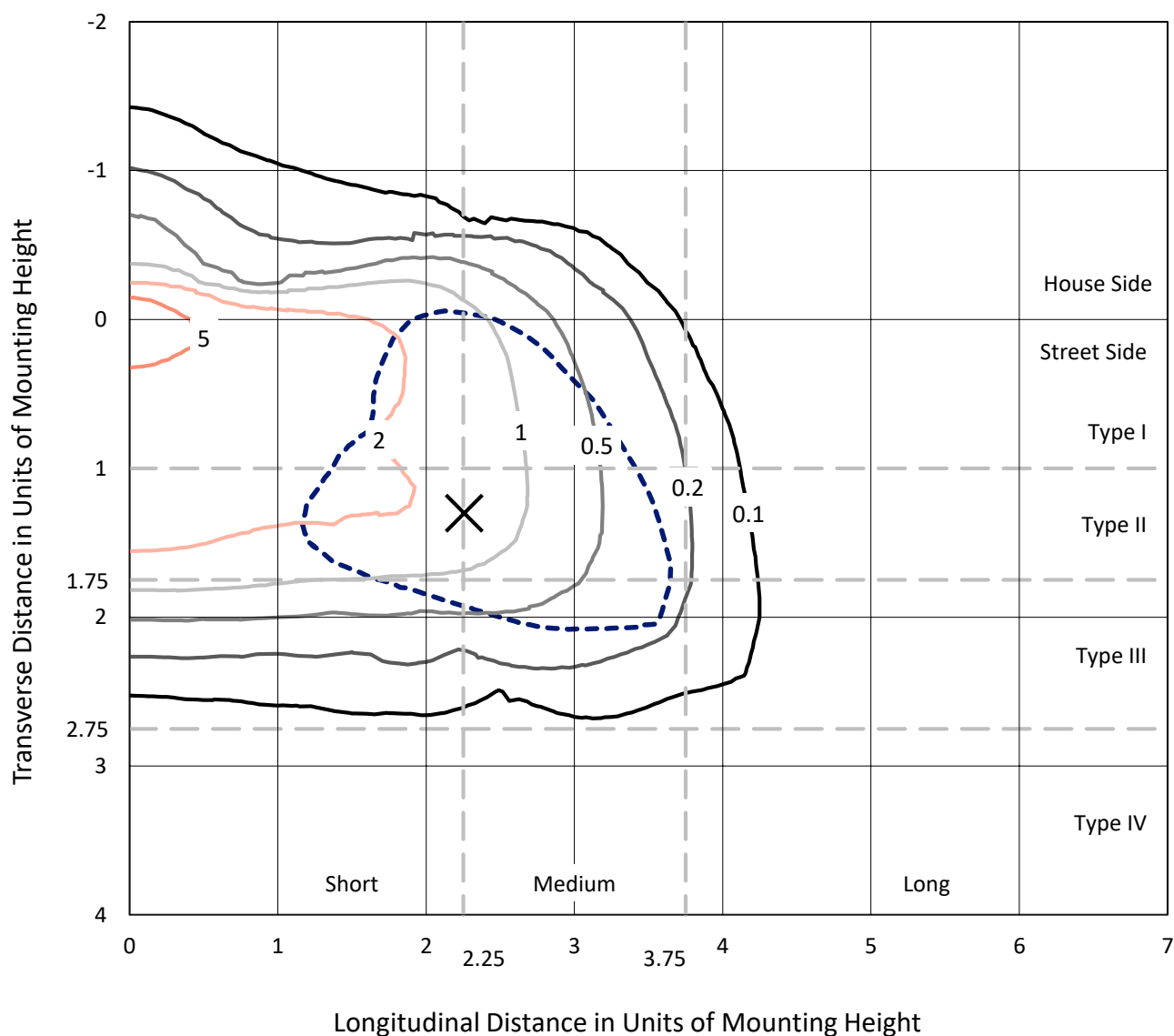
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

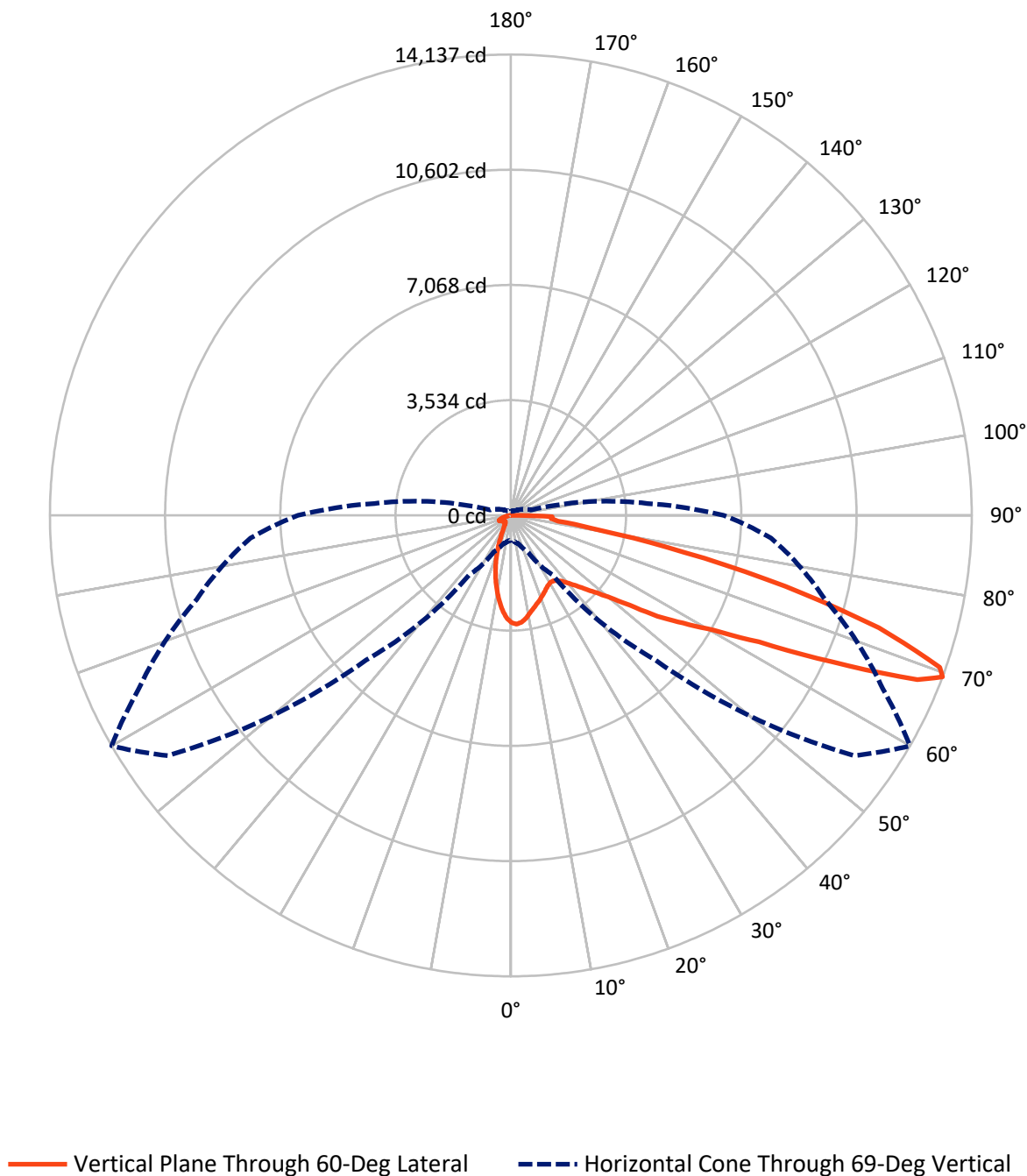


Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1838.4	0.0	1838.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11083.7	0.0	11083.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	12922.1	0.0	12922.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.4	2.2
10°-20°	593.2	4.6
20°-30°	755.8	5.8
30°-40°	1039.1	8.0
40°-50°	1686.0	13.0
50°-60°	2703.9	20.9
60°-70°	3598.6	27.8
70°-80°	1943.0	15.0
80°-90°	324.2	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°	12922.1	100.0
0°-180°	12922.1	100.0

Coefficient of Utilization



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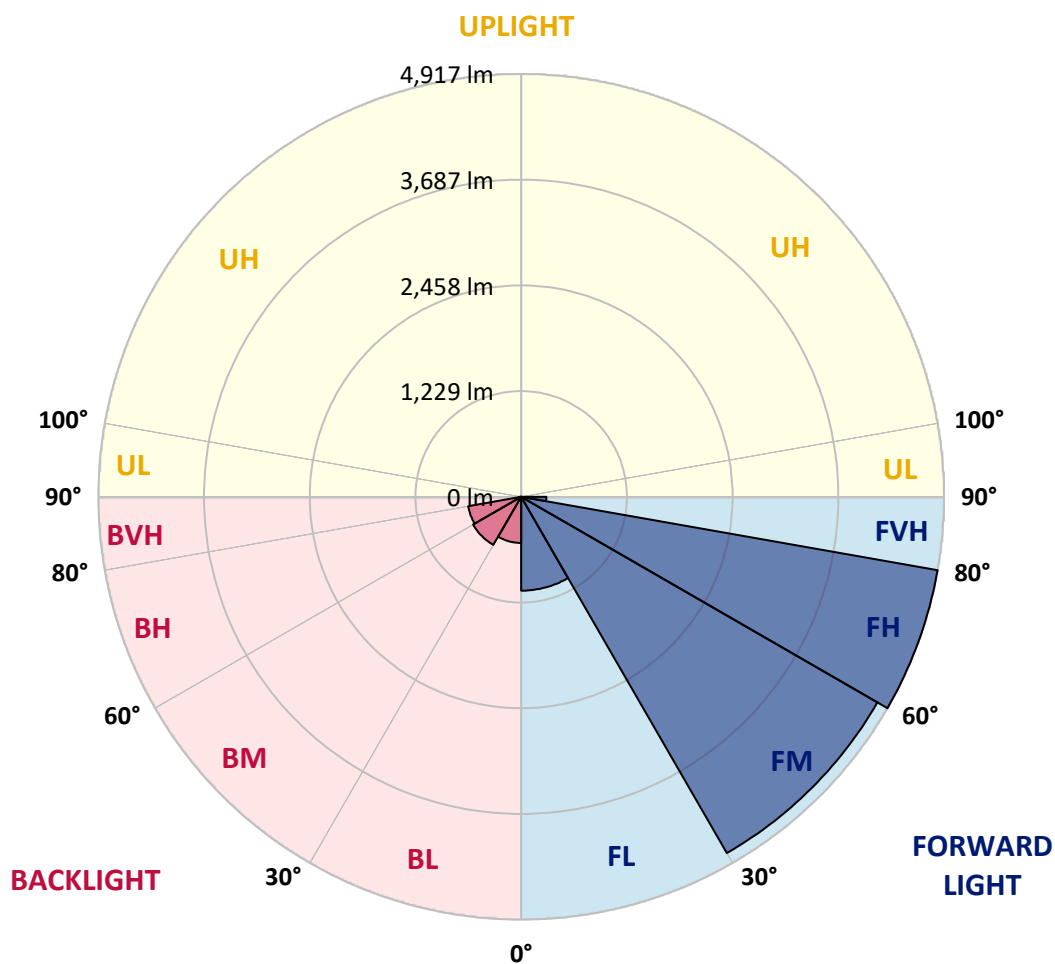
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1091.1	8.4			
FM	(30°-60°)	4783.0	37.0			
FH	(60°-80°)	4916.6	38.0			G2/5000
FVH	(80°-90°)	293.0	2.3			G3/500
BL	(0°-30°)	536.3	4.2	B2/1000		
BM	(30°-60°)	645.9	5.0	B1/1000		
BH	(60°-80°)	625.0	4.8	B2/1000		G2/1000
BVH	(80°-90°)	31.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7
2.5°	3360.2	3367.7	3364.5	3362.7	3368.3	3359.5	3341.4	3335.8	3327.1	3306.5	3271.5
5°	3234.1	3256.6	3255.3	3272.1	3300.2	3307.8	3299.6	3300.8	3284.7	3258.9	3201.0
7.5°	3016.2	3025.6	3030.6	3067.5	3118.6	3159.8	3194.7	3206.0	3198.4	3176.6	3101.8
