

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: P321711

Luminaire Tested: **GLEON-SA7A-827-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321711  
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-SA7A-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA 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: 18637 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

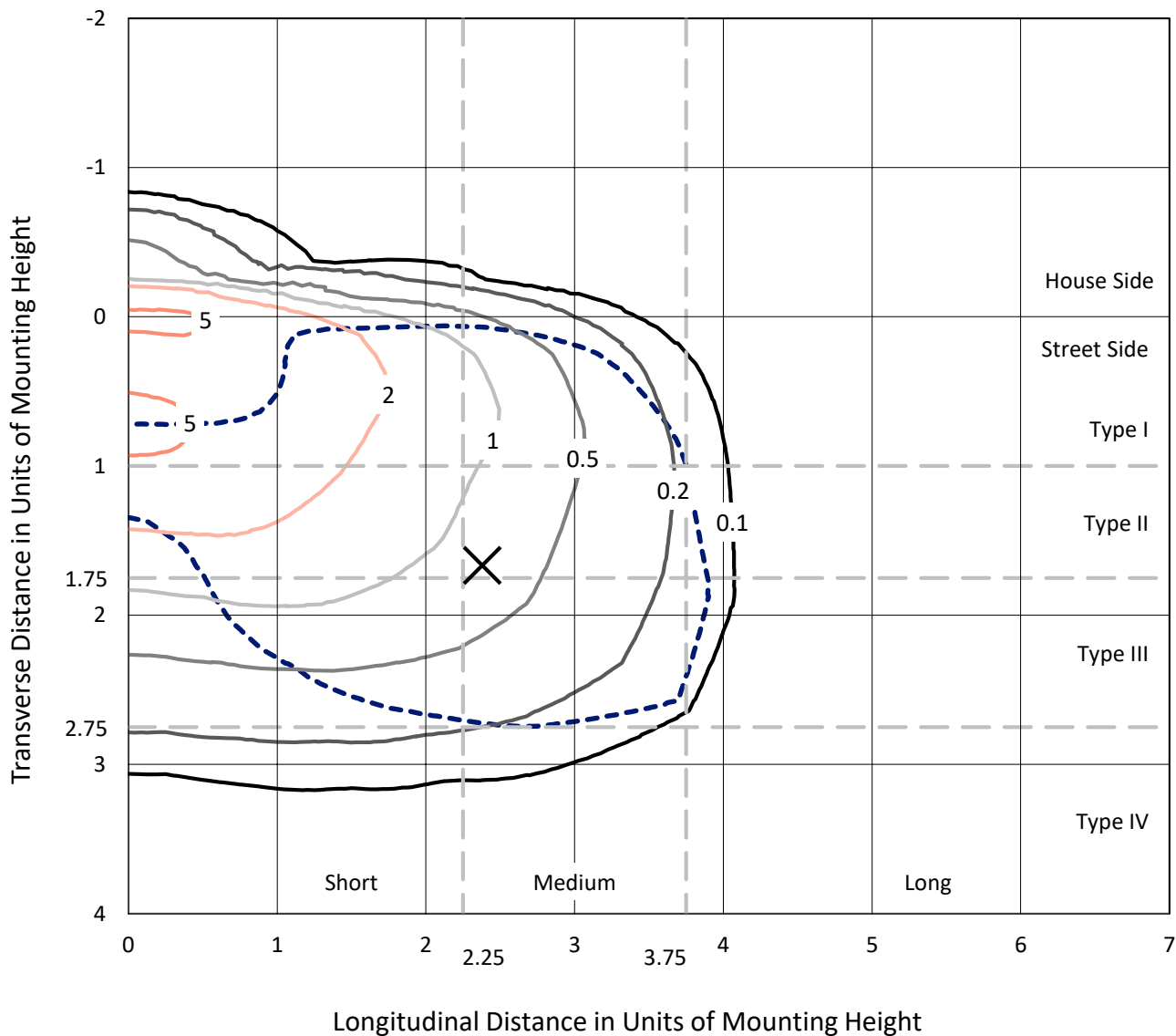
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

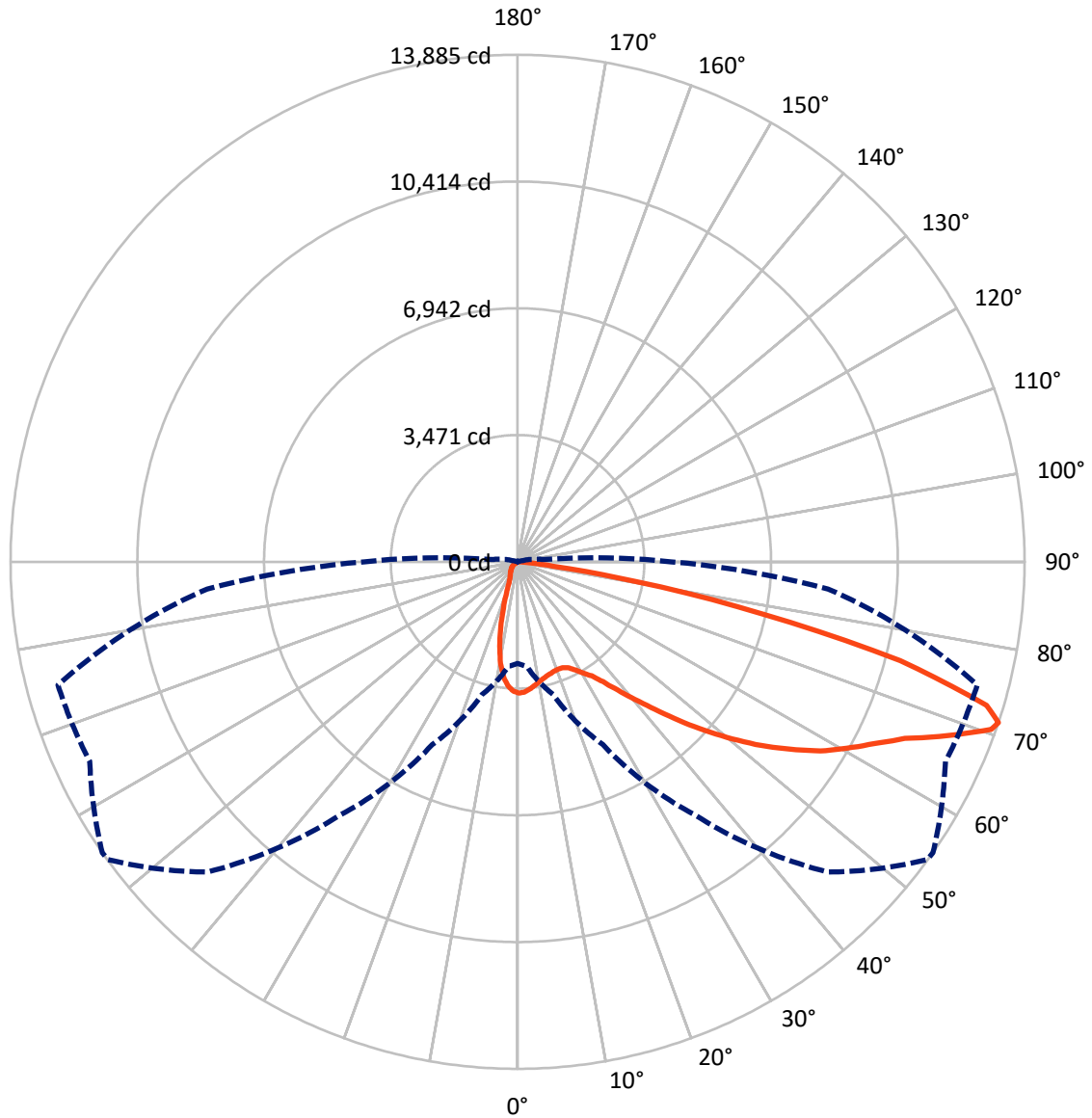
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1475.5	0.0	1475.5
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	17161.5	0.0	17161.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	18637.0	0.0	18637.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.5	1.6
10°-20°	691.8	3.7
20°-30°	1111.8	6.0
30°-40°	1889.0	10.1
40°-50°	2932.0	15.7
50°-60°	3942.0	21.2
60°-70°	4822.4	25.9
70°-80°	2819.5	15.1
80°-90°	121.9	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°	18637.0	100.0
0°-180°	18637.0	100.0

**Coefficient of Utilization**

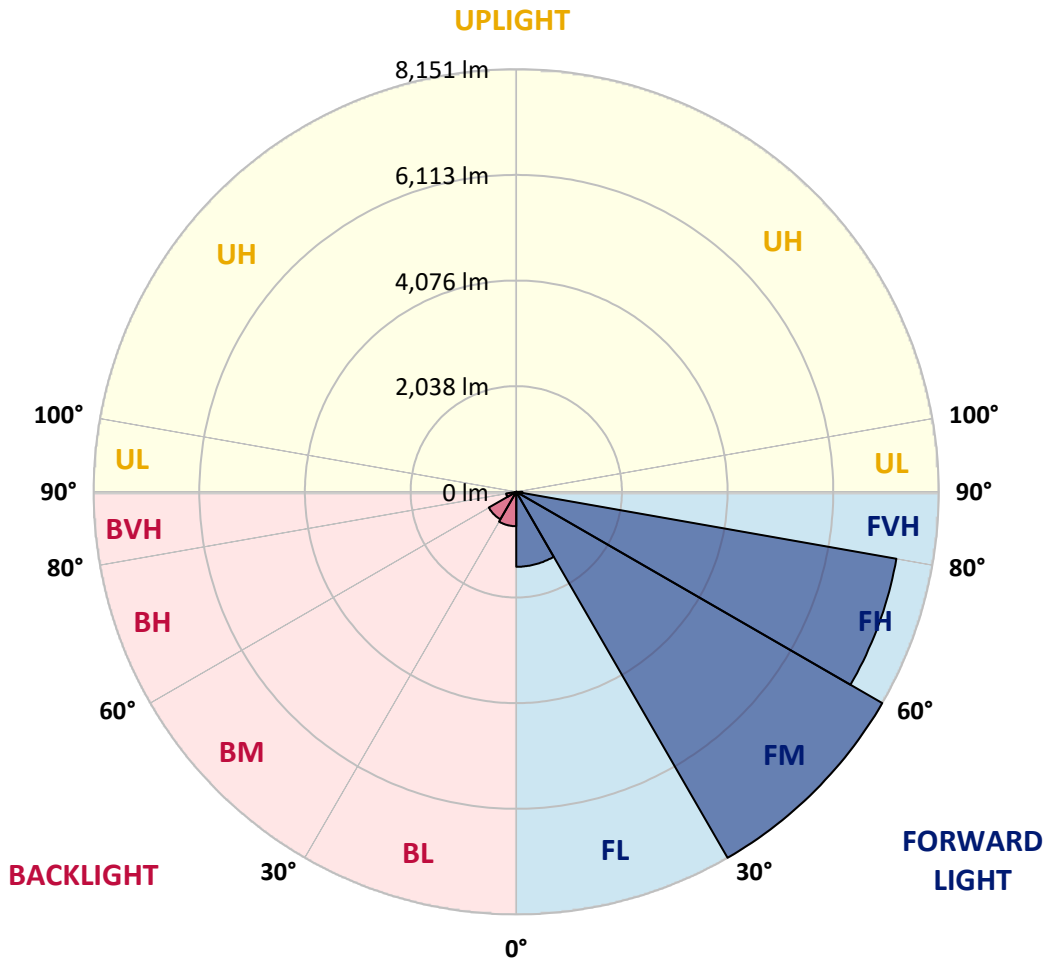


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.0	7.8			
FM (30°-60°)	8151.3	43.7			
FH (60°-80°)	7444.2	39.9			G3/7500
FVH (80°-90°)	120.0	0.6			G2/225
BL (0°-30°)	664.1	3.6	B2/1000		
BM (30°-60°)	611.8	3.3	B1/1000		
BH (60°-80°)	197.7	1.1	B1/500		G1/500
