

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: P191980

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191980
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-SL3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 13361 lumens
Efficiency: N/A
Efficacy: 103.6 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

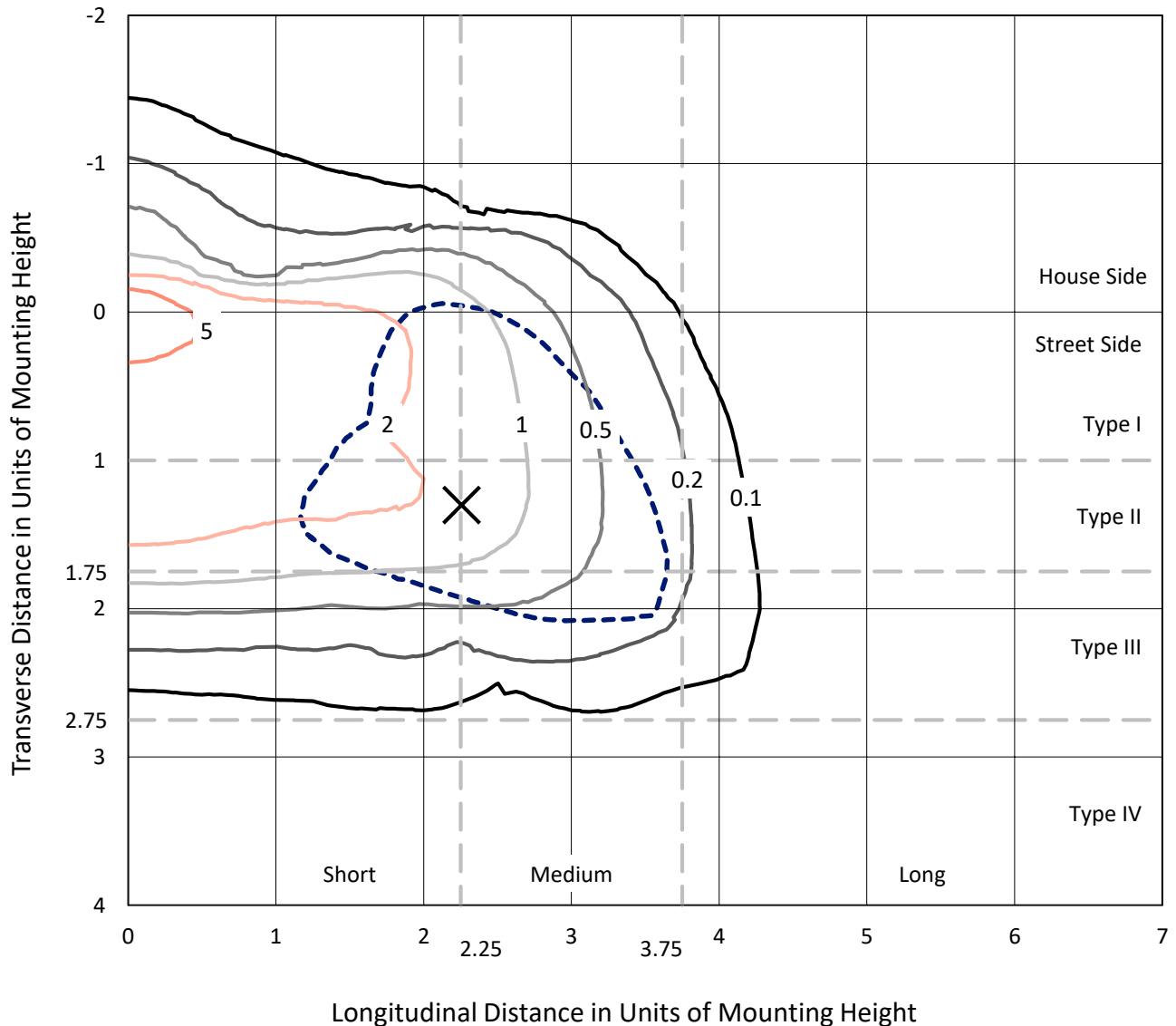


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

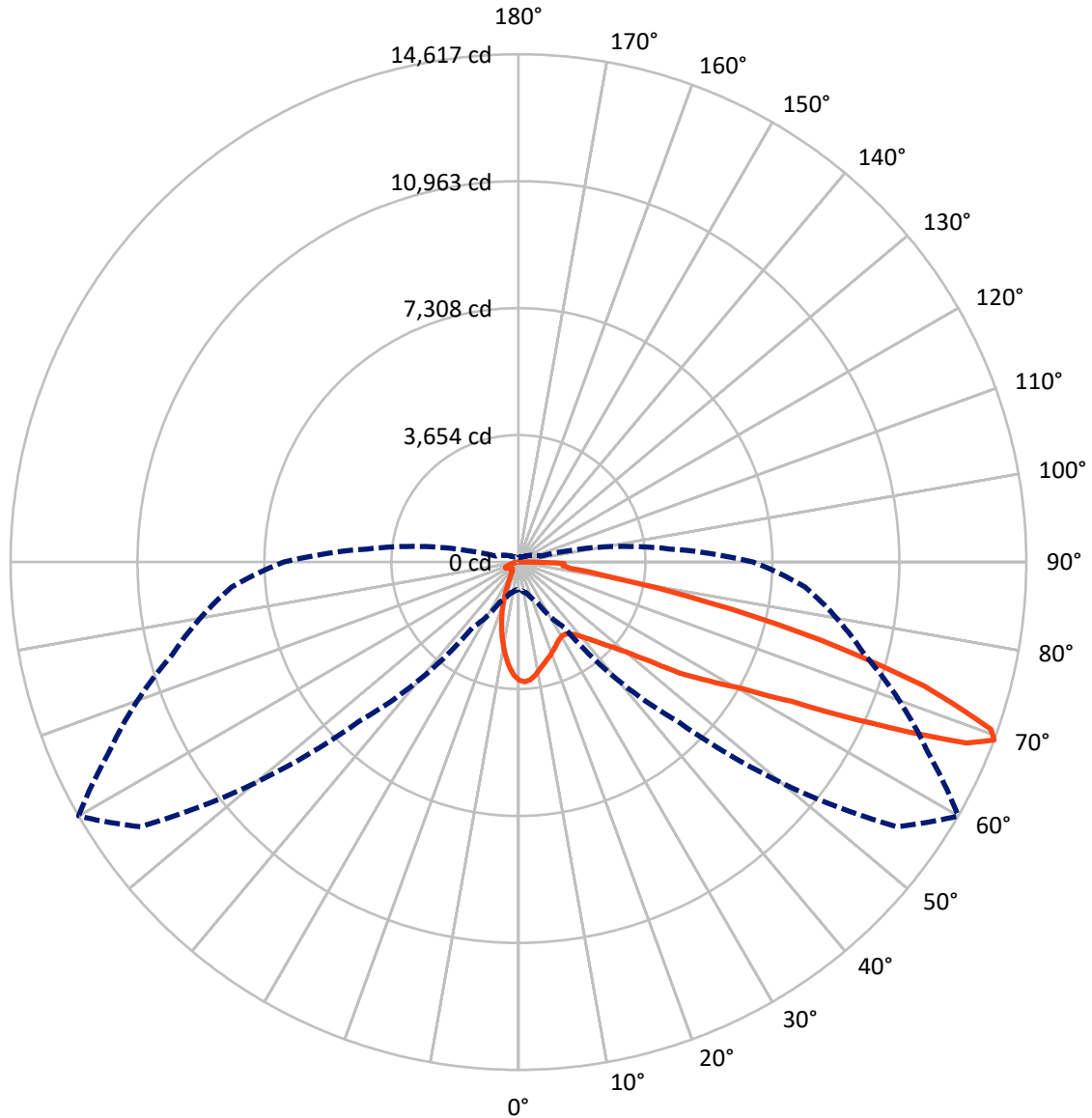


Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1900.8	0.0	1900.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11460.1	0.0	11460.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	13361.0	0.0	13361.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	2.2
10°-20°	613.3	4.6
20°-30°	781.5	5.8
30°-40°	1074.3	8.0
40°-50°	1743.2	13.0
50°-60°	2795.7	20.9
60°-70°	3720.9	27.8
70°-80°	2009.0	15.0
80°-90°	335.2	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°	13361.0	100.0
0°-180°	13361.0	100.0

Coefficient of Utilization



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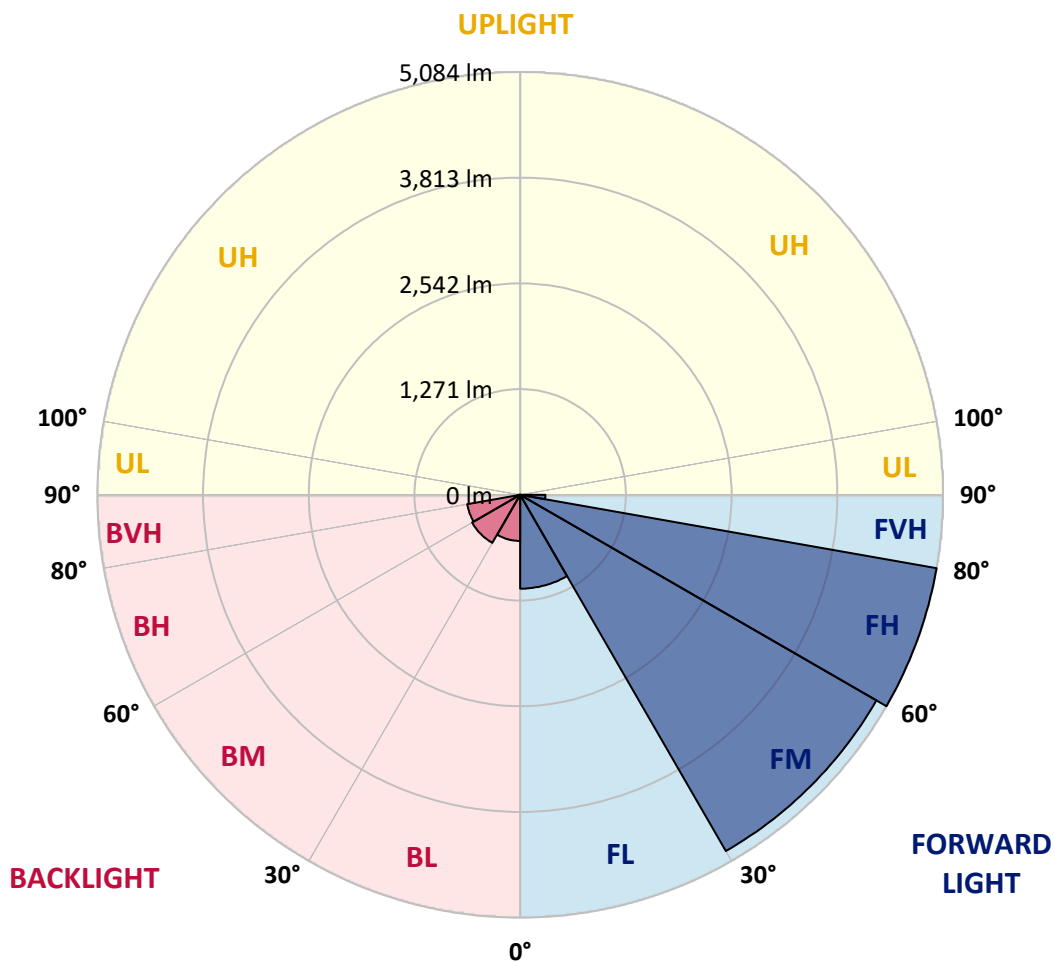
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1128.2	8.4			
FM	(30°-60°)	4945.5	37.0			
FH	(60°-80°)	5083.6	38.0			G3/7500
FVH	(80°-90°)	302.9	2.3			G3/500
BL	(0°-30°)	554.5	4.2	B2/1000		
BM	(30°-60°)	667.8	5.0	B1/1000		
BH	(60°-80°)	646.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	32.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6
