

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: P191912

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13516 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - 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

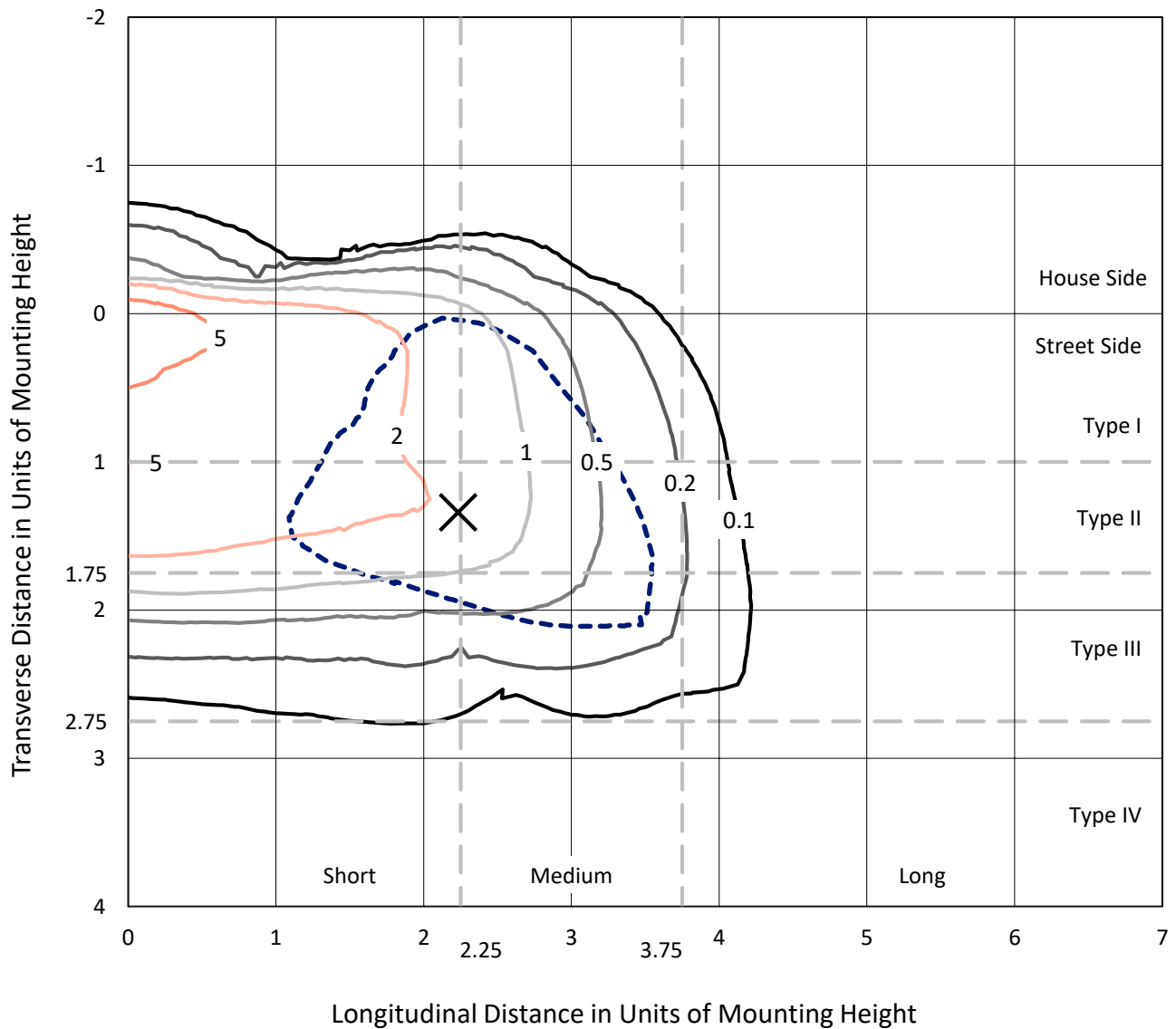


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

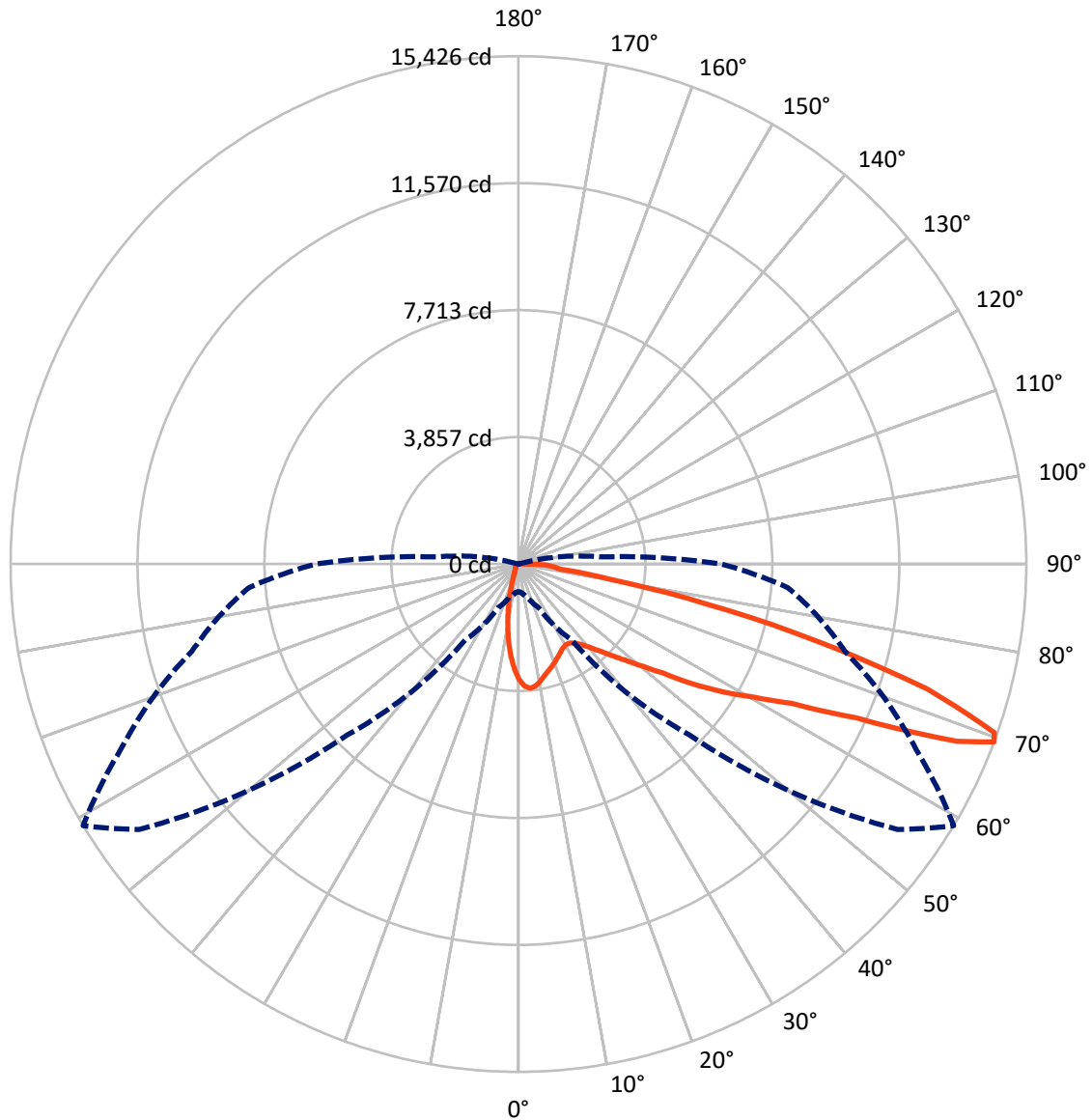


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.7	0.0	1100.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	12415.3	0.0	12415.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	13516.0	0.0	13516.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	2.1
10°-20°	590.0	4.4
20°-30°	794.0	5.9
30°-40°	1152.8	8.5
40°-50°	1919.5	14.2
50°-60°	2994.4	22.2
60°-70°	3705.4	27.4
70°-80°	1877.8	13.9
80°-90°	196.5	1.5
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°	13516.0	100.0
0°-180°	13516.0	100.0



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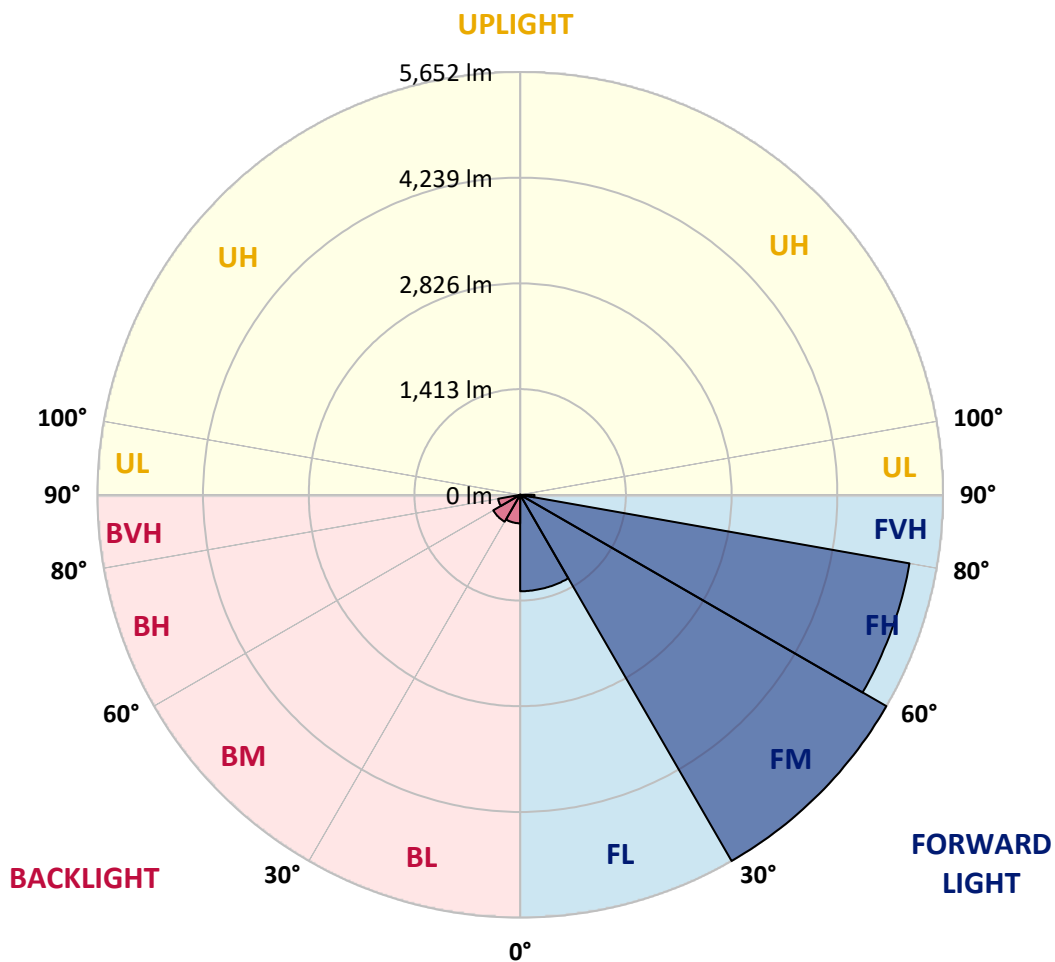
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1288.6	9.5			
FM	(30°-60°)	5652.0	41.8			
FH	(60°-80°)	5284.3	39.1			G3/7500
FVH	(80°-90°)	190.4	1.4			G2/225
BL	(0°-30°)	381.0	2.8	B1/500		
BM	(30°-60°)	414.7	3.1	B1/1000		
BH	(60°-80°)	298.9	2.2	B1/500		G1/500
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0
2.5°	3855.8	3854.3	3837.5	3829.9	3816.1	3787.1	3742.0	3718.3	3680.1	3613.6	3524.1
