

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: P321729

Luminaire Tested: **GLEON-SA5C-827-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321729  
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-SA5C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA 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: 19987 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

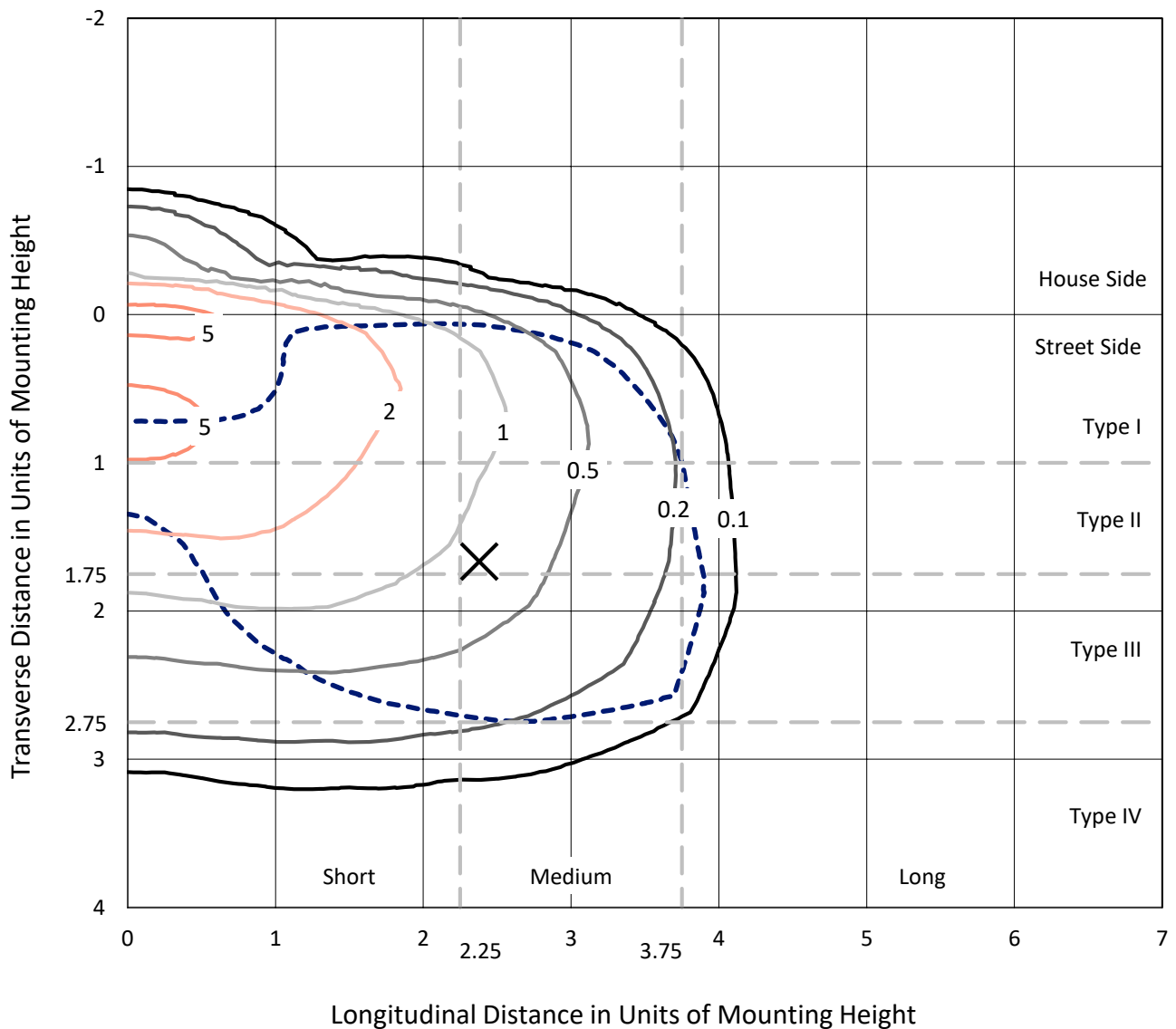
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

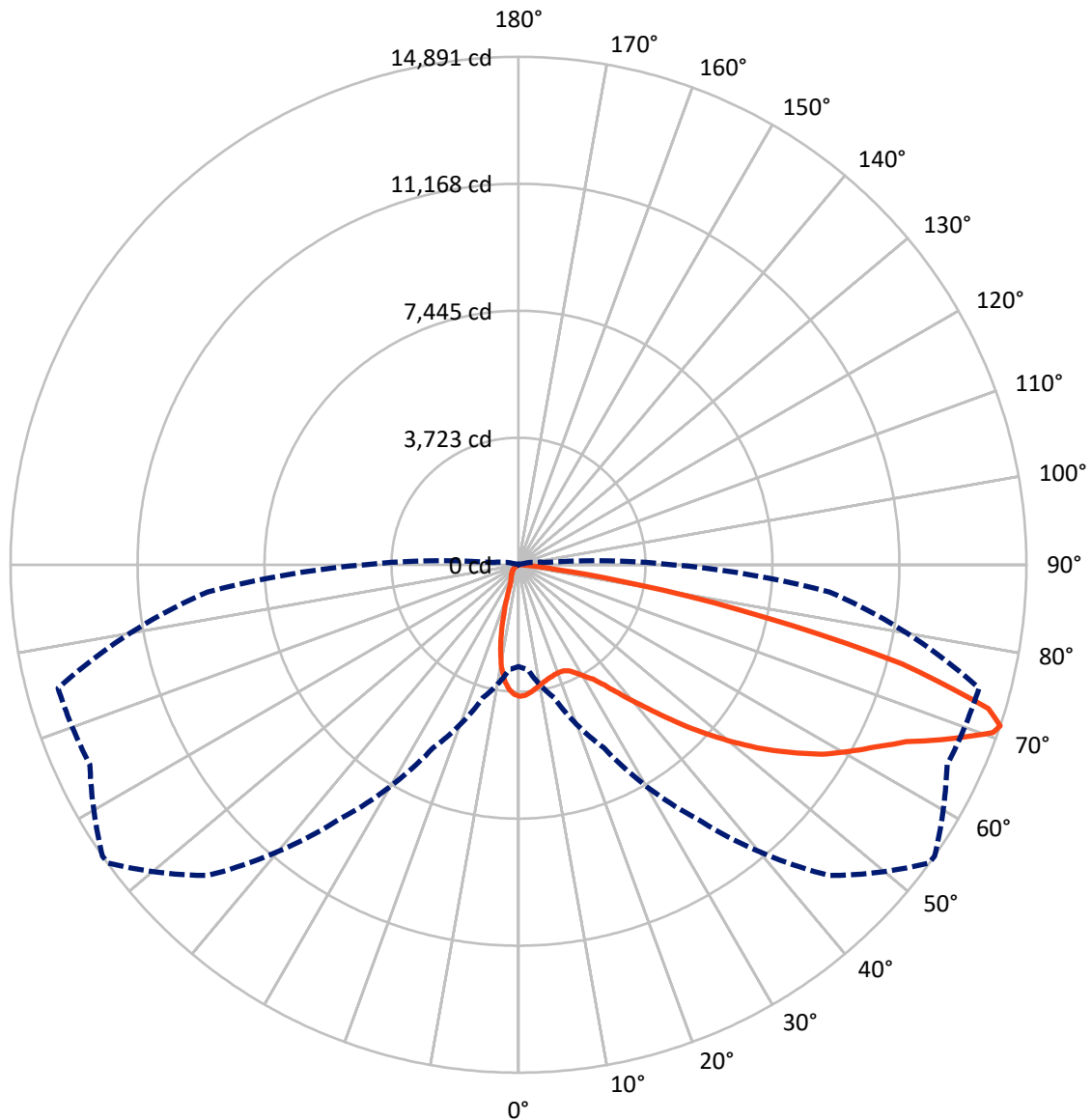
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1582.4	0.0	1582.4
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	18404.6	0.0	18404.6
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	19987.0	0.0	19987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.7	1.6
10°-20°	742.0	3.7
20°-30°	1192.4	6.0
30°-40°	2025.9	10.1
40°-50°	3144.4	15.7
50°-60°	4227.6	21.2
60°-70°	5171.7	25.9
70°-80°	3023.8	15.1
80°-90°	130.7	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°	19987.0	100.0
0°-180°	19987.0	100.0

**Coefficient of Utilization**

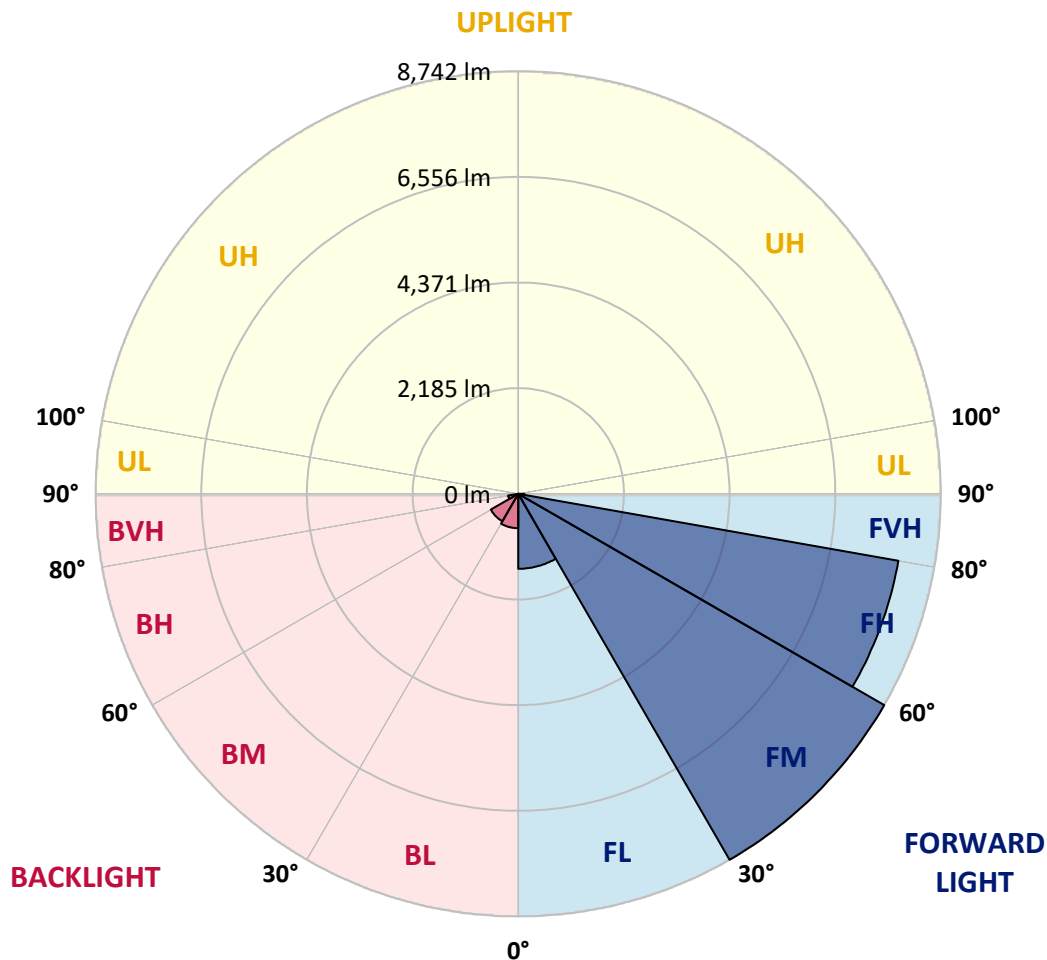


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.7	7.8			
FM (30°-60°)	8741.7	43.7			
FH (60°-80°)	7983.5	39.9			G4/12000
FVH (80°-90°)	128.6	0.6			G2/225
BL (0°-30°)	712.3	3.6	B2/1000		
BM (30°-60°)	656.1	3.3	B1/1000		
BH (60°-80°)	212.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6