2.5°	3474.3	3482.0	3478.8	3476.9	3482.7	3473.6	3454.9	3449.1	3440.1	3418.8	3382.6
5°	3343.9	3367.2	3365.9	3383.3	3412.3	3420.1	3411.7	3413.0	3396.2	3369.7	3309.7
7.5°	3118.7	3128.3	3133.5	3171.6	3224.5	3267.1	3303.3	3314.9	3307.1	3284.5	3207.1
10°	2886.3	2894.1	2906.3	2950.9	3018.0	3076.7	3145.1	3184.5	3201.3	3197.4	3110.9
12.5°	2686.9	2694.6	2710.8	2761.1	2841.1	2913.4	3012.8	3061.9	3101.9	3125.8	3032.8
15°	2508.1	2524.9	2540.4	2598.5	2688.2	2783.0	2895.4	2957.3	3019.3	3072.8	2963.8
17.5°	2368.7	2385.5	2394.5	2447.4	2543.0	2659.1	2790.8	2863.7	2941.2	3029.0	2895.4
20°	2288.0	2295.8	2291.9	2321.6	2407.4	2530.7	2686.9	2771.4	2865.0	2987.6	2826.9
22.5°	2265.4	2266.1	2251.9	2248.6	2304.1	2408.1	2575.9	2678.5	2793.4	2960.5	2768.2
25°	2320.3	2318.3	2279.6	2248.0	2253.8	2314.5	2468.7	2588.1	2733.3	2954.7	2723.0
27.5°	2442.3	2448.1	2390.6	2331.3	2272.5	2270.6	2387.4	2513.3	2684.3	2981.2	2703.7
30°	2613.3	2623.0	2561.7	2486.2	2375.8	2284.8	2355.8	2468.7	2654.0	3036.1	2700.4
32.5°	2800.5	2810.8	2764.3	2684.9	2540.4	2372.6	2377.7	2472.6	2652.7	3112.9	2722.4
35°	2999.9	3011.5	2987.6	2920.5	2759.8	2534.6	2461.6	2535.2	2694.6	3230.3	2781.1
37.5°	3222.6	3240.6	3247.1	3183.2	3011.5	2748.2	2599.1	2654.0	2789.5	3393.6	2888.9
40°	3543.4	3568.5	3566.6	3474.9	3300.0	3036.7	2811.4	2825.6	2937.3	3611.8	3061.2
42.5°	4157.8	4163.0	4002.2	3802.8	3617.6	3340.0	3061.9	3050.3	3141.3	3888.0	3314.9
