

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: P191042

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16436.8 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 171
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

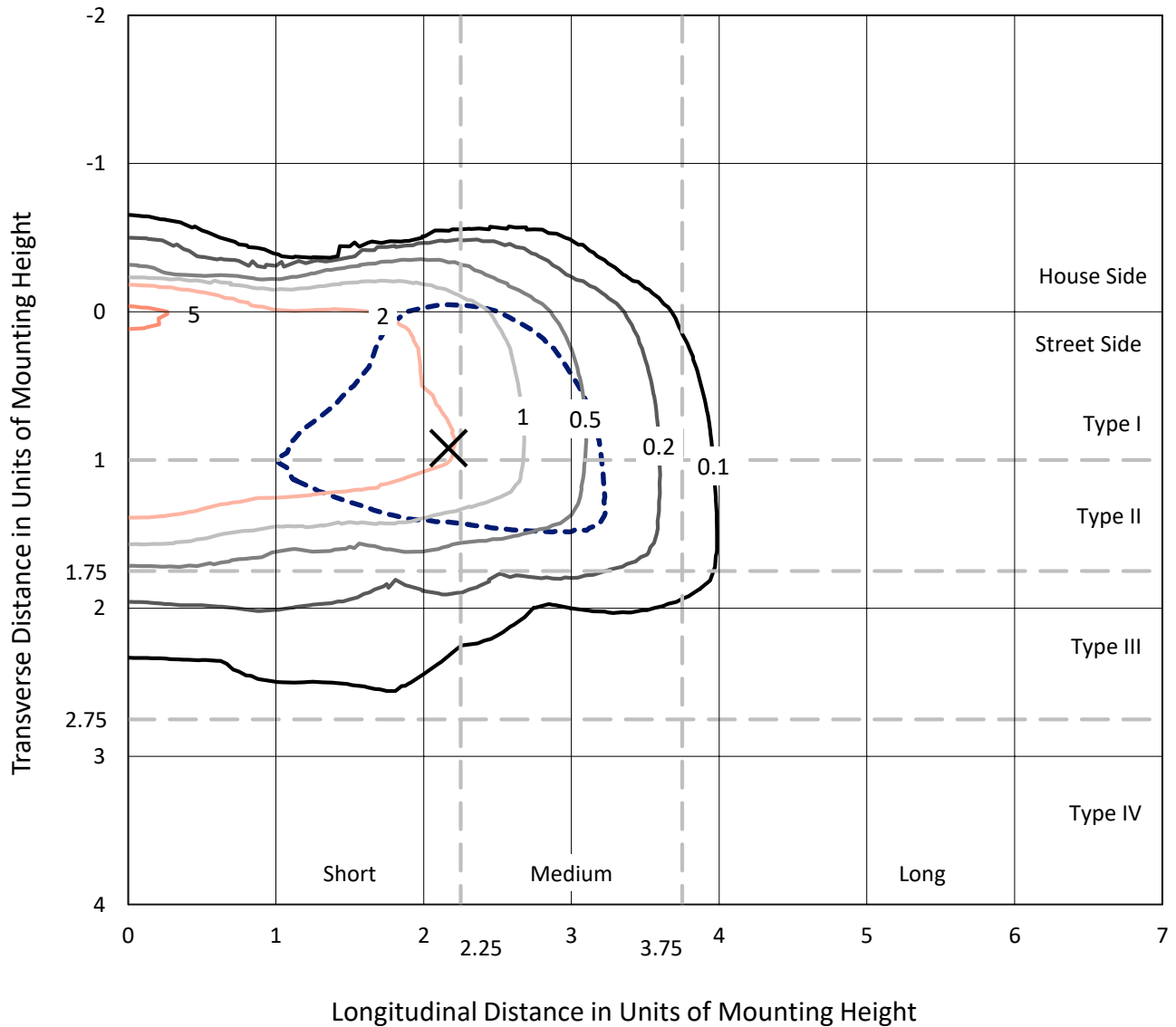


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Iso-Footcandle Lines of Horizontal Illumination

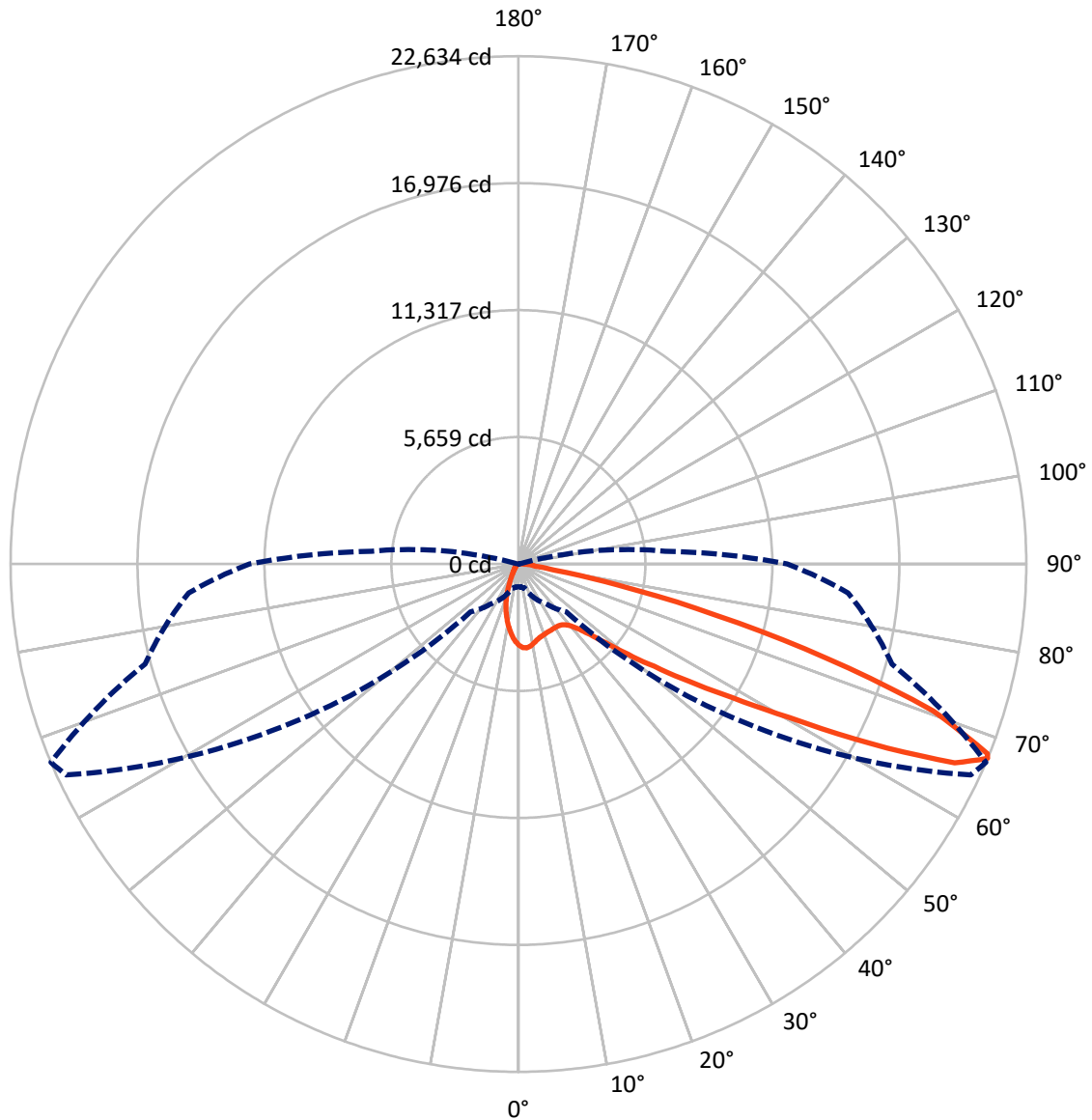
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.6	0.0	1706.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14730.1	0.0	14730.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	16436.8	0.0	16436.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	1.8
10°-20°	627.8	3.8
20°-30°	912.7	5.6
30°-40°	1423.9	8.7
40°-50°	2522.3	15.3
50°-60°	3991.4	24.3
60°-70°	4571.6	27.8
70°-80°	1896.3	11.5
80°-90°	195.9	1.2
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°	16436.8	100.0
0°-180°	16436.8	100.0



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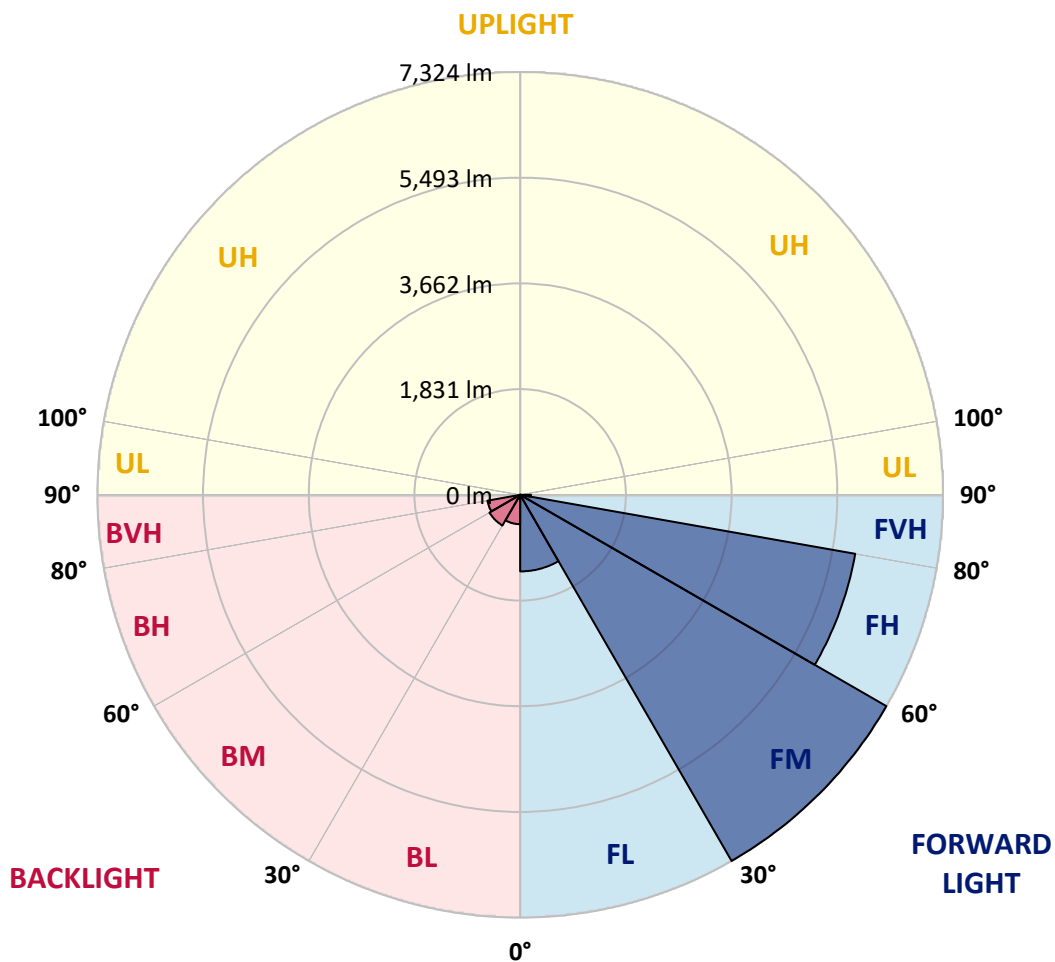
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1326.2	8.1			
FM	(30°-60°)	7324.3	44.6			
FH	(60°-80°)	5892.6	35.9			G3/7500
FVH	(80°-90°)	187.1	1.1			G2/225
BL	(0°-30°)	509.3	3.1	B2/1000		
BM	(30°-60°)	613.3	3.7	B1/1000		
BH	(60°-80°)	575.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	8.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9
