

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: P269387

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269387  
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-06-LED-E1-SL2-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA 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: 16880.5 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 193  
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

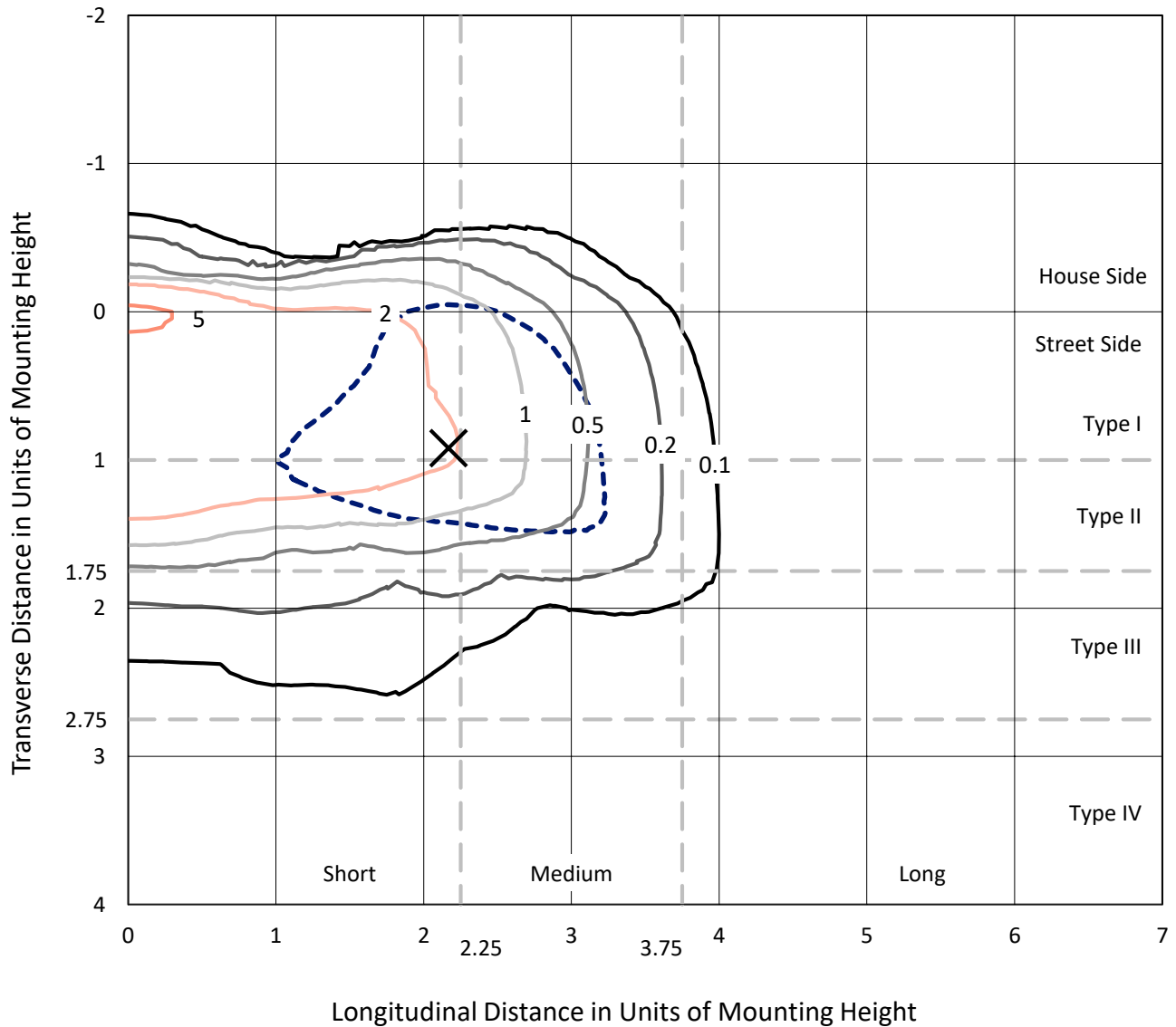


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

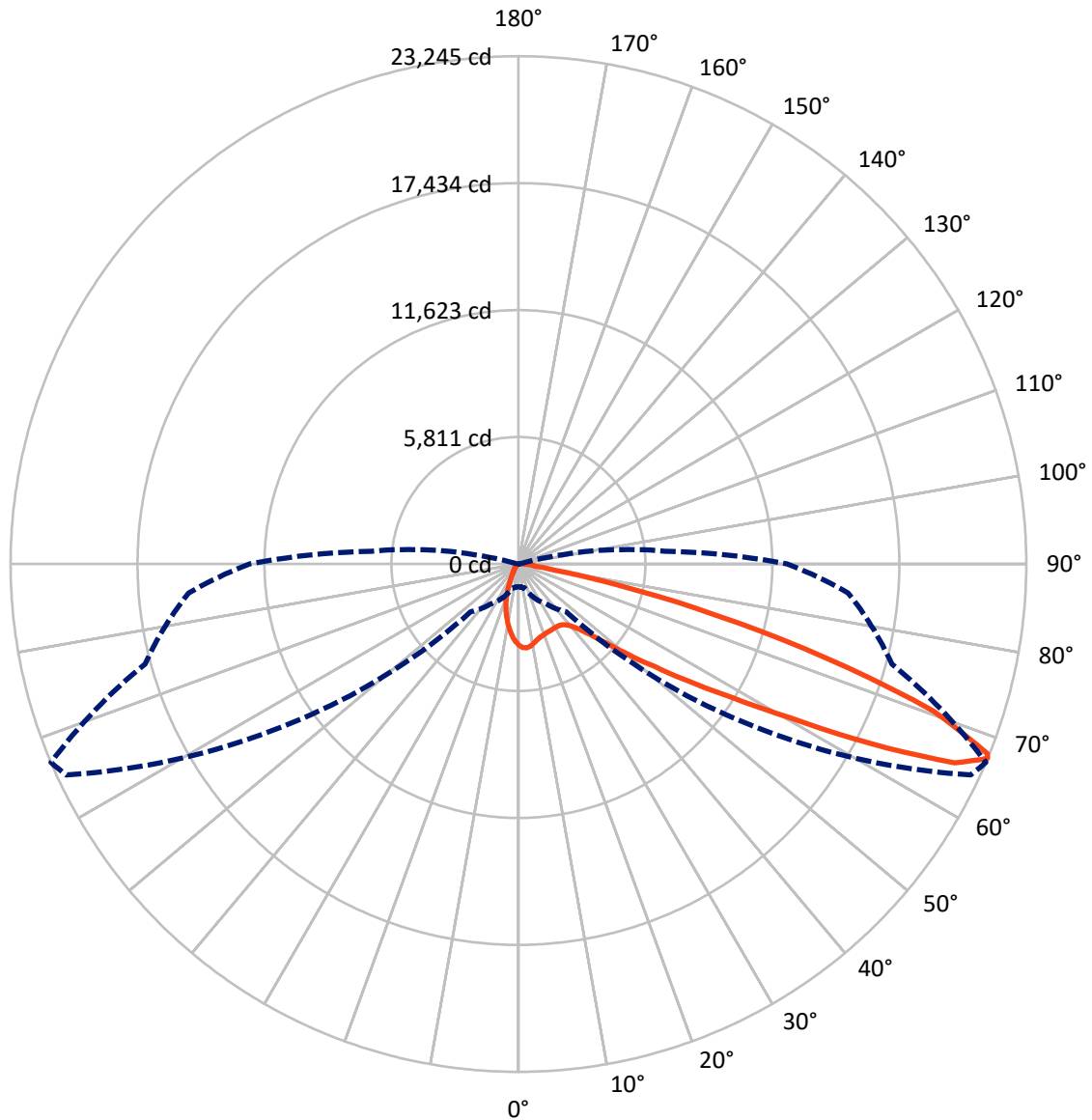


Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	1752.7	0.0	1752.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	15127.8	0.0	15127.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	16880.5	0.0	16880.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.9	1.8
10°-20°	644.7	3.8
20°-30°	937.4	5.6
30°-40°	1462.3	8.7
40°-50°	2590.5	15.3
50°-60°	4099.1	24.3
60°-70°	4695.0	27.8
70°-80°	1947.4	11.5
80°-90°	201.1	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°	16880.5	100.0
0°-180°	16880.5	100.0



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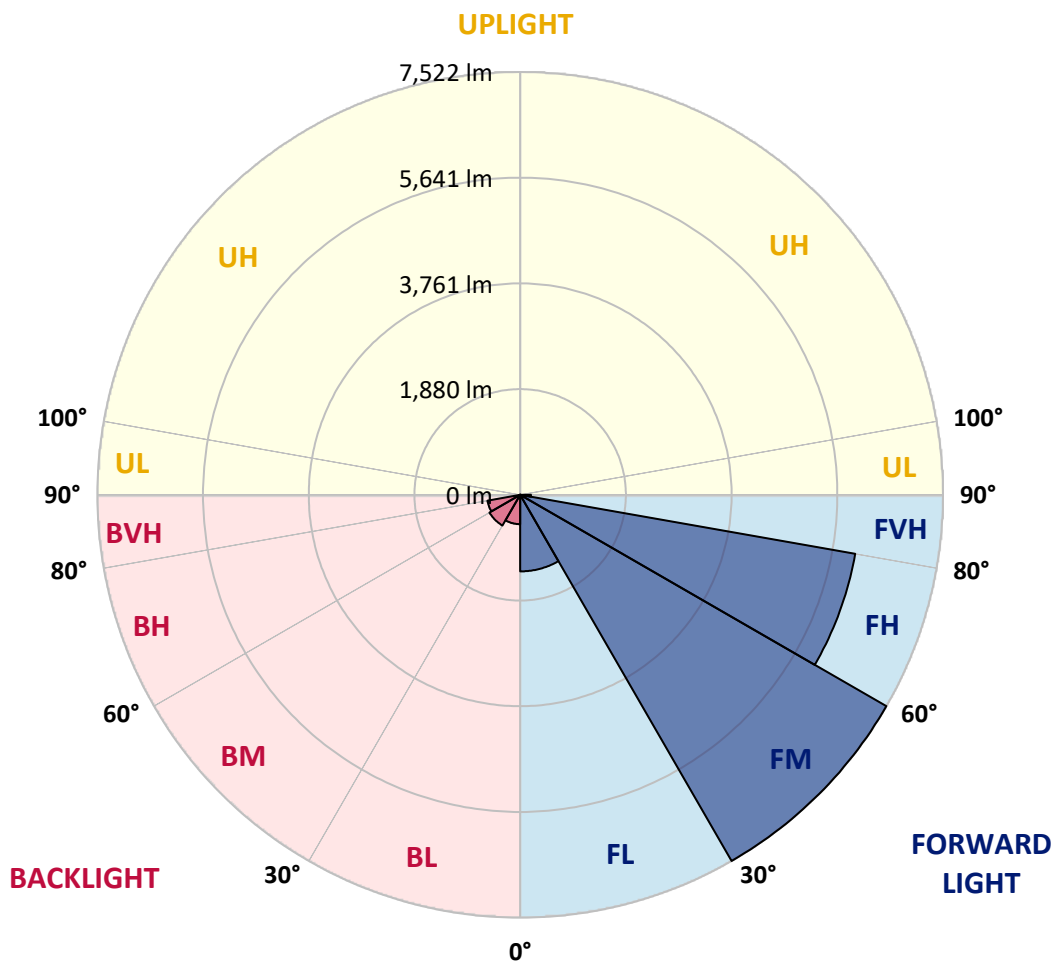
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.0	8.1			
FM (30°-60°)	7522.0	44.6			
FH (60°-80°)	6051.7	35.9			G3/7500
FVH (80°-90°)	192.1	1.1			G2/225
BL (0°-30°)	523.0	3.1	B2/1000		
BM (30°-60°)	629.9	3.7	B1/1000		
BH (60°-80°)	590.7	3.5	B2/1000		G2/1000