10°	2791.5	2799.0	2810.8	2854.0	2918.9	2975.6	3041.8	3079.9	3096.1	3092.4	3008.7
12.5°	2598.6	2606.2	2621.6	2670.4	2747.8	2817.7	2913.8	2961.3	3000.0	3023.1	2933.2
15°	2425.7	2442.0	2456.9	2513.1	2599.9	2691.6	2800.2	2860.2	2920.1	2971.9	2866.4
17.5°	2290.8	2307.1	2315.9	2367.0	2459.4	2571.8	2699.1	2769.6	2844.6	2929.5	2800.2
20°	2212.8	2220.3	2216.6	2245.3	2328.4	2447.5	2598.6	2680.3	2771.0	2889.5	2734.1
22.5°	2190.9	2191.6	2177.9	2174.8	2228.5	2329.0	2491.2	2590.5	2701.7	2863.2	2677.3
25°	2244.0	2242.2	2204.8	2174.2	2179.7	2238.4	2387.7	2503.1	2643.5	2857.6	2633.5
27.5°	2362.0	2367.6	2312.2	2254.7	2197.9	2196.0	2308.9	2430.7	2596.1	2883.3	2614.8
30°	2527.5	2536.8	2477.6	2404.5	2297.7	2209.8	2278.4	2387.7	2566.8	2936.4	2611.8
32.5°	2708.4	2718.5	2673.6	2596.8	2456.9	2294.7	2299.6	2391.3	2565.5	3010.6	2632.9
35°	2901.4	2912.7	2889.5	2824.6	2669.2	2451.3	2380.8	2451.9	2606.2	3124.2	2689.8
37.5°	3116.7	3134.2	3140.4	3078.6	2912.7	2658.0	2513.7	2566.8	2697.8	3282.1	2794.0
40°	3426.9	3451.3	3449.5	3360.9	3191.6	2936.9	2719.1	2732.8	2840.8	3493.1	2960.7
42.5°	4021.2	4026.2	3870.7	3677.8	3498.7	3230.4	2961.3	2950.0	3038.1	3760.2	3206.0
45°	4777.2	4756.5	4410.7	4038.1	3819.6	3567.5	3276.4	3221.6	3288.3	4086.1	3513.1
47.5°	5404.5	5357.0	4920.1	4405.8	4159.2	3933.8	3646.6	3550.6	3587.4	4455.7	3910.1
50°	5622.4	5586.8	5224.7	4711.6	4480.6	4380.8	4102.3	3966.3	3976.3	4896.4	4375.2