45°	4939.4	4918.1	4560.5	4175.2	3949.3	3688.6	3387.8	3331.0	3400.1	4224.9	3632.4
47.5°	5588.0	5539.0	5087.2	4555.4	4300.4	4067.4	3770.5	3671.1	3709.2	4607.0	4042.9
50°	5813.3	5776.5	5402.2	4871.6	4632.8	4529.6	4241.7	4101.0	4111.3	5062.7	4523.7
52.5°	5764.9	5759.7	5509.9	5080.1	4943.9	5014.9	4909.1	4718.7	4618.0	5568.7	5042.7
55°	5650.6	5661.6	5571.3	5322.8	5299.5	5483.5	5781.0	5640.3	5327.3	6079.2	5579.0
57.5°	5253.7	5282.1	5480.9	5628.1	5872.0	6145.7	6483.2	6443.2	6090.8	6631.0	6216.7
60°	4232.7	4298.5	4831.6	5568.7	6461.3	7317.1	7468.1	7375.2	6878.2	7315.8	7058.9
62.5°	2965.7	3034.1	3667.9	4821.3	6364.5	8640.2	9228.8	8828.0	8009.0	8324.6	8149.1
65°	1587.7	1620.6	2104.7	3345.2	5373.1	8913.2	11802.1	11192.2	9799.4	9568.3	9081.7
67.5°	875.8	893.9	1079.1	1689.1	3441.4	7848.9	13441.5	13902.3	12037.1	10396.4	8911.9
69°	791.9	808.7	930.0	1279.2	2302.9	6489.7	13281.4	14616.8	13018.1	10314.4	8284.6
70°	774.5	790.0	899.1	1179.2	1864.0	5349.2	12745.1	14434.2	13251.7	10020.8	7737.3
72.5°	697.1	713.8	819.7	1059.1	1592.9	2666.9	10095.6	12204.2	12031.3	8688.6	5868.8
75°	649.9	665.4	844.9	1037.2	1525.1	1687.8	6655.6	8994.6	8844.2	6077.9	3164.5
77.5°	278.2	276.9	391.8	877.8	1547.7	1634.2	3576.3	5619.0	5126.6	2597.8	908.8
80°	185.9	182.7	185.9	258.2	1419.3	1643.2	1873.7	2852.1	2154.4	662.2	447.9
82.5°	160.1	157.5	163.3	157.5	498.9	1875.6	1592.9	1516.7	1024.3	376.3	222.0
85°	107.8	103.3	140.7	141.3	235.6	1666.5	1794.3	1281.2	828.7	223.3	109.7
