

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: P321719

Luminaire Tested: **GLEON-SA5B-827-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16148 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

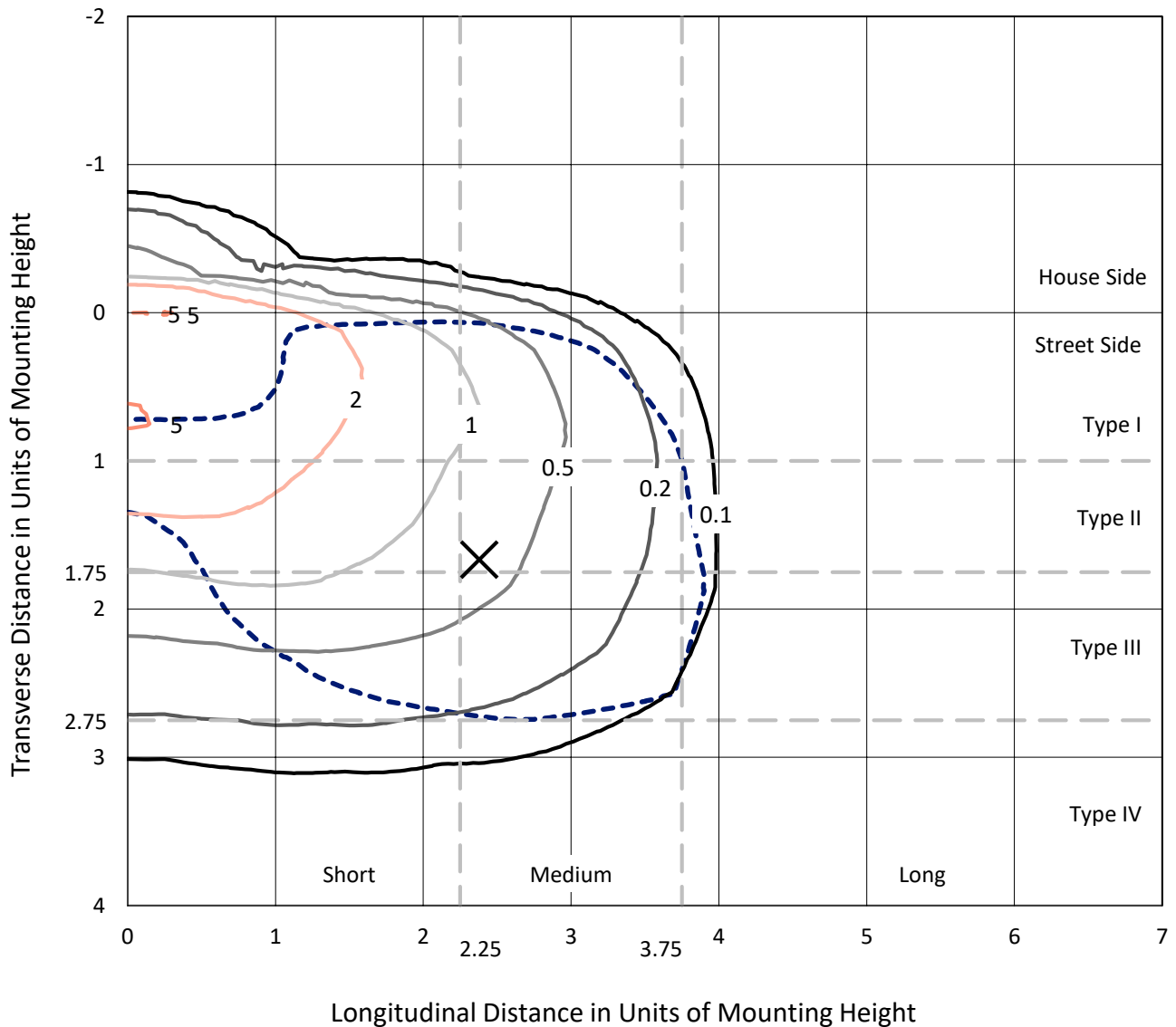
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

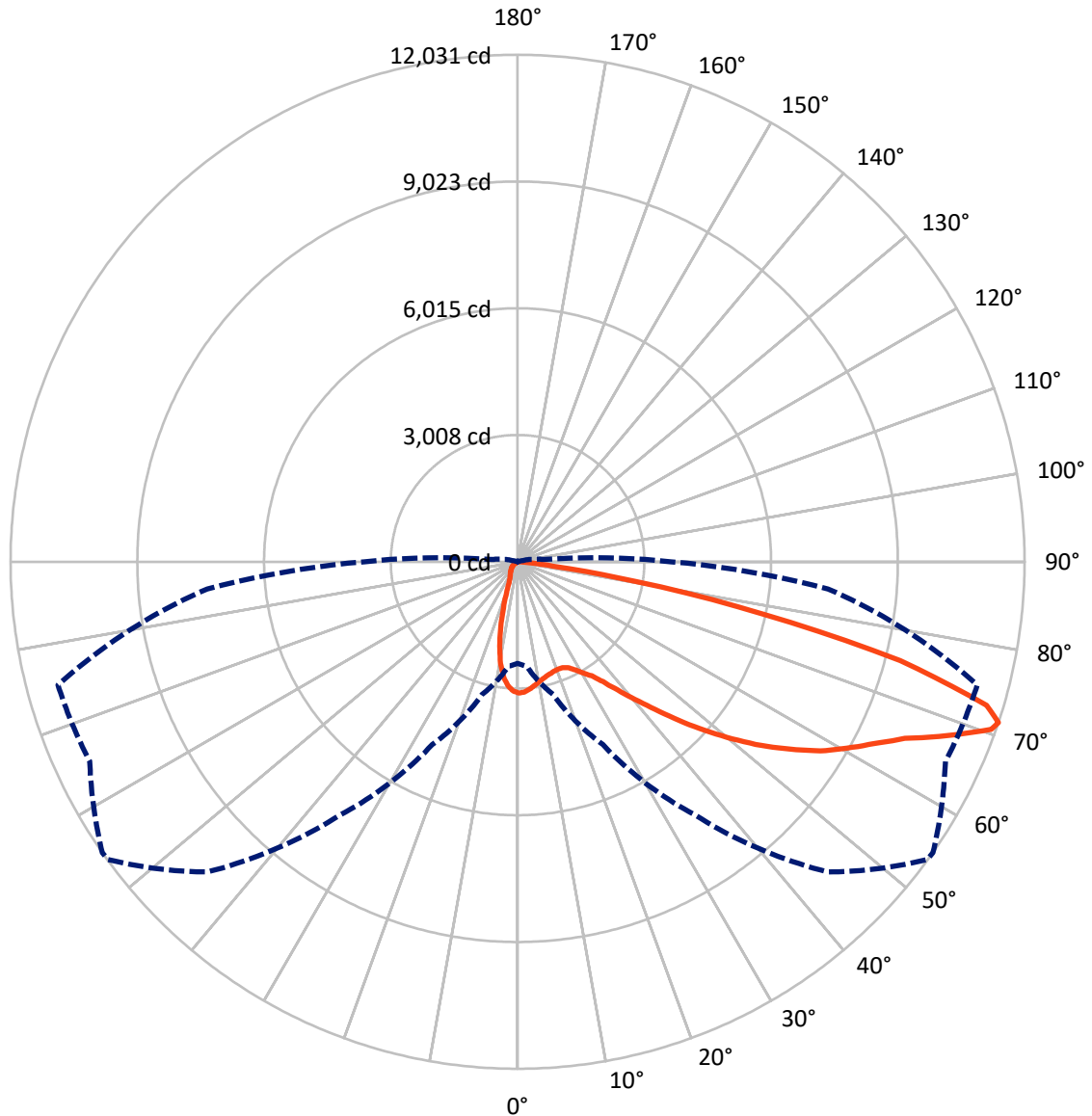
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1278.5	0.0	1278.5
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	14869.5	0.0	14869.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	16148.0	0.0	16148.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.5	1.6
10°-20°	599.4	3.7
20°-30°	963.3	6.0
30°-40°	1636.7	10.1
40°-50°	2540.4	15.7
50°-60°	3415.6	21.2
60°-70°	4178.4	25.9
70°-80°	2443.0	15.1
80°-90°	105.6	0.7
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°	16148.0	100.0
0°-180°	16148.0	100.0

**Coefficient of Utilization**

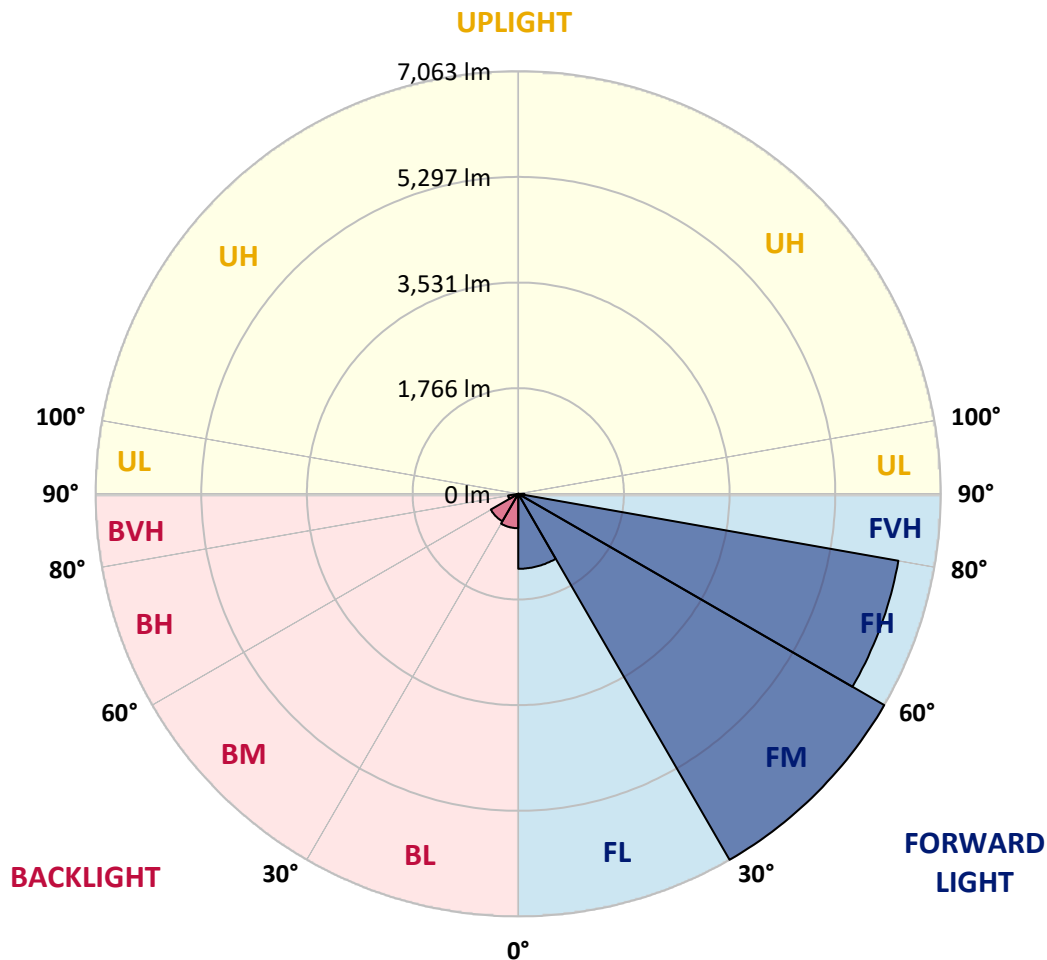


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1252.9	7.8			
FM (30°-60°)	7062.7	43.7			
FH (60°-80°)	6450.1	39.9			G3/7500
FVH (80°-90°)	103.9	0.6			G2/225
BL (0°-30°)	575.4	3.6	B2/1000		
BM (30°-60°)	530.1	3.3	B1/1000		
BH (60°-80°)	171.3	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2
2.5°	3022.8	3026.5	3039.5	3045.3	3059.1	3082.3	3093.9	3094.6	3113.5	3120.7	3126.5
