

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: P454449

Luminaire Tested: **GALN-SA5C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25353 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

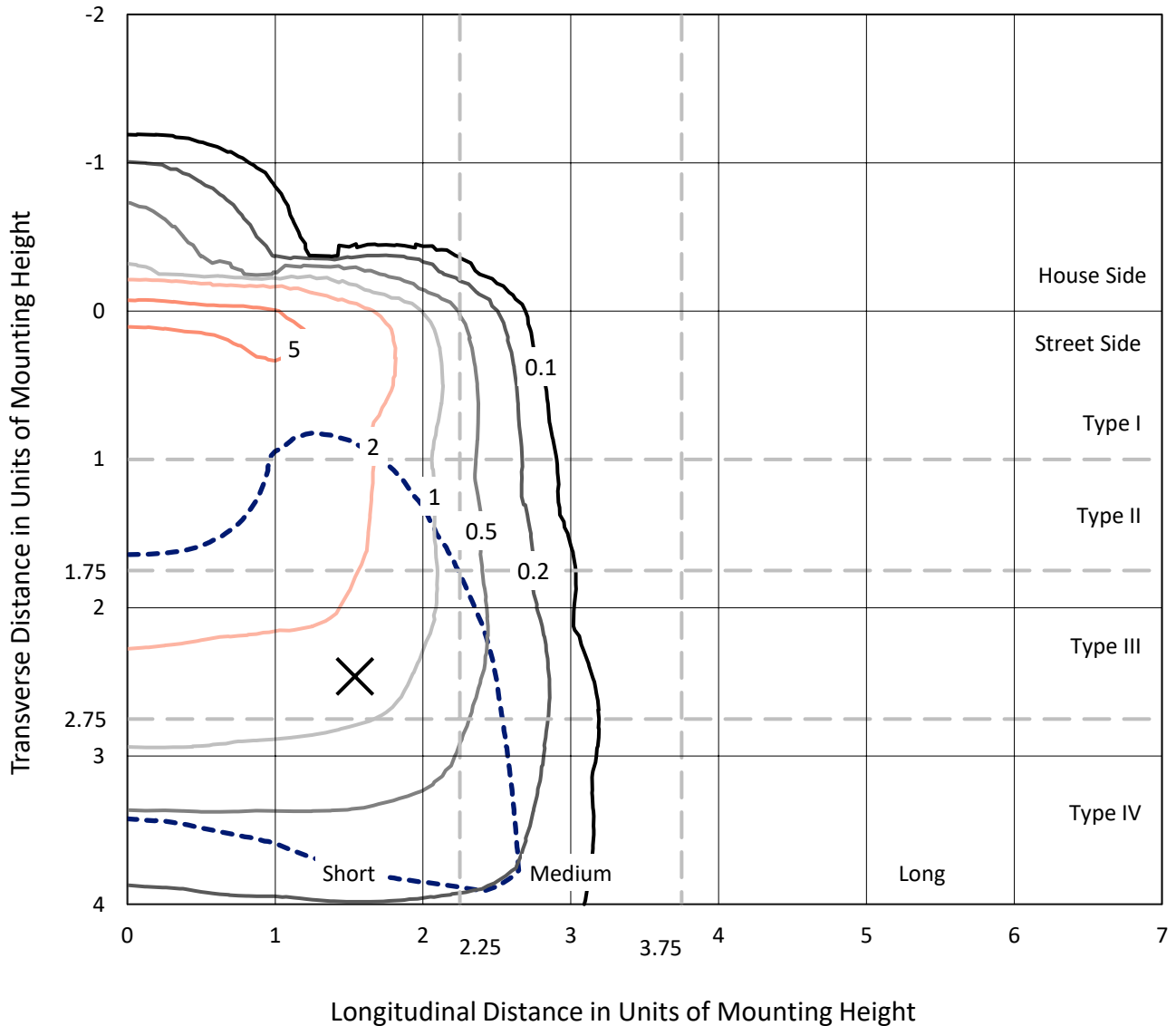
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