5°	3820.7	3839.0	3849.0	3849.7	3859.7	3849.0	3808.5	3788.6	3735.9	3628.9	3468.3
7.5°	3582.2	3589.1	3617.4	3641.8	3689.2	3734.3	3748.8	3740.4	3709.1	3594.5	3381.2
10°	3327.0	3333.8	3367.5	3399.6	3463.8	3533.3	3606.7	3622.0	3635.0	3545.5	3297.1
12.5°	3106.8	3113.7	3148.1	3190.1	3265.0	3350.6	3464.5	3489.7	3547.1	3498.9	3229.9
15°	2917.3	2920.4	2954.0	3006.0	3095.4	3205.4	3334.6	3375.1	3463.0	3466.1	3171.0
17.5°	2756.0	2763.7	2784.3	2834.0	2931.8	3067.9	3218.4	3276.5	3379.7	3438.5	3113.7
20°	2657.4	2665.1	2664.3	2691.8	2779.7	2924.9	3102.3	3171.8	3297.1	3410.3	3062.5
22.5°	2638.3	2638.3	2618.5	2614.6	2666.6	2788.1	2981.5	3066.3	3223.0	3398.0	3026.6
25°	2706.4	2703.3	2653.6	2613.1	2615.4	2688.0	2864.6	2965.4	3160.3	3406.4	3007.5
27.5°	2850.0	2846.2	2783.5	2706.4	2644.4	2643.7	2775.9	2884.4	3110.7	3446.2	3015.1
30°	3048.8	3047.2	2979.2	2882.1	2769.8	2666.6	2745.3	2843.9	3078.6	3518.0	3032.7
32.5°	3265.8	3263.5	3212.3	3109.9	2967.7	2769.8	2777.4	2860.0	3087.7	3613.6	3075.5
35°	3495.9	3492.0	3469.9	3380.5	3223.8	2960.1	2882.9	2947.1	3145.8	3756.5	3159.6
37.5°	3745.0	3748.8	3764.9	3679.3	3515.0	3226.8	3059.5	3103.0	3262.8	3950.6	3296.4
40°	4112.6	4111.9	4117.2	4004.9	3846.7	3553.2	3306.3	3320.1	3458.4	4208.2	3504.3
42.5°	4779.9	4733.2	4591.9	4362.6	4203.6	3926.2	3617.4	3602.9	3697.6	4526.9	3795.5
