

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: P269236

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269236
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-04-LED-E1-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 16856 lumens
Efficiency: N/A
Efficacy: 98.6 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): 171
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

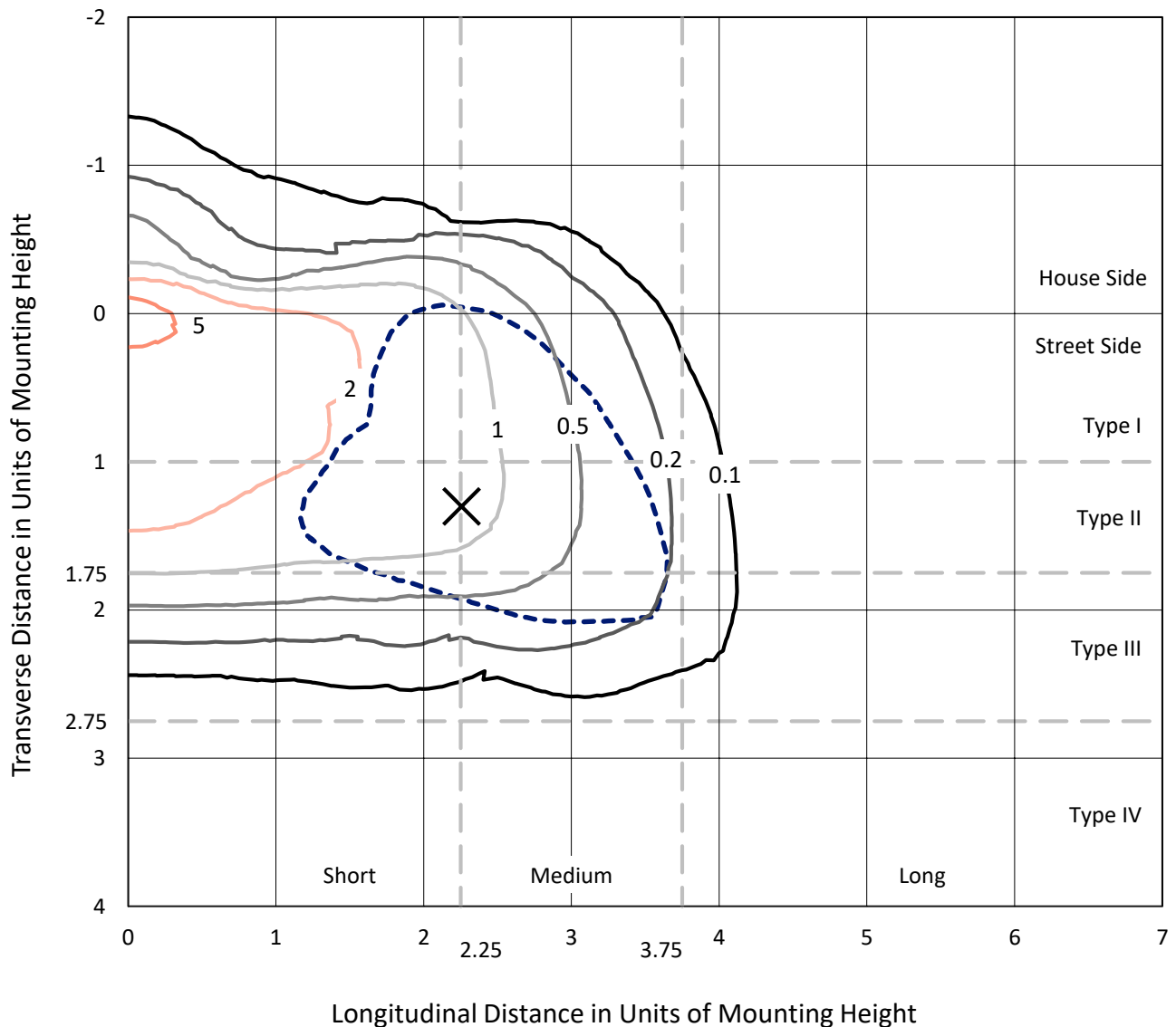


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Iso-Footcandle Lines of Horizontal Illumination

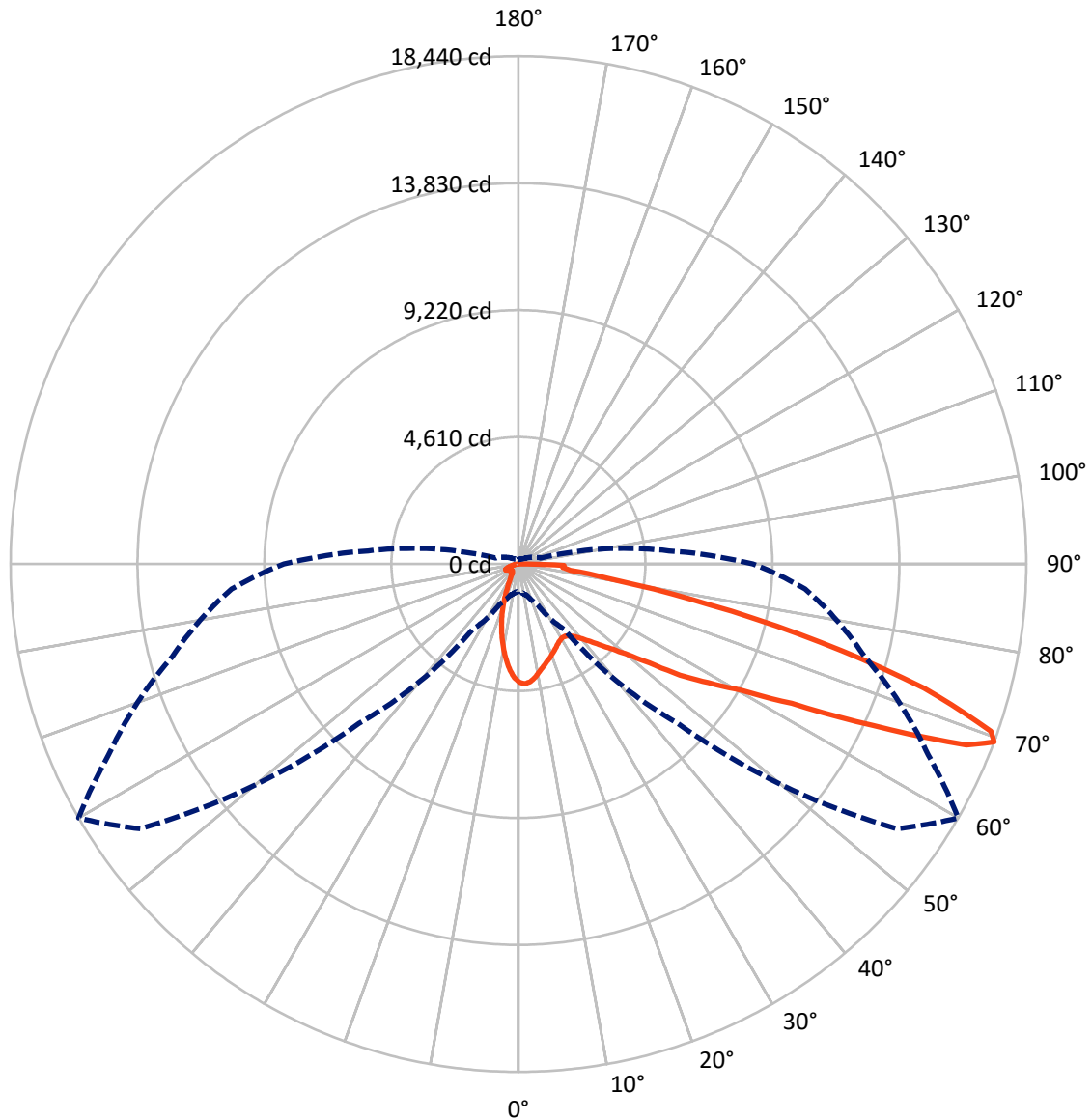
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2398.1	0.0	2398.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14457.9	0.0	14457.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	16856.0	0.0	16856.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.2	2.2
10°-20°	773.8	4.6
20°-30°	985.9	5.8
30°-40°	1355.4	8.0
40°-50°	2199.2	13.0
50°-60°	3527.0	20.9
60°-70°	4694.2	27.8
70°-80°	2534.5	15.0
80°-90°	422.9	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°	16856.0	100.0
0°-180°	16856.0	100.0



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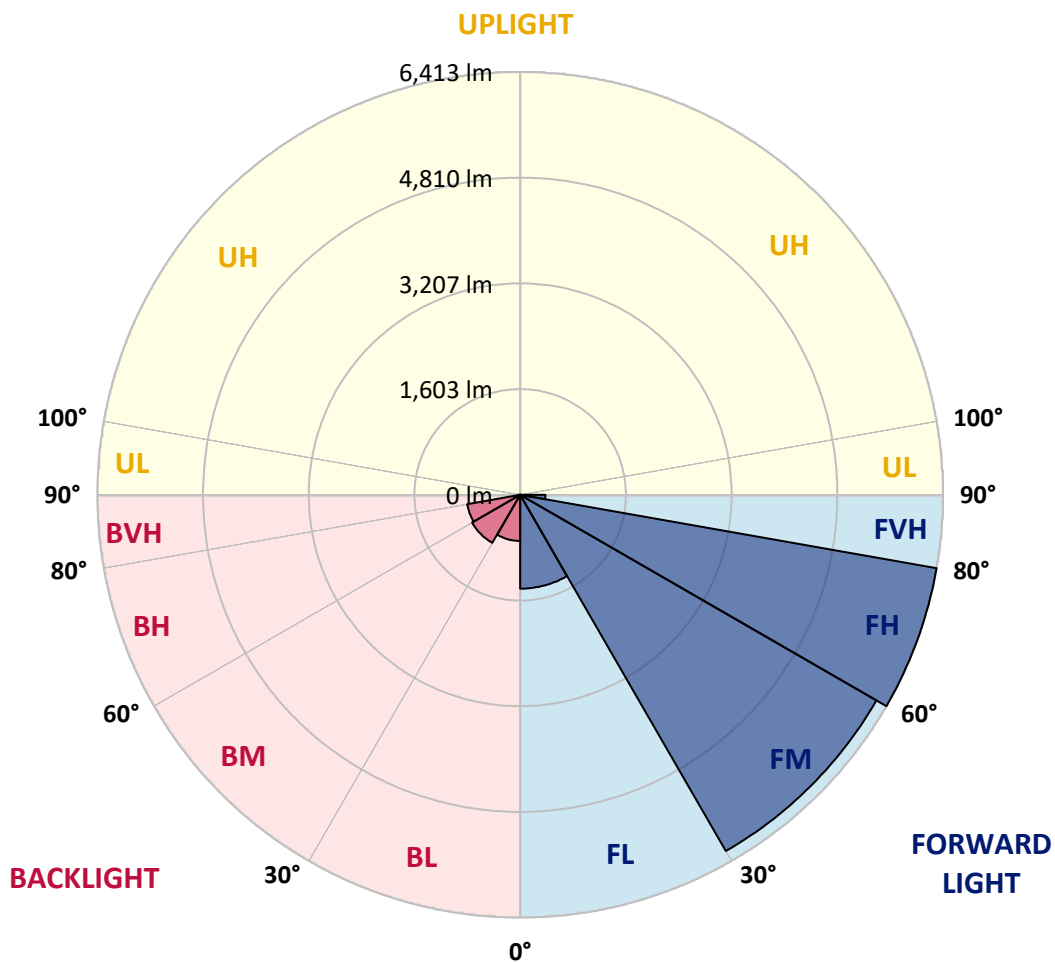
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.3	8.4			
FM (30°-60°)	6239.1	37.0			
FH (60°-80°)	6413.4	38.0			G3/7500
FVH (80°-90°)	382.2	2.3			G3/500
BL (0°-30°)	699.6	4.2	B2/1000		
BM (30°-60°)	842.5	5.0	B1/1000		
BH (60°-80°)	815.3	4.8	B2/1000		G2/1000