2.5°	3741.5	3746.0	3762.1	3769.3	3786.4	3815.1	3829.4	3830.3	3853.7	3862.6	3869.8
5°	3476.7	3503.7	3530.6	3559.3	3611.4	3680.5	3748.7	3754.9	3830.3	3886.0	3915.6
7.5°	3248.8	3273.0	3305.3	3351.1	3424.7	3533.3	3647.3	3660.7	3803.4	3930.0	3996.4
10°	3014.5	3034.3	3081.0	3148.3	3249.7	3395.1	3548.5	3571.0	3779.2	3989.2	4105.9
12.5°	2764.2	2775.8	2832.4	2929.3	3078.3	3263.1	3465.1	3494.7	3763.9	4057.4	4235.1
15°	2573.9	2579.3	2633.1	2733.6	2904.2	3144.7	3400.5	3436.4	3767.5	4139.1	4376.0
17.5°	2525.4	2528.1	2556.8	2626.0	2776.7	3038.8	3349.3	3393.3	3778.3	4218.9	4517.8
20°	2722.0	2703.1	2673.5	2662.7	2727.4	2975.1	3318.8	3368.1	3792.6	4289.8	4645.2
22.5°	3261.3	3205.7	3082.8	2918.5	2818.9	2979.5	3326.9	3376.2	3838.4	4376.9	4792.4
25°	4061.9	3984.7	3775.6	3452.5	3142.0	3108.8	3394.2	3444.4	3927.3	4481.0	4933.3
27.5°	4972.8	4896.5	4640.7	4179.4	3649.9	3364.6	3548.5	3595.2	4059.2	4573.4	5041.0
30°	5845.1	5823.6	5522.0	4997.9	4288.9	3779.2	3747.8	3787.3	4157.0	4629.1	5126.3
32.5°	6584.6	6550.5	6308.2	5798.4	5020.4	4277.3	3982.0	3993.7	4230.6	4700.9	5237.5
35°	7270.3	7228.1	7015.4	6533.5	5770.6	4885.7	4342.8	4325.7	4391.2	4845.4	5399.1
37.5°	7868.9	7907.5	7671.4	7212.8	6443.7	5518.4	4829.2	4778.0	4642.5	5080.5	5633.3
40°	8369.7	8369.7	8246.7	7864.4	7170.7	6172.7	5379.3	5312.0	5020.4	5443.1	5930.4
42.5°	8550.0	8588.6	8634.4	8418.1	7821.3	6853.0	5992.3	5922.3	5552.5	5957.3	6305.5