BVH (80°-90°)	1.9	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°	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2
2.5°	3488.8	3493.0	3508.0	3514.7	3530.6	3557.4	3570.8	3571.6	3593.4	3601.7	3608.4
5°	3241.9	3267.0	3292.1	3318.9	3367.4	3431.9	3495.5	3501.3	3571.6	3623.5	3651.1
7.5°	3029.3	3051.9	3082.1	3124.7	3193.4	3294.6	3400.9	3413.5	3546.5	3664.5	3726.4
10°	2810.9	2829.3	2872.9	2935.6	3030.2	3165.8	3308.9	3329.8	3523.9	3719.7	3828.5
12.5°	2577.5	2588.3	2641.1	2731.4	2870.3	3042.7	3231.0	3258.6	3509.7	3783.3	3949.0
15°	2400.0	2405.1	2455.3	2549.0	2708.0	2932.3	3170.8	3204.2	3513.0	3859.5	4080.4
17.5°	2354.9	2357.4	2384.1	2448.6	2589.2	2833.5	3123.1	3164.1	3523.1	3934.0	4212.6
20°	2538.1	2520.6	2492.9	2482.9	2543.1	2774.1	3094.6	3140.6	3536.5	4000.1	4331.5
22.5°	3041.1	2989.2	2874.5	2721.4	2628.5	2778.3	3102.2	3148.2	3579.1	4081.3	4468.7
25°	3787.5	3715.6	3520.6	3219.3	2929.8	2898.8	3164.9	3211.8	3662.0	4178.3	4600.1
27.5°	4636.9	4565.8	4327.3	3897.1	3403.4	3137.3	3308.9	3352.4	3785.0	4264.5	4700.5
30°	5450.3	5430.2	5149.1	4660.3	3999.2	3523.9	3494.6	3531.4	3876.2	4316.4	4780.0
32.5°	6139.9	6108.1	5882.1	5406.8	4681.3	3988.4	3713.0	3723.9	3944.8	4383.3	4883.8
35°	6779.2	6739.9	6541.6	6092.2	5380.9	4555.7	4049.5	4033.6	4094.6	4518.1	5034.4
37.5°	7337.4	7373.4	7153.3	6725.7	6008.5	5145.7	4503.0	4455.3	4329.0	4737.3	5252.8
40°	7804.3	7804.3	7689.7	7333.2	6686.3	5755.8	5016.0	4953.2	4681.3	5075.4	5529.8