52.5°	5575.5	5570.5	5328.9	4913.2	4781.5	4850.1	4747.8	4563.6	4466.3	5385.7	4877.0
55°	5465.0	5475.6	5388.2	5148.0	5125.5	5303.3	5591.2	5455.0	5152.3	5879.5	5395.8
57.5°	5081.1	5108.6	5300.8	5443.2	5679.1	5943.8	6270.3	6231.6	5890.7	6413.2	6012.4
60°	4093.6	4157.4	4672.9	5385.7	6249.1	7076.7	7222.8	7132.9	6652.2	7075.5	6827.1
62.5°	2868.3	2934.4	3547.4	4662.8	6155.4	8356.3	8925.7	8538.1	7745.9	8051.2	7881.4
65°	1535.5	1567.5	2035.6	3235.2	5196.6	8620.4	11414.5	10824.6	9477.4	9254.0	8783.4
67.5°	847.1	864.6	1043.7	1633.5	3328.4	7591.2	13000.0	13445.7	11641.7	10054.9	8619.3
69°	765.9	782.2	899.5	1237.3	2227.2	6276.5	12845.2	14136.6	12590.5	9975.6	8012.4
70°	749.1	764.0	869.4	1140.4	1802.8	5173.5	12326.4	13959.9	12816.4	9691.7	7483.1
72.5°	674.1	690.4	792.7	1024.3	1540.5	2579.3	9764.0	11803.3	11636.0	8403.2	5676.0
75°	628.6	643.5	817.1	1003.1	1475.0	1632.4	6436.9	8699.1	8553.7	5878.2	3060.6
77.5°	269.0	267.8	378.9	849.0	1496.9	1580.6	3458.8	5434.4	4958.1	2512.5	878.9
80°	179.7	176.7	179.7	249.6	1372.7	1589.2	1812.1	2758.5	2083.7	640.5	433.2
82.5°	154.8	152.3	157.9	152.3	482.5	1813.9	1540.5	1467.0	990.7	364.0	214.7
85°	104.3	99.9	136.0	136.7	227.8	1611.7	1735.4	1239.1	801.5	216.0	106.1
87.5°	49.9	48.7	79.3	96.8	133.7	654.8	1946.9	1269.7	808.4	110.5	50.6
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°	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7	3292.7