45°	8560.8	8621.8	8856.1	8855.2	8409.1	7528.7	6683.3	6650.1	6234.6	6617.8	6770.4
47.5°	8409.1	8485.4	8871.3	9090.3	8874.9	8157.9	7439.0	7397.7	7036.0	7427.3	7256.8
50°	8174.9	8259.3	8708.0	9182.7	9191.7	8705.3	8235.0	8173.1	7918.2	8352.6	7759.4
52.5°	7755.8	7919.1	8561.7	9204.3	9399.9	9178.3	8992.5	8965.6	8905.4	9243.8	8159.7
55°	6859.2	7040.5	8194.7	9211.5	9592.9	9597.4	9702.4	9709.6	9830.7	10076.6	8457.6
57.5°	6435.6	6538.0	7553.9	9245.6	9879.2	10073.0	10425.7	10481.4	10668.9	10867.3	8797.7
60°	6169.1	6290.3	7238.0	9198.9	10328.8	10696.8	11096.1	11115.0	11316.0	11683.1	9258.1
62.5°	5956.4	6075.8	7038.7	9019.4	10834.1	11447.0	11751.3	11753.1	11903.8	12655.0	9781.4
65°	5431.4	5531.9	6635.8	8817.5	11167.9	12189.2	12512.3	12500.6	12623.6	13679.9	10388.9
67.5°	4672.1	4749.3	5812.8	8052.0	11042.3	12864.1	13661.0	13622.5	13473.5	14565.7	10627.6
70°	3612.3	3640.1	4581.5	6710.3	9864.8	13123.5	14771.2	14751.5	13994.9	14406.8	9752.6
71°	2985.8	3077.4	4037.6	5922.3	9076.0	12883.8	14878.9	14890.6	13863.9	13974.3	9150.4
72.5°	1733.9	1812.0	2926.6	4548.3	7705.5	11884.1	14320.7	14405.0	13251.8	12710.6	7815.9
75°	371.5	397.6	1085.0	2201.5	4238.7	8329.3	11303.4	11604.1	10800.9	8647.0	4710.7
77.5°	258.5	279.1	464.9	998.9	1400.9	4115.7	7021.7	7360.9	6452.7	3249.7	1507.7
80°	204.6	228.0	362.6	493.6	378.7	1327.3	3289.2	3496.5	2152.1	725.1	254.0