42.5°	7972.5	8008.5	8051.2	7849.5	7293.0	6390.1	5587.6	5522.3	5177.5	5554.9	5879.6
45°	7982.6	8039.5	8257.9	8257.1	7841.2	7020.2	6231.9	6201.0	5813.5	6170.8	6313.1
47.5°	7841.2	7912.3	8272.1	8476.3	8275.5	7606.8	6936.5	6898.0	6560.8	6925.7	6766.7
50°	7622.7	7701.4	8119.8	8562.5	8570.9	8117.3	7678.8	7621.1	7383.4	7788.4	7235.3
52.5°	7231.9	7384.2	7983.4	8582.6	8765.0	8558.3	8385.1	8360.0	8303.9	8619.4	7608.5
55°	6395.9	6565.0	7641.2	8589.3	8944.9	8949.1	9047.0	9053.7	9166.7	9396.0	7886.3
57.5°	6001.0	6096.4	7043.7	8621.1	9211.9	9392.7	9721.5	9773.4	9948.3	10133.3	8203.5
60°	5752.4	5865.4	6749.1	8577.6	9631.2	9974.3	10346.6	10364.2	10551.7	10893.9	8632.8
62.5°	5554.1	5665.4	6563.3	8410.2	10102.3	10673.8	10957.5	10959.2	11099.8	11800.2	9120.7
65°	5064.5	5158.3	6187.6	8221.9	10413.6	11365.9	11667.2	11656.3	11770.9	12755.9	9687.2
67.5°	4356.6	4428.5	5420.2	7508.1	10296.4	11995.2	12738.3	12702.3	12563.4	13581.9	9909.8
70°	3368.3	3394.2	4272.0	6257.0	9198.5	12237.1	13773.5	13755.1	13049.6	13433.7	9093.9
71°	2784.2	2869.5	3764.9	5522.3	8462.9	12013.6	13873.9	13884.8	12927.4	13030.4	8532.4
72.5°	1616.8	1689.6	2728.9	4241.1	7185.1	11081.4	13353.4	13432.1	12356.7	11852.1	7288.0
75°	346.5	370.7	1011.7	2052.8	3952.4	7766.7	10540.0	10820.3	10071.3	8062.9	4392.6
77.5°	241.0	260.3	433.5	931.4	1306.3	3837.7	6547.4	6863.7	6016.9	3030.2	1405.9
80°	190.8	212.6	338.1	460.3	353.1	1237.7	3067.0	3260.3	2006.7	676.2	236.8