BVH (80°-90°)	9.0	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°	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8
2.5°	3848.8	3856.7	3855.6	3861.6	3875.4	3876.4	3862.6	3836.0	3830.2	3795.6	3735.6
5°	3549.6	3572.1	3585.9	3642.1	3705.1	3780.8	3838.0	3858.7	3855.6	3831.1	3740.5
7.5°	3207.8	3230.5	3246.2	3312.2	3396.0	3525.8	3674.5	3796.6	3807.5	3834.1	3736.6
10°	2980.3	2984.3	3006.0	3069.0	3156.6	3289.6	3466.7	3680.4	3713.0	3810.4	3726.7
12.5°	2793.3	2796.2	2824.8	2892.7	2986.2	3120.3	3306.3	3553.4	3603.6	3780.8	3724.7
15°	2660.4	2671.2	2696.8	2767.7	2867.2	3000.1	3191.0	3459.9	3520.0	3770.0	3742.5
17.5°	2616.0	2627.9	2635.7	2687.0	2777.6	2907.5	3103.5	3398.8	3466.7	3775.9	3777.0
20°	2662.3	2671.2	2653.6	2666.3	2722.5	2838.6	3029.7	3346.6	3427.5	3782.9	3821.2
22.5°	2834.6	2838.6	2790.3	2734.3	2724.4	2788.3	2971.6	3305.4	3391.9	3801.5	3873.4
25°	3130.1	3123.1	3044.4	2923.3	2809.1	2779.5	2937.1	3279.7	3374.3	3821.2	3927.6
27.5°	3486.5	3496.4	3388.0	3211.8	2994.2	2838.6	2932.2	3268.8	3366.4	3835.0	3974.8
30°	3919.8	3933.5	3809.4	3587.9	3275.8	2984.3	2977.4	3266.9	3361.4	3826.2	3978.8
32.5°	4361.8	4378.5	4281.1	4052.7	3651.9	3228.5	3079.7	3288.5	3371.2	3795.6	3956.1
35°	4824.5	4848.2	4783.1	4587.3	4161.8	3581.1	3259.9	3354.5	3417.5	3792.6	3933.5
37.5°	5463.5	5485.2	5363.2	5155.4	4779.3	4053.6	3549.6	3478.5	3526.8	3840.0	3939.3
40°	6417.6	6414.6	6099.6	5781.6	5457.7	4654.2	3956.1	3703.2	3727.6	3982.7	4012.2