2.5°	3747.7	3755.3	3754.3	3760.1	3773.6	3774.5	3761.1	3735.2	3729.4	3695.8	3637.4
5°	3456.1	3478.2	3491.6	3546.3	3607.6	3681.5	3737.0	3757.2	3754.3	3730.4	3642.2
7.5°	3123.5	3145.6	3160.9	3225.2	3306.6	3433.1	3578.0	3696.8	3707.4	3733.3	3638.3
10°	2902.0	2905.9	2927.0	2988.3	3073.7	3203.1	3375.6	3583.7	3615.3	3710.2	3628.7
12.5°	2719.9	2722.8	2750.6	2816.7	2907.8	3038.2	3219.3	3460.0	3508.9	3681.5	3626.9
15°	2590.4	2601.0	2625.9	2695.0	2791.8	2921.2	3107.2	3369.0	3427.4	3671.0	3644.1
17.5°	2547.4	2558.8	2566.5	2616.3	2704.6	2831.1	3021.9	3309.5	3375.6	3676.7	3677.6
20°	2592.4	2601.0	2583.8	2596.2	2650.9	2764.0	2950.0	3258.7	3337.3	3683.4	3720.8
22.5°	2760.1	2764.0	2717.1	2662.3	2652.8	2715.1	2893.4	3218.4	3302.8	3701.6	3771.6
25°	3047.8	3041.0	2964.4	2846.5	2735.3	2706.4	2859.9	3193.4	3285.5	3720.8	3824.3
27.5°	3394.9	3404.4	3298.9	3127.4	2915.5	2764.0	2855.1	3182.9	3277.8	3734.2	3870.3
30°	3816.6	3830.1	3709.3	3493.6	3189.7	2905.9	2899.1	3181.1	3273.0	3725.6	3874.2
32.5°	4247.1	4263.5	4168.5	3946.1	3555.9	3143.6	2998.9	3202.1	3282.6	3695.8	3852.1
35°	4697.7	4720.7	4657.5	4466.7	4052.5	3486.8	3174.3	3266.4	3327.8	3693.0	3830.1
37.5°	5320.0	5341.0	5222.2	5019.8	4653.6	3947.1	3456.1	3387.2	3434.1	3739.0	3835.9
40°	6248.9	6246.0	5939.3	5629.6	5314.1	4531.9	3852.1	3605.7	3629.7	3878.0	3906.8
42.5°	7261.3	7256.5	6803.0	6332.4	6047.6	5251.8	4372.7	3983.5	3967.2	4133.9	4090.9