82.5°	106.3	126.4	263.6	248.5	135.6	235.2	858.6	970.7	401.7	136.4	56.1
85°	31.0	37.7	169.9	180.8	57.7	45.2	146.4	181.6	76.2	36.0	25.1
87.5°	0.0	0.0	82.0	69.5	16.7	6.7	13.4	15.1	15.1	15.1	16.7
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°	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2	3594.2
2.5°	3608.4	3614.3	3593.4	3565.8	3536.5	3500.5	3462.8	3433.5	3432.7	3418.5	3404.3
5°	3652.8	3649.4	3591.7	3503.8	3400.1	3292.1	3189.2	3072.9	3034.4	2986.7	2970.8
7.5°	3734.8	3711.4	3589.2	3396.7	3169.1	2943.2	2709.7	2474.5	2374.1	2283.7	2267.8
10°	3837.7	3793.4	3573.3	3236.0	2818.5	2401.7	2049.4	1729.7	1589.2	1481.2	1476.2
12.5°	3944.8	3877.1	3528.9	2993.4	2359.0	1773.3	1367.4	1052.7	935.6	860.3	867.0
15°	4057.0	3955.7	3433.5	2666.2	1836.0	1203.4	840.2	655.2	608.4	589.1	594.2
17.5°	4171.6	4010.1	3300.5	2272.0	1319.7	776.6	581.6	529.7	529.7	533.9	535.6
20°	4271.2	4039.4	3104.7	1830.2	894.6	565.7	508.8	501.3	505.4	512.1	513.0
22.5°	4370.0	4041.1	2849.4	1382.5	626.0	495.4	484.5	481.2	483.7	491.2	492.1
25°	4450.3	4021.0	2529.8	983.3	499.6	467.0	461.9	460.3	461.9	471.1	471.1
27.5°	4482.9	3948.2	2139.8	691.2	447.7	435.2	433.5	435.2	437.7	444.4	445.2
30°	4486.3	3821.0	1714.7	500.4	405.9	392.5	395.8	401.7	399.2	397.5	399.2
32.5°	4494.6	3673.7	1300.4	411.7	370.7	349.8	345.6	345.6	335.6	329.7	326.4
35°	4522.3	3500.5	943.1	369.9	334.7	310.5	294.6	276.2	256.9	246.9	244.4