82.5°	114.0	135.5	282.7	266.5	145.4	252.2	920.8	1041.0	430.8	146.3	60.1
85°	33.2	40.4	182.2	193.9	61.9	48.5	157.1	194.7	81.7	38.6	26.9
87.5°	0.0	0.0	88.0	74.5	17.9	7.2	14.4	16.2	16.2	16.2	17.9
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°	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6	3854.6
2.5°	3869.8	3876.1	3853.7	3824.1	3792.6	3754.0	3713.7	3682.3	3681.4	3666.1	3650.8
5°	3917.4	3913.8	3851.9	3757.6	3646.4	3530.6	3420.2	3295.5	3254.2	3203.0	3186.0
7.5°	4005.3	3980.2	3849.2	3642.8	3398.7	3156.3	2906.0	2653.8	2546.1	2449.2	2432.1
10°	4115.7	4068.2	3832.1	3470.5	3022.6	2575.7	2197.9	1855.0	1704.3	1588.5	1583.1
12.5°	4230.6	4157.9	3784.6	3210.2	2529.9	1901.7	1466.4	1129.0	1003.4	922.6	929.8
15°	4350.9	4242.3	3682.3	2859.3	1969.0	1290.5	901.0	702.7	652.4	631.8	637.2
17.5°	4473.8	4300.6	3539.6	2436.6	1415.3	832.8	623.7	568.1	568.1	572.6	574.4
20°	4580.6	4332.0	3329.6	1962.7	959.4	606.7	545.7	537.6	542.1	549.2	550.1
22.5°	4686.5	4333.8	3055.8	1482.6	671.3	531.3	519.6	516.0	518.7	526.8	527.7
25°	4772.7	4312.3	2713.0	1054.5	535.8	500.8	495.4	493.6	495.4	505.3	505.3
27.5°	4807.7	4234.2	2294.8	741.3	480.1	466.7	464.9	466.7	469.4	476.5	477.4
30°	4811.3	4097.8	1838.9	536.7	435.3	420.9	424.5	430.8	428.1	426.3	428.1
32.5°	4820.2	3939.8	1394.6	441.5	397.6	375.1	370.6	370.6	359.9	353.6	350.0
35°	4849.8	3754.0	1011.4	396.7	359.0	333.0	315.9	296.2	275.5	264.7	262.1