45°	8041.7	8040.8	7670.7	7140.5	6930.6	6078.3	5045.7	4508.9	4483.9	4550.1	4430.2
47.5°	8374.4	8380.1	8194.1	7821.3	7909.5	7196.2	5894.2	5270.0	5232.7	5205.8	5023.7
50°	8115.6	8127.0	8142.4	8069.5	8627.5	8698.5	7032.2	6342.9	6324.7	6204.8	5920.1
52.5°	7270.0	7328.4	7508.7	7739.7	8876.8	10140.4	8816.4	7675.5	7577.7	7450.3	7136.7
55°	5845.3	5909.6	6251.8	6812.6	8505.7	11087.6	11316.7	9393.6	9230.5	8850.0	8397.4
57.5°	3868.4	3968.1	4464.8	5178.1	7428.2	11240.0	13811.3	11777.8	11210.3	10168.1	9658.1
60°	2131.2	2227.1	2765.9	3412.1	5365.0	10486.5	15489.0	14882.2	13879.4	11641.7	11189.2
62.5°	1312.4	1364.2	1762.1	2363.2	3217.5	8276.6	15836.1	18783.2	17622.2	13539.1	13038.5
65°	1045.0	1067.0	1261.7	1931.8	2306.7	4923.1	14715.4	21757.1	21369.9	15836.1	14694.3
67°	1014.4	1023.0	1115.0	1658.6	2174.4	3018.0	12328.2	22241.3	22634.4	17226.3	14746.0
67.5°	1021.0	1030.6	1117.9	1582.8	2170.5	2773.5	11505.5	22050.5	22547.2	17336.6	14516.9
70°	984.6	1014.4	1279.9	1581.9	2064.1	2304.8	6890.3	19105.3	19622.1	16108.4	12317.7
72.5°	348.9	350.9	553.2	1279.9	2244.4	2329.7	3460.0	14005.9	14388.4	12322.4	8880.6
75°	207.0	176.4	184.0	364.3	2144.6	2262.6	1996.1	8949.6	9092.5	7060.9	4497.3
77.5°	142.8	124.6	128.5	161.1	816.8	2231.0	1585.7	4667.0	4514.6	2476.4	957.8
80°	81.5	71.9	76.7	141.0	297.2	2081.4	1495.6	1892.6	1613.5	419.9	264.6
82.5°	43.2	36.4	44.1	116.0	207.0	1297.1	1498.5	914.6	724.8	141.9	180.2