42.5°	7457.4	7452.5	6986.7	6503.3	6210.8	5393.7	4490.7	4091.1	4074.3	4245.6	4201.4
45°	8258.8	8257.8	7877.7	7333.4	7117.7	6242.3	5182.0	4630.6	4605.0	4673.0	4549.8
47.5°	8600.6	8606.4	8415.4	8032.4	8123.0	7390.4	6053.3	5412.4	5373.9	5346.4	5159.3
50°	8334.7	8346.4	8362.2	8287.4	8860.4	8933.3	7222.1	6514.1	6495.5	6372.3	6079.9
52.5°	7466.3	7526.3	7711.4	7948.7	9116.4	10414.1	9054.3	7882.6	7782.2	7651.4	7329.5
55°	6003.2	6069.0	6420.5	6996.5	8735.4	11386.8	11622.2	9647.1	9479.8	9088.8	8624.1
57.5°	3972.8	4075.3	4585.3	5317.8	7628.6	11543.5	14184.1	12095.8	11512.9	10442.6	9918.8
60°	2188.8	2287.3	2840.6	3504.2	5509.8	10769.6	15907.1	15283.9	14254.0	11956.0	11491.3
62.5°	1347.9	1401.0	1809.6	2427.0	3304.3	8500.0	16263.6	19290.4	18098.0	13904.5	13390.6
65°	1073.3	1095.8	1295.7	1983.9	2368.9	5055.9	15112.6	22344.5	21946.8	16263.6	15090.9
67°	1041.8	1050.6	1145.1	1703.4	2233.0	3099.5	12661.0	22841.7	23245.4	17691.3	15144.2
67.5°	1048.6	1058.5	1148.0	1625.6	2229.1	2848.4	11816.1	22645.8	23155.8	17804.5	14908.8
70°	1011.2	1041.8	1314.4	1624.6	2119.8	2366.9	7076.3	19621.0	20151.8	16543.2	12650.1
72.5°	358.5	360.4	568.1	1314.4	2305.0	2392.5	3553.4	14384.0	14776.8	12655.1	9120.3
75°	212.7	181.2	189.1	374.1	2202.6	2323.6	2049.9	9191.3	9337.9	7251.6	4618.7
77.5°	146.8	128.0	132.0	165.4	838.8	2291.1	1628.5	4793.0	4636.5	2543.2	983.6
80°	83.7	73.8	78.8	144.7	305.2	2137.5	1536.0	1943.7	1657.1	431.2	271.7