45°	5676.4	5577.0	5210.2	4770.7	4567.4	4346.5	4000.3	3953.7	4014.1	4909.8	4154.7
47.5°	6447.6	6344.4	5825.4	5195.6	4953.4	4745.5	4448.9	4364.9	4384.7	5338.6	4610.2
50°	6709.7	6659.3	6206.0	5565.6	5327.1	5247.6	4969.4	4867.0	4838.7	5834.6	5138.3
52.5°	6618.8	6614.9	6313.0	5805.5	5669.5	5767.3	5624.4	5505.9	5402.0	6357.4	5675.6
55°	6472.8	6491.9	6356.6	6015.7	6011.1	6242.0	6520.2	6421.6	6120.4	6925.2	6138.8
57.5°	6070.0	6151.8	6332.1	6413.2	6601.2	6837.3	7266.1	7324.2	6968.0	7360.1	6523.2
60°	4925.1	5104.7	5694.7	6470.5	7361.6	7950.1	8166.4	8216.1	7663.5	7721.6	7042.2
62.5°	3495.9	3679.3	4427.5	5739.8	7373.1	9412.2	9507.8	9312.9	8429.4	8257.4	7937.2
65°	1855.7	1997.1	2608.5	4143.2	6392.5	9751.6	11853.4	11272.5	9780.6	9311.3	9093.5
67.5°	949.2	992.0	1235.1	2027.7	4394.7	8661.7	13955.9	14364.8	12109.4	10356.9	9037.7
69°	840.0	865.2	1026.4	1465.9	2814.1	7336.4	14058.4	15426.4	13328.5	10269.8	8213.1
70°	813.2	835.4	982.1	1326.8	2199.6	6152.5	13666.3	15333.2	13640.3	9938.1	7597.0
72.5°	690.2	709.3	874.3	1172.4	1787.7	3054.1	11101.3	12992.9	12240.1	8278.8	5499.1
75°	461.6	524.3	839.2	1099.0	1663.1	1734.9	7318.8	9389.3	8722.1	5583.9	2864.6
77.5°	110.8	119.2	236.9	874.3	1520.9	1527.1	3764.1	5836.9	4760.8	1990.2	677.2
80°	59.6	57.3	66.5	173.5	1416.2	1433.0	1694.4	2833.2	1699.8	330.2	223.2
82.5°	42.0	39.7	42.8	72.6	445.6	1305.4	1225.9	1282.5	704.7	126.9	100.1