87.5°	51.6	50.3	82.0	100.0	138.1	677.0	2013.1	1312.8	835.8	114.2	52.3
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°	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6	3404.6
2.5°	3371.7	3345.2	3319.4	3288.4	3256.1	3220.0	3201.9	3183.9	3179.3	3174.2	3156.1
5°	3278.7	3241.3	3176.8	3105.8	3030.9	2958.0	2902.4	2867.6	2841.1	2827.6	2803.7
7.5°	3158.7	3103.8	2990.9	2868.2	2742.4	2627.5	2528.1	2465.5	2406.1	2378.4	2346.7
10°	3044.4	2962.5	2786.9	2606.2	2425.5	2251.9	2088.6	1973.0	1870.4	1813.0	1772.3
12.5°	2946.3	2834.0	2590.7	2346.1	2098.3	1851.1	1606.4	1414.1	1253.4	1168.9	1125.6
15°	2850.8	2715.3	2404.2	2093.7	1775.5	1439.3	1117.9	899.7	766.8	713.8	695.8
17.5°	2764.3	2590.7	2217.0	1839.4	1442.5	1035.9	751.3	631.2	580.2	562.8	557.0
20°	2670.7	2464.9	2022.7	1573.5	1095.3	724.2	586.7	533.8	513.1	507.9	505.4
22.5°	2580.4	2340.9	1836.9	1288.9	786.8	558.9	504.1	482.1	478.9	483.4	483.4
25°	2503.6	2229.9	1636.1	991.4	577.7	470.5	451.1	446.0	458.2	475.0	478.3
27.5°	2446.1	2138.9	1422.5	731.9	460.2	409.2	408.6	416.9	447.3	479.5	486.0
30°	2406.8	2052.4	1194.0	528.0	386.0	360.1	370.5	388.5	433.1	478.9	491.2
32.5°	2386.8	1988.5	955.9	408.6	330.5	316.3	333.7	355.6	399.5	442.1	458.2
35°	2402.2	1941.4	731.3	340.8	291.7	280.8	298.8	320.1	345.9	364.0	376.3
37.5°	2460.3	1922.7	551.8	305.3	265.3	254.9	269.1	281.4	291.7	296.9	302.7
40°	2585.5	1942.7	442.1	287.2	250.4	237.5	243.3	247.8	254.3	259.5	262.0