BVH (80°-90°)	40.7	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°	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2
2.5°	4383.1	4392.8	4388.8	4386.3	4393.7	4382.3	4358.7	4351.3	4339.9	4313.0	4267.5
5°	4218.6	4247.9	4246.3	4268.2	4304.9	4314.6	4304.0	4305.8	4284.6	4251.1	4175.4
7.5°	3934.4	3946.7	3953.3	4001.2	4068.0	4121.8	4167.2	4182.0	4172.2	4143.7	4046.0
10°	3641.3	3651.2	3666.5	3722.8	3807.5	3881.5	3967.9	4017.5	4038.7	4033.7	3924.6
12.5°	3389.8	3399.5	3419.8	3483.4	3584.2	3675.5	3800.9	3862.8	3913.2	3943.4	3826.2
15°	3164.2	3185.3	3204.9	3278.2	3391.3	3511.0	3652.7	3730.9	3809.1	3876.6	3739.0
17.5°	2988.3	3009.4	3020.9	3087.7	3208.1	3354.7	3520.7	3612.9	3710.4	3821.3	3652.7
20°	2886.6	2896.2	2891.4	2928.8	3037.1	3192.7	3389.8	3496.4	3614.4	3769.2	3566.5
22.5°	2858.0	2858.9	2840.9	2836.8	2906.8	3038.0	3249.7	3379.2	3524.1	3735.0	3492.3
25°	2927.2	2924.8	2876.0	2835.9	2843.3	2919.9	3114.6	3265.1	3448.4	3727.6	3435.3
27.5°	3081.0	3088.5	3016.0	2941.1	2867.0	2864.5	3011.8	3170.7	3386.5	3761.1	3410.9
30°	3296.9	3309.0	3231.7	3136.5	2997.3	2882.4	2972.0	3114.6	3348.3	3830.3	3406.8
32.5°	3533.0	3546.1	3487.4	3387.2	3204.9	2993.2	2999.7	3119.4	3346.5	3927.1	3434.5
35°	3784.6	3799.3	3769.2	3684.5	3481.7	3197.5	3105.5	3198.3	3399.5	4075.3	3508.6
37.5°	4065.5	4088.4	4096.5	4015.9	3799.3	3467.1	3279.0	3348.3	3519.2	4281.3	3644.6
40°	4470.2	4501.9	4499.5	4383.9	4163.3	3831.0	3546.9	3564.7	3705.7	4556.6	3862.0
42.5°	5245.5	5251.9	5049.2	4797.6	4563.8	4213.7	3862.8	3848.1	3963.0	4905.0	4182.0