37.5°	4565.8	3318.9	675.3	342.3	302.9	275.3	245.2	212.6	184.9	177.4	177.4
40°	4645.3	3131.4	499.6	320.5	277.8	243.5	198.3	155.7	130.5	126.4	126.4
42.5°	4770.8	2933.9	398.3	301.3	256.1	210.9	151.5	113.0	94.6	92.1	91.2
45°	4901.4	2716.4	348.1	282.9	232.6	173.2	112.1	83.7	72.8	70.3	70.3
47.5°	5031.9	2484.6	323.9	265.3	210.0	134.7	83.7	66.1	61.1	61.1	61.9
50°	5142.4	2242.7	306.3	246.0	180.8	102.1	66.1	56.1	54.4	57.7	58.6
52.5°	5170.0	2005.1	284.5	221.8	144.8	77.8	54.4	49.4	49.4	49.4	49.4
55°	5153.2	1821.0	256.1	191.6	107.1	61.9	46.9	43.5	42.7	42.7	42.7
57.5°	5210.1	1712.2	205.0	149.0	77.0	50.2	41.0	38.5	36.8	36.0	36.0
60°	5324.8	1641.0	146.4	107.1	57.7	41.8	35.1	32.6	30.1	28.5	28.5
62.5°	5477.1	1579.1	108.8	79.5	44.4	33.5	29.3	26.8	23.4	21.8	21.8
65°	5594.3	1468.6	82.8	59.4	33.5	26.8	22.6	21.8	16.7	15.1	14.2
67.5°	5415.2	1226.0	66.9	43.5	25.1	20.9	17.6	16.7	10.0	8.4	8.4
70°	4644.4	853.6	53.6	31.8	18.4	16.7	14.2	10.9	7.5	6.7	6.7
71°	4211.8	713.0	48.5	26.8	15.9	15.9	13.4	9.2	6.7	5.9	5.9
72.5°	3498.8	506.3	41.0	20.9	14.2	16.7	14.2	8.4	6.7	5.9	5.0
75°	2031.0	211.7	28.5	14.2	10.9	20.1	18.4	7.5	5.0	4.2	4.2
77.5°	610.9	77.8	15.9	9.2	8.4	17.6	20.9	6.7	2.5	0.8	0.8
80°	111.3	33.5	10.0	5.9	5.9	10.9	15.9	3.3	0.0	0.0	0.0
82.5°	39.3	16.7	5.9	3.3	2.5	5.0	7.5	0.0	0.0	0.0	0.0
85°	22.6	11.7	3.3	1.7	0.0	0.8	1.7	0.0	0.0	0.0	0.0
87.5°	15.1	3.3	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)