5°	2808.9	2830.7	2852.4	2875.6	2917.7	2973.5	3028.6	3033.7	3094.6	3139.6	3163.5
7.5°	2624.8	2644.4	2670.5	2707.4	2766.9	2854.6	2946.7	2957.6	3072.9	3175.1	3228.8
10°	2435.5	2451.5	2489.2	2543.6	2625.5	2743.0	2866.9	2885.1	3053.3	3223.0	3317.2
12.5°	2233.2	2242.7	2288.3	2366.6	2487.0	2636.4	2799.5	2823.4	3041.0	3278.1	3421.6
15°	2079.5	2083.9	2127.4	2208.6	2346.3	2540.7	2747.3	2776.3	3043.9	3344.0	3535.5
17.5°	2040.4	2042.5	2065.7	2121.6	2243.4	2455.1	2706.0	2741.5	3052.6	3408.6	3650.0
20°	2199.2	2183.9	2160.0	2151.3	2203.5	2403.6	2681.3	2721.2	3064.2	3465.9	3753.0
22.5°	2634.9	2590.0	2490.6	2357.9	2277.5	2407.3	2687.9	2727.7	3101.1	3536.2	3871.9
25°	3281.7	3219.3	3050.4	2789.4	2538.5	2511.7	2742.2	2782.8	3172.9	3620.3	3985.7
27.5°	4017.6	3956.0	3749.4	3376.7	2948.9	2718.3	2866.9	2904.7	3279.5	3695.0	4072.7
30°	4722.4	4705.0	4461.4	4037.9	3465.1	3053.3	3027.9	3059.8	3358.6	3739.9	4141.6
32.5°	5319.9	5292.3	5096.6	4684.7	4056.1	3455.7	3217.2	3226.6	3418.0	3797.9	4231.5
35°	5873.8	5839.8	5667.9	5278.6	4662.2	3947.3	3508.6	3494.9	3547.8	3914.7	4362.1
37.5°	6357.5	6388.6	6197.9	5827.4	5206.0	4458.5	3901.6	3860.3	3750.8	4104.7	4551.3
40°	6762.1	6762.1	6662.7	6353.8	5793.4	4987.1	4346.1	4291.7	4056.1	4397.6	4791.3
42.5°	6907.8	6939.0	6976.0	6801.2	6319.0	5536.7	4841.3	4784.8	4486.0	4813.1	5094.4
45°	6916.5	6965.8	7155.0	7154.3	6794.0	6082.7	5399.6	5372.8	5037.1	5346.7	5470.0