85°	15.3	12.5	21.1	79.6	138.1	397.8	1389.2	768.8	604.0	69.0	137.1
87.5°	2.9	2.9	8.6	32.6	55.6	121.7	821.6	456.3	305.9	41.2	93.9
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°	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9
2.5°	3613.4	3572.1	3516.6	3448.5	3368.0	3297.1	3244.3	3189.7	3178.1	3159.0	3156.1
5°	3589.4	3518.5	3380.4	3222.3	3053.5	2901.1	2777.4	2667.1	2618.2	2576.1	2571.3
7.5°	3553.9	3447.5	3212.7	2957.7	2694.0	2454.4	2251.1	2107.3	1975.0	1911.7	1902.1
10°	3512.7	3360.3	3023.8	2670.0	2305.7	1967.3	1665.3	1412.2	1258.8	1167.7	1156.2
12.5°	3474.4	3275.0	2831.1	2371.9	1887.8	1435.2	1046.9	805.4	644.3	579.1	571.4
15°	3456.1	3205.9	2650.9	2067.0	1450.5	913.7	572.3	442.9	390.2	374.8	373.9
17.5°	3454.3	3147.5	2474.4	1751.6	1016.2	531.1	373.0	340.3	329.8	326.0	326.0
20°	3453.3	3091.9	2298.1	1424.7	645.2	353.7	310.7	303.0	295.3	290.5	290.5
22.5°	3463.8	3042.1	2113.9	1091.0	406.5	286.6	273.2	265.6	255.9	249.3	248.3
25°	3474.4	3003.7	1926.1	776.5	294.3	249.3	235.9	225.3	211.9	203.3	202.3
27.5°	3476.3	2955.7	1724.7	519.7	246.4	217.6	200.4	184.0	168.7	160.1	159.2
30°	3447.5	2875.2	1501.4	350.9	217.6	188.8	165.8	148.6	134.2	127.5	127.5
32.5°	3391.0	2775.5	1255.9	264.6	193.6	162.0	137.1	120.8	111.2	108.3	107.4
35°	3340.1	2668.2	1003.8	224.3	173.5	137.1	112.2	101.6	95.9	94.9	93.9
37.5°	3310.5	2581.8	767.0	203.3	154.4	115.1	94.9	87.3	84.4	82.4	83.4