2.5°	3261.0	3235.2	3210.4	3180.4	3149.2	3114.2	3096.7	3079.3	3074.9	3069.8	3052.3
5°	3171.0	3134.8	3072.4	3003.7	2931.3	2860.7	2807.1	2773.4	2747.8	2734.6	2711.6
7.5°	3054.9	3001.9	2892.6	2774.0	2652.3	2541.2	2445.1	2384.5	2327.1	2300.2	2269.7
10°	2944.4	2865.1	2695.3	2520.6	2345.8	2177.9	2019.9	1908.2	1809.0	1753.4	1714.1
12.5°	2849.6	2741.0	2505.7	2269.0	2029.4	1790.2	1553.6	1367.7	1212.2	1130.5	1088.7
15°	2757.1	2626.0	2325.2	2025.0	1717.2	1392.0	1081.1	870.1	741.6	690.4	672.9
17.5°	2673.6	2505.7	2144.2	1779.1	1395.1	1001.9	726.6	610.4	561.1	544.3	538.6
20°	2583.0	2383.9	1956.3	1521.9	1059.3	700.4	567.4	516.2	496.2	491.2	488.7
22.5°	2495.6	2264.1	1776.5	1246.5	760.9	540.7	487.6	466.3	463.2	467.5	467.5
25°	2421.3	2156.7	1582.4	958.7	558.7	455.1	436.4	431.3	443.1	459.4	462.5
27.5°	2365.8	2068.6	1375.8	707.9	445.0	395.7	395.1	403.2	432.5	463.8	470.1
30°	2327.7	1985.0	1154.8	510.6	373.2	348.3	358.3	375.8	418.9	463.2	475.1
32.5°	2308.3	1923.2	924.5	395.1	319.6	305.8	322.8	343.9	386.3	427.6	443.1
35°	2323.3	1877.6	707.2	329.6	282.1	271.5	289.0	309.6	334.6	352.1	364.0
37.5°	2379.5	1859.6	533.7	295.2	256.5	246.6	260.2	272.2	282.1	287.2	292.7
40°	2500.6	1878.9	427.6	277.7	242.2	229.7	235.4	239.8	246.0	251.0	253.5
42.5°	2679.1	1936.9	383.3	271.0	234.7	216.6	215.3	217.2	225.3	234.7	236.5