47.5°	6794.0	6855.6	7167.4	7344.3	7170.3	6590.9	6010.2	5976.8	5684.6	6000.7	5863.0
50°	6604.7	6672.9	7035.4	7419.0	7426.2	7033.2	6653.3	6603.3	6397.3	6748.3	6269.0
52.5°	6266.1	6398.1	6917.2	7436.4	7594.4	7415.3	7265.3	7243.5	7194.9	7468.3	6592.4
55°	5541.8	5688.2	6620.7	7442.2	7750.3	7754.0	7838.8	7844.6	7942.5	8141.1	6833.1
57.5°	5199.5	5282.2	6103.0	7469.7	7981.6	8138.2	8423.2	8468.2	8619.7	8779.9	7107.9
60°	4984.2	5082.1	5847.7	7432.0	8344.9	8642.2	8964.8	8980.1	9142.5	9439.0	7479.9
62.5°	4812.3	4908.8	5686.8	7287.0	8753.1	9248.3	9494.1	9495.6	9617.4	10224.3	7902.6
65°	4388.2	4469.4	5361.2	7123.9	9022.8	9848.0	10109.0	10099.6	10198.9	11052.3	8393.5
67.5°	3774.7	3837.1	4696.3	6505.4	8921.3	10393.2	11037.1	11005.9	10885.6	11768.0	8586.3
70°	2918.4	2940.9	3701.5	5421.4	7970.0	10602.8	11934.0	11918.1	11306.8	11639.6	7879.4
71°	2412.3	2486.3	3262.1	4784.8	7332.7	10409.2	12021.0	12030.5	11201.0	11290.2	7392.9
72.5°	1400.8	1463.9	2364.5	3674.7	6225.5	9601.5	11570.0	11638.2	10706.5	10269.2	6314.7
75°	300.2	321.2	876.6	1778.6	3424.5	6729.4	9132.3	9375.2	8726.3	6986.1	3805.9
77.5°	208.8	225.5	375.6	807.0	1131.8	3325.2	5673.0	5947.1	5213.3	2625.5	1218.1
80°	165.3	184.2	292.9	398.8	306.0	1072.4	2657.4	2824.9	1738.7	585.9	205.2
82.5°	92.1	109.5	228.4	215.3	117.5	203.7	743.9	841.1	348.0	118.2	48.6