82.5°	44.2	37.4	45.3	119.1	212.7	1332.1	1538.9	939.3	744.3	145.7	185.1
85°	15.8	12.8	21.6	81.7	141.8	408.5	1426.7	789.6	620.3	70.8	140.9
87.5°	3.0	3.0	8.9	33.4	57.1	125.0	843.8	468.6	314.0	42.3	96.5
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°	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8	3722.8
2.5°	3711.0	3668.6	3611.5	3541.6	3459.0	3386.0	3332.0	3275.8	3263.9	3244.3	3241.4
5°	3686.4	3613.5	3471.7	3309.3	3136.0	2979.4	2852.4	2739.1	2688.9	2645.6	2640.7
7.5°	3650.0	3540.6	3299.4	3037.4	2766.7	2520.6	2311.9	2164.1	2028.3	1963.2	1953.5
10°	3607.6	3451.0	3105.4	2742.0	2367.9	2020.4	1710.3	1450.4	1292.8	1199.2	1187.4
12.5°	3568.2	3363.4	2907.5	2435.9	1938.7	1473.9	1075.2	827.1	661.6	594.7	586.9
15°	3549.6	3292.5	2722.5	2122.9	1489.7	938.3	587.9	454.9	400.7	385.0	383.9
17.5°	3547.4	3232.5	2541.2	1798.9	1043.7	545.5	382.9	349.5	338.8	334.8	334.8
20°	3546.5	3175.2	2360.0	1463.1	662.6	363.4	319.0	311.2	303.3	298.3	298.3
22.5°	3557.4	3124.1	2171.1	1120.5	417.4	294.5	280.6	272.7	262.8	255.9	254.9
25°	3568.2	3084.8	1978.1	797.5	302.3	255.9	242.3	231.4	217.6	208.8	207.8
27.5°	3570.1	3035.6	1771.3	533.7	253.1	223.5	205.8	189.1	173.4	164.4	163.4
30°	3540.6	2952.8	1541.9	360.4	223.5	193.9	170.3	152.6	137.8	131.0	131.0
32.5°	3482.5	2850.4	1289.8	271.7	198.9	166.4	140.9	124.1	114.3	111.3	110.3
35°	3430.4	2740.1	1030.8	230.3	178.3	140.9	115.3	104.4	98.5	97.5	96.5