45°	6231.5	6204.6	5753.5	5267.4	4982.4	4653.4	4274.0	4202.4	4289.4	5330.1	4582.6
47.5°	7049.8	6987.8	6417.9	5746.9	5425.4	5131.4	4756.9	4631.4	4679.5	5812.2	5100.4
50°	7333.9	7287.5	6815.3	6145.9	5844.6	5714.4	5351.3	5173.7	5186.8	6386.9	5707.0
52.5°	7272.9	7266.3	6951.3	6409.0	6237.1	6326.8	6193.2	5953.0	5826.0	7025.4	6361.6
55°	7128.7	7142.6	7028.6	6715.1	6685.7	6917.8	7293.2	7115.7	6720.8	7669.4	7038.4
57.5°	6628.0	6663.7	6914.7	7100.3	7408.1	7753.4	8179.1	8128.7	7684.0	8365.6	7842.8
60°	5339.9	5422.9	6095.4	7025.4	8151.4	9231.2	9421.7	9304.5	8677.4	9229.5	8905.4
62.5°	3741.5	3827.8	4627.3	6082.5	8029.3	10900.4	11642.9	11137.2	10104.0	10502.2	10280.7
65°	2003.0	2044.6	2655.3	4220.2	6778.6	11244.8	14889.3	14119.9	12362.7	12071.2	11457.3
67.5°	1104.9	1127.7	1361.4	2130.9	4341.6	9902.0	16957.6	17538.9	15185.7	13116.0	11243.1
69°	999.0	1020.3	1173.4	1613.8	2905.3	8187.2	16755.5	18440.2	16423.4	13012.5	10451.7
70°	977.0	996.6	1134.2	1487.7	2351.6	6748.4	16078.9	18209.8	16718.1	12641.9	9761.3
72.5°	879.4	900.6	1034.0	1336.1	2009.6	3364.5	12736.4	15396.6	15178.4	10961.4	7403.9
75°	820.0	839.5	1065.8	1308.6	1924.1	2129.3	8396.5	11347.4	11157.7	7667.8	3992.2
77.5°	351.0	349.4	494.2	1107.4	1952.6	2061.7	4511.7	7088.9	6467.5	3277.3	1146.4
80°	234.5	230.4	234.5	325.6	1790.5	2073.1	2363.8	3598.2	2717.9	835.5	565.0
82.5°	201.8	198.6	206.0	198.6	629.4	2366.1	2009.6	1913.5	1292.2	474.8	280.1