42.5°	2770.1	2002.7	396.3	280.1	242.7	224.0	222.7	224.6	233.0	242.7	244.6
45°	3028.3	2108.6	393.1	284.6	238.8	213.0	207.2	209.8	222.7	237.5	240.1
47.5°	3358.1	2269.9	418.9	298.2	242.0	207.2	197.5	200.7	216.9	236.9	240.1
50°	3757.6	2495.2	462.1	318.2	256.2	208.5	194.3	196.2	213.0	234.9	238.2
52.5°	4229.4	2814.7	509.2	337.6	271.1	216.9	196.9	192.3	207.8	227.2	231.1
55°	4754.2	3224.5	557.6	355.0	278.8	227.2	202.0	187.2	198.1	214.3	217.5
57.5°	5398.3	3797.6	641.5	371.8	284.0	234.3	207.2	182.0	185.9	197.5	200.1
60°	6270.2	4608.3	789.3	399.5	295.6	236.9	206.5	177.5	173.6	180.1	181.4
62.5°	7315.2	5488.6	912.6	434.4	315.0	238.8	202.7	174.3	163.3	163.3	164.6
65°	7935.4	5724.2	844.2	463.4	331.1	236.9	198.1	171.0	155.5	148.4	149.1
67.5°	7409.4	5034.3	723.5	469.2	330.5	227.8	191.0	165.2	147.8	136.8	136.2
69°	6750.4	4343.7	669.3	453.7	315.0	216.2	182.0	158.8	142.0	130.4	129.7
70°	6219.3	3922.2	633.8	436.9	298.2	207.8	174.9	153.0	137.5	126.5	125.2
72.5°	4521.8	2570.1	541.5	375.6	245.9	174.3	151.0	134.2	122.6	116.2	114.9
75°	2259.6	1225.7	439.5	304.6	188.5	139.4	123.9	112.3	106.5	105.2	104.6
77.5°	742.2	561.5	314.3	227.2	140.1	109.1	100.0	91.6	90.4	94.2	92.9
80°	407.9	326.6	199.4	150.4	95.5	80.0	78.7	74.2	76.2	82.6	81.3
82.5°	207.8	169.7	123.3	90.4	64.5	57.4	62.6	60.0	62.6	68.4	67.8
85°	102.6	92.9	78.1	54.9	42.6	36.8	44.5	46.5	47.8	52.3	52.3
87.5°	59.4	54.9	41.3	25.8	21.3	19.4	25.8	25.2	29.7	32.3	31.6
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)