85°	26.8	32.6	147.2	156.6	50.0	39.2	126.9	157.3	66.0	31.2	21.8
87.5°	0.0	0.0	71.1	60.2	14.5	5.8	11.6	13.1	13.1	13.1	14.5
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°	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2	3114.2
2.5°	3126.5	3131.6	3113.5	3089.5	3064.2	3033.0	3000.4	2975.0	2974.3	2961.9	2949.6
5°	3165.0	3162.1	3112.0	3035.9	2946.0	2852.4	2763.3	2662.5	2629.1	2587.8	2574.0
7.5°	3236.0	3215.7	3109.8	2943.1	2745.9	2550.1	2347.8	2144.0	2057.0	1978.7	1965.0
10°	3325.2	3286.8	3096.1	2803.9	2442.1	2081.0	1775.7	1498.7	1376.9	1283.4	1279.0
12.5°	3418.0	3359.3	3057.6	2593.6	2044.0	1536.4	1184.8	912.1	810.6	745.4	751.2
15°	3515.2	3427.4	2975.0	2310.1	1590.8	1042.7	728.0	567.7	527.1	510.5	514.8
17.5°	3614.5	3474.6	2859.7	1968.6	1143.4	672.9	503.9	459.0	459.0	462.6	464.0
20°	3700.8	3499.9	2690.0	1585.7	775.1	490.2	440.8	434.3	437.9	443.7	444.5
22.5°	3786.3	3501.4	2468.9	1197.8	542.4	429.2	419.8	416.9	419.1	425.6	426.3
25°	3856.0	3484.0	2191.9	852.0	432.9	404.6	400.2	398.8	400.2	408.2	408.2
27.5°	3884.2	3420.9	1854.0	598.9	387.9	377.0	375.6	377.0	379.2	385.0	385.7
30°	3887.1	3310.7	1485.7	433.6	351.7	340.1	343.0	348.0	345.9	344.4	345.9
32.5°	3894.4	3183.1	1126.8	356.7	321.2	303.1	299.5	299.5	290.8	285.7	282.8
35°	3918.3	3033.0	817.2	320.5	290.0	269.0	255.2	239.3	222.6	213.9	211.7