85°	136.0	130.3	177.5	178.4	297.2	2102.5	2263.5	1616.3	1045.4	281.7	138.3
87.5°	65.1	63.5	103.5	126.2	174.2	854.2	2539.7	1656.1	1054.4	144.1	65.9
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°	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2	4295.2
2.5°	4253.7	4220.2	4187.7	4148.6	4107.9	4062.2	4039.5	4016.7	4011.0	4004.5	3981.6
5°	4136.3	4089.2	4007.7	3918.1	3823.7	3731.6	3661.8	3617.7	3584.2	3567.2	3537.0
7.5°	3984.9	3915.7	3773.2	3618.6	3459.7	3314.7	3189.4	3110.4	3035.6	3000.5	2960.6
10°	3840.9	3737.4	3516.0	3287.9	3059.9	2840.9	2634.9	2489.2	2359.7	2287.3	2235.9
12.5°	3717.0	3575.3	3268.5	2959.7	2647.1	2335.2	2026.7	1784.0	1581.2	1474.6	1420.0
15°	3596.5	3425.5	3033.0	2641.5	2240.1	1815.7	1410.2	1135.1	967.4	900.6	877.7
17.5°	3487.4	3268.5	2797.0	2320.6	1819.8	1306.9	947.8	796.3	731.9	710.0	702.7
20°	3369.4	3109.7	2551.8	1985.2	1381.8	913.5	740.2	673.4	647.3	640.9	637.5
22.5°	3255.4	2953.3	2317.4	1626.0	992.5	705.1	635.9	608.2	604.2	609.9	609.9
25°	3158.5	2813.2	2064.1	1250.7	728.7	593.6	569.2	562.7	578.1	599.3	603.3
27.5°	3085.9	2698.4	1794.6	923.4	580.6	516.3	515.4	526.0	564.2	605.0	613.2
30°	3036.4	2589.4	1506.4	666.1	486.9	454.4	467.4	490.1	546.3	604.2	619.7
32.5°	3011.1	2508.6	1206.0	515.4	417.0	398.9	420.9	448.7	503.9	557.8	578.1
35°	3030.6	2449.3	922.5	429.8	368.0	354.2	377.0	403.9	436.4	459.3	474.8
37.5°	3104.0	2425.7	696.1	385.2	334.7	321.7	339.5	355.0	368.0	374.6	381.9
40°	3261.8	2450.8	557.8	362.3	315.9	299.7	307.0	312.7	320.9	327.3	330.5