85°	15.3	14.5	23.7	65.7	139.9	750.5	1259.6	1057.8	570.9	58.1	73.4
87.5°	5.4	4.6	9.2	35.9	42.8	319.5	777.3	799.4	224.7	35.2	34.4
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°	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0	3518.0
2.5°	3486.7	3439.3	3352.2	3262.8	3180.2	3080.9	3031.2	2982.3	2961.6	2954.0	2918.1
5°	3385.8	3305.6	3120.6	2934.9	2763.7	2581.8	2461.8	2365.5	2308.9	2281.4	2237.8
7.5°	3256.6	3125.2	2844.7	2558.1	2291.3	2028.4	1833.5	1683.7	1580.6	1530.9	1485.8
10°	3131.3	2956.3	2557.3	2166.8	1804.5	1456.0	1186.9	992.0	867.5	810.1	773.5
12.5°	3018.9	2792.0	2279.9	1785.4	1330.6	922.5	648.9	493.7	416.5	389.8	376.8
15°	2918.8	2640.6	2017.7	1423.1	901.1	527.4	354.6	301.9	289.7	289.7	288.1
17.5°	2824.1	2492.4	1764.7	1083.0	565.6	322.5	269.8	262.9	262.9	266.0	266.0
20°	2733.1	2351.0	1520.2	777.3	356.2	256.0	243.8	242.3	243.8	247.6	247.6
22.5°	2655.1	2222.6	1291.7	533.5	264.4	230.8	224.7	222.4	223.2	225.5	227.0
25°	2597.1	2114.0	1076.1	361.5	227.8	210.2	203.3	199.5	196.4	196.4	198.0
27.5°	2560.4	2022.3	867.5	262.9	204.8	191.1	180.4	174.3	167.4	163.6	165.1
30°	2533.6	1935.2	671.8	214.8	183.4	169.7	155.9	146.0	136.0	131.5	133.0
32.5°	2523.7	1864.9	502.1	189.5	164.3	149.0	132.2	119.2	108.5	104.7	105.5
35°	2550.4	1809.1	367.6	171.2	149.0	129.9	110.8	96.3	87.9	85.6	86.4
37.5°	2620.8	1779.3	275.1	155.9	135.3	113.9	92.5	78.7	73.4	73.4	74.1