37.5°	4896.5	3559.3	724.2	367.1	324.9	295.3	263.0	228.0	198.3	190.3	190.3
40°	4981.8	3358.3	535.8	343.7	298.0	261.2	212.7	166.9	140.0	135.5	135.5
42.5°	5116.4	3146.5	427.2	323.1	274.6	226.2	162.4	121.2	101.4	98.7	97.8
45°	5256.4	2913.1	373.3	303.3	249.5	185.8	120.3	89.7	78.1	75.4	75.4
47.5°	5396.4	2664.5	347.3	284.5	225.3	144.5	89.7	70.9	65.5	65.5	66.4
50°	5514.9	2405.2	328.5	263.9	193.9	109.5	70.9	60.1	58.3	61.9	62.8
52.5°	5544.5	2150.3	305.1	237.8	155.3	83.5	58.3	52.9	52.9	52.9	52.9
55°	5526.5	1952.9	274.6	205.5	114.9	66.4	50.3	46.7	45.8	45.8	45.8
57.5°	5587.5	1836.2	219.9	159.7	82.6	53.8	44.0	41.3	39.5	38.6	38.6
60°	5710.5	1759.9	157.1	114.9	61.9	44.9	37.7	35.0	32.3	30.5	30.5
62.5°	5873.8	1693.5	116.7	85.3	47.6	35.9	31.4	28.7	25.1	23.3	23.3
65°	5999.5	1575.0	88.8	63.7	35.9	28.7	24.2	23.3	17.9	16.2	15.3
67.5°	5807.4	1314.8	71.8	46.7	26.9	22.4	18.8	17.9	10.8	9.0	9.0
70°	4980.9	915.4	57.4	34.1	19.7	17.9	15.3	11.7	8.1	7.2	7.2
71°	4516.9	764.6	52.1	28.7	17.1	17.1	14.4	9.9	7.2	6.3	6.3
72.5°	3752.3	543.0	44.0	22.4	15.3	17.9	15.3	9.0	7.2	6.3	5.4
75°	2178.1	227.1	30.5	15.3	11.7	21.5	19.7	8.1	5.4	4.5	4.5
77.5°	655.1	83.5	17.1	9.9	9.0	18.8	22.4	7.2	2.7	0.9	0.9
80°	119.4	35.9	10.8	6.3	6.3	11.7	17.1	3.6	0.0	0.0	0.0
82.5°	42.2	17.9	6.3	3.6	2.7	5.4	8.1	0.0	0.0	0.0	0.0
85°	24.2	12.6	3.6	1.8	0.0	0.9	1.8	0.0	0.0	0.0	0.0
87.5°	16.2	3.6	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)