40°	3333.5	2509.9	566.6	186.0	135.1	95.9	80.5	76.7	73.9	72.8	72.8
42.5°	3434.1	2497.4	420.8	170.6	116.9	79.6	70.0	67.1	65.2	64.2	65.2
45°	3698.8	2574.2	326.9	156.3	98.7	67.1	59.4	58.5	57.5	57.5	57.5
47.5°	4096.6	2732.3	272.3	139.9	82.4	57.5	51.8	50.8	49.8	50.8	50.8
50°	4770.6	3021.9	243.6	123.7	68.0	48.9	44.1	44.1	44.1	44.1	45.0
52.5°	5795.4	3591.4	224.3	107.4	55.6	41.2	37.4	37.4	38.4	38.4	39.3
55°	6937.2	4346.8	207.0	91.0	47.0	34.5	30.7	31.6	32.6	33.6	33.6
57.5°	8175.9	5183.8	192.7	74.8	40.3	27.8	25.9	26.8	27.8	29.8	29.8
60°	9670.6	6089.8	171.7	58.5	33.6	22.1	20.2	22.1	25.0	26.8	27.8
62.5°	11311.9	6966.1	144.7	46.0	27.8	17.3	16.3	20.2	23.9	25.9	26.8
65°	12433.7	7241.2	111.2	37.4	21.1	12.5	13.4	18.2	23.0	25.9	25.9
67°	11979.2	6565.3	91.0	31.6	17.3	9.6	12.5	18.2	23.0	25.0	25.9
67.5°	11663.8	6300.7	87.3	30.7	16.3	9.6	12.5	18.2	23.0	25.9	25.9
70°	9490.3	4733.2	72.8	23.0	13.4	8.6	10.5	17.3	22.1	25.0	25.0
72.5°	6594.0	2918.4	65.2	16.3	11.5	7.7	9.6	16.3	21.1	23.9	25.0
75°	3135.0	1056.5	55.6	12.5	10.5	6.8	8.6	16.3	21.1	23.9	23.9
77.5°	639.4	245.4	45.0	10.5	8.6	6.8	7.7	15.3	20.2	23.0	23.0
80°	209.9	94.9	33.6	9.6	8.6	6.8	7.7	14.4	20.2	22.1	23.0
82.5°	151.5	48.0	22.1	9.6	8.6	6.8	6.8	14.4	19.1	22.1	22.1
85°	116.0	33.6	14.4	9.6	8.6	6.8	6.8	13.4	18.2	21.1	21.1
87.5°	76.7	13.4	11.5	9.6	8.6	6.8	6.8	13.4	17.3	20.2	21.1
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)