40°	2753.7	1778.5	220.9	145.2	123.1	98.6	76.4	66.5	63.4	65.0	65.7
42.5°	2947.9	1819.0	192.6	135.3	112.4	84.1	63.4	56.6	55.8	57.3	58.1
45°	3213.1	1893.1	177.3	126.9	100.9	70.3	53.5	48.9	48.9	51.2	52.0
47.5°	3537.9	2001.7	164.3	118.5	89.4	58.9	45.9	42.8	43.6	45.9	46.6
50°	3929.2	2138.5	151.3	109.3	81.0	48.9	39.7	37.5	38.2	41.3	42.0
52.5°	4374.8	2322.7	140.6	100.9	70.3	40.5	33.6	32.1	33.6	36.7	37.5
55°	4756.9	2487.8	127.6	94.0	56.6	33.6	27.5	27.5	29.0	32.9	33.6
57.5°	5124.6	2660.5	116.2	81.0	44.3	26.8	22.9	23.7	26.0	29.8	30.6
60°	5664.2	2953.2	102.4	68.0	33.6	21.4	19.1	19.9	22.9	26.8	27.5
62.5°	6580.5	3398.8	88.7	56.6	26.0	16.8	15.3	16.8	20.6	25.2	26.0
65°	7407.5	3579.9	72.6	47.4	19.9	13.0	13.0	15.3	19.9	24.5	25.2
67.5°	6946.6	3013.6	56.6	37.5	15.3	9.9	10.7	14.5	19.1	24.5	25.2
69°	6143.4	2464.1	48.2	29.8	13.0	9.2	9.9	14.5	19.1	23.7	24.5
70°	5517.4	2080.4	42.8	25.2	11.5	9.2	9.9	13.8	19.1	23.7	24.5
72.5°	3695.3	1123.5	34.4	18.3	10.7	8.4	8.4	13.8	18.3	22.9	23.7
75°	1588.2	310.3	27.5	13.0	9.2	7.6	7.6	13.0	17.6	22.2	23.7
77.5°	290.4	78.7	22.2	11.5	9.2	7.6	6.9	12.2	16.8	21.4	22.2
80°	115.4	39.0	17.6	9.9	8.4	6.9	6.1	11.5	16.1	20.6	21.4
82.5°	69.6	22.2	14.5	9.2	8.4	6.1	5.4	9.9	15.3	19.9	20.6
85°	56.6	15.3	11.5	9.2	7.6	6.1	4.6	9.2	13.8	19.1	19.9
87.5°	27.5	10.7	10.7	8.4	7.6	6.1	4.6	8.4	13.0	18.3	19.1
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)