45°	2928.8	2039.4	380.1	275.4	231.0	206.0	200.4	202.9	215.3	229.7	232.1
47.5°	3247.8	2195.3	405.2	288.3	234.1	200.4	190.9	194.2	209.8	229.1	232.1
50°	3634.2	2413.2	447.0	307.8	247.8	201.6	187.9	189.8	206.0	227.3	230.3
52.5°	4090.4	2722.2	492.5	326.4	262.2	209.8	190.4	186.1	201.0	219.7	223.4
55°	4597.9	3118.6	539.3	343.3	269.7	219.7	195.3	181.1	191.6	207.3	210.4
57.5°	5221.0	3672.9	620.5	359.6	274.7	226.6	200.4	176.0	179.7	190.9	193.5
60°	6064.2	4456.9	763.4	386.3	285.9	229.1	199.7	171.6	167.9	174.2	175.4
62.5°	7074.9	5308.4	882.6	420.1	304.7	231.0	196.0	168.6	157.9	157.9	159.2
65°	7674.7	5536.1	816.5	448.2	320.2	229.1	191.6	165.4	150.4	143.5	144.2
67.5°	7166.0	4868.9	699.7	453.8	319.6	220.3	184.7	159.8	142.9	132.3	131.6
69°	6528.7	4201.0	647.4	438.7	304.7	209.1	176.0	153.5	137.3	126.0	125.4
70°	6014.9	3793.4	613.0	422.7	288.3	201.0	169.2	147.9	133.0	122.4	121.1
72.5°	4373.2	2485.6	523.7	363.3	237.8	168.6	146.1	129.8	118.6	112.3	111.1
75°	2185.4	1185.4	425.1	294.7	182.3	134.8	119.8	108.6	103.0	101.7	101.2
77.5°	717.9	543.0	304.0	219.7	135.5	105.6	96.8	88.6	87.4	91.1	89.9
80°	394.5	315.9	192.9	145.5	92.5	77.3	76.2	71.8	73.6	79.9	78.6
82.5°	201.0	164.2	119.2	87.4	62.4	55.5	60.5	58.0	60.5	66.2	65.5
85°	99.2	89.9	75.5	53.1	41.2	35.6	43.0	44.9	46.2	50.6	50.6
87.5°	57.5	53.1	40.0	25.0	20.6	18.7	25.0	24.4	28.7	31.2	30.6
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)