42.5°	3494.8	2526.7	499.9	353.5	306.1	282.5	280.9	283.3	293.9	306.1	308.6
45°	3820.4	2660.2	495.9	359.1	301.3	268.8	261.3	264.6	280.9	299.7	302.9
47.5°	4236.5	2863.6	528.5	376.2	305.3	261.3	249.2	253.2	273.5	298.9	302.9
50°	4740.5	3147.9	583.0	401.5	323.3	263.1	245.1	247.6	268.8	296.4	300.5
52.5°	5335.8	3550.9	642.5	425.8	342.0	273.5	248.3	242.6	262.1	286.6	291.5
55°	5997.8	4068.0	703.6	447.9	351.7	286.6	254.8	236.2	250.0	270.3	274.4
57.5°	6810.4	4791.0	809.4	469.0	358.2	295.5	261.3	229.6	234.5	249.2	252.5
60°	7910.5	5813.7	995.9	503.9	372.9	298.9	260.6	223.9	219.0	227.2	228.8
62.5°	9228.6	6924.3	1151.4	548.0	397.3	301.3	255.7	219.8	206.0	206.0	207.7
65°	10011.3	7221.6	1065.0	584.6	417.7	298.9	250.0	215.8	196.2	187.2	188.0
67.5°	9347.6	6351.1	912.8	592.0	417.0	287.5	241.0	208.4	186.5	172.7	171.8
69°	8516.2	5479.9	844.3	572.4	397.3	272.7	229.6	200.3	179.1	164.5	163.8
70°	7846.1	4948.1	799.6	551.2	376.2	262.1	220.7	193.0	173.5	159.5	157.9
72.5°	5704.6	3242.3	683.2	473.9	310.3	219.8	190.5	169.4	154.7	146.6	144.9
75°	2850.7	1546.3	554.6	384.4	237.7	175.9	156.3	141.8	134.3	132.7	132.0
77.5°	936.5	708.5	396.5	286.6	176.6	137.6	126.2	115.6	113.9	118.8	117.3
80°	514.5	412.1	251.5	189.7	120.6	101.0	99.4	93.7	96.1	104.3	102.5
82.5°	262.1	214.2	155.5	113.9	81.4	72.5	79.1	75.7	79.1	86.2	85.5
85°	129.4	117.3	98.5	69.2	53.8	46.4	56.1	58.6	60.2	65.9	65.9
87.5°	74.9	69.2	52.1	32.6	26.9	24.4	32.6	31.8	37.5	40.8	40.0
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)