37.5°	3399.8	2651.5	787.6	208.8	158.6	118.1	97.5	89.7	86.6	84.7	85.7
40°	3423.4	2577.6	581.9	191.0	138.8	98.5	82.7	78.8	75.7	74.7	74.7
42.5°	3526.8	2564.9	432.3	175.3	120.2	81.7	71.9	68.9	67.0	65.9	67.0
45°	3798.7	2643.6	335.7	160.4	101.4	68.9	61.1	60.0	59.1	59.1	59.1
47.5°	4207.2	2806.1	279.6	143.8	84.7	59.1	53.2	52.2	51.3	52.2	52.2
50°	4899.4	3103.5	250.1	127.0	69.9	50.2	45.3	45.3	45.3	45.3	46.3
52.5°	5951.9	3688.4	230.3	110.3	57.1	42.3	38.4	38.4	39.3	39.3	40.3
55°	7124.5	4464.1	212.7	93.6	48.2	35.5	31.5	32.5	33.4	34.5	34.5
57.5°	8396.6	5323.7	197.8	76.7	41.3	28.6	26.6	27.6	28.6	30.5	30.5
60°	9931.8	6254.2	176.2	60.0	34.5	22.6	20.8	22.6	25.6	27.6	28.6
62.5°	11617.3	7154.1	148.7	47.3	28.6	17.7	16.8	20.8	24.7	26.6	27.6
65°	12769.2	7436.7	114.3	38.4	21.6	12.8	13.7	18.8	23.6	26.6	26.6
67°	12302.6	6742.6	93.6	32.5	17.7	9.8	12.8	18.8	23.6	25.6	26.6
67.5°	11978.7	6470.9	89.7	31.5	16.8	9.8	12.8	18.8	23.6	26.6	26.6
70°	9746.6	4861.0	74.7	23.6	13.7	8.9	10.8	17.7	22.6	25.6	25.6
72.5°	6772.1	2997.1	67.0	16.8	11.8	7.8	9.8	16.8	21.6	24.7	25.6
75°	3219.6	1085.1	57.1	12.8	10.8	6.8	8.9	16.8	21.6	24.7	24.7
77.5°	656.8	252.1	46.3	10.8	8.9	6.8	7.8	15.8	20.8	23.6	23.6
80°	215.7	97.5	34.5	9.8	8.9	6.8	7.8	14.7	20.8	22.6	23.6
82.5°	155.5	49.2	22.6	9.8	8.9	6.8	6.8	14.7	19.8	22.6	22.6
85°	119.1	34.5	14.7	9.8	8.9	6.8	6.8	13.7	18.8	21.6	21.6
87.5°	78.8	13.7	11.8	9.8	8.9	6.8	6.8	13.7	17.7	20.8	21.6
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)