37.5°	3956.0	2875.6	585.1	296.6	262.5	238.5	212.4	184.2	160.2	153.7	153.7
40°	4024.9	2713.2	432.9	277.7	240.7	211.0	171.8	134.9	113.1	109.5	109.5
42.5°	4133.7	2542.1	345.1	261.0	221.9	182.7	131.2	97.9	81.9	79.8	79.0
45°	4246.8	2353.6	301.6	245.1	201.6	150.1	97.2	72.5	63.1	60.9	60.9
47.5°	4359.9	2152.7	280.6	229.8	182.0	116.7	72.5	57.3	52.9	52.9	53.7
50°	4455.6	1943.2	265.4	213.2	156.6	88.5	57.3	48.6	47.1	50.0	50.8
52.5°	4479.5	1737.3	246.5	192.1	125.4	67.4	47.1	42.8	42.8	42.8	42.8
55°	4465.0	1577.8	221.9	166.0	92.8	53.7	40.6	37.7	37.0	37.0	37.0
57.5°	4514.3	1483.5	177.6	129.1	66.7	43.5	35.5	33.4	31.9	31.2	31.2
60°	4613.7	1421.9	126.9	92.8	50.0	36.3	30.5	28.3	26.1	24.7	24.7
62.5°	4745.6	1368.2	94.3	68.9	38.4	29.0	25.4	23.2	20.3	18.9	18.9
65°	4847.1	1272.5	71.8	51.5	29.0	23.2	19.6	18.9	14.5	13.1	12.3
67.5°	4692.0	1062.2	58.0	37.7	21.8	18.1	15.2	14.5	8.7	7.3	7.3
70°	4024.2	739.6	46.4	27.6	16.0	14.5	12.3	9.4	6.5	5.8	5.8
71°	3649.3	617.8	42.1	23.2	13.8	13.8	11.6	8.0	5.8	5.1	5.1
72.5°	3031.5	438.7	35.5	18.1	12.3	14.5	12.3	7.3	5.8	5.1	4.4
75°	1759.8	183.4	24.7	12.3	9.4	17.4	16.0	6.5	4.4	3.6	3.6
77.5°	529.3	67.4	13.8	8.0	7.3	15.2	18.1	5.8	2.2	0.7	0.7
80°	96.4	29.0	8.7	5.1	5.1	9.4	13.8	2.9	0.0	0.0	0.0
82.5°	34.1	14.5	5.1	2.9	2.2	4.4	6.5	0.0	0.0	0.0	0.0
85°	19.6	10.2	2.9	1.5	0.0	0.7	1.5	0.0	0.0	0.0	0.0
87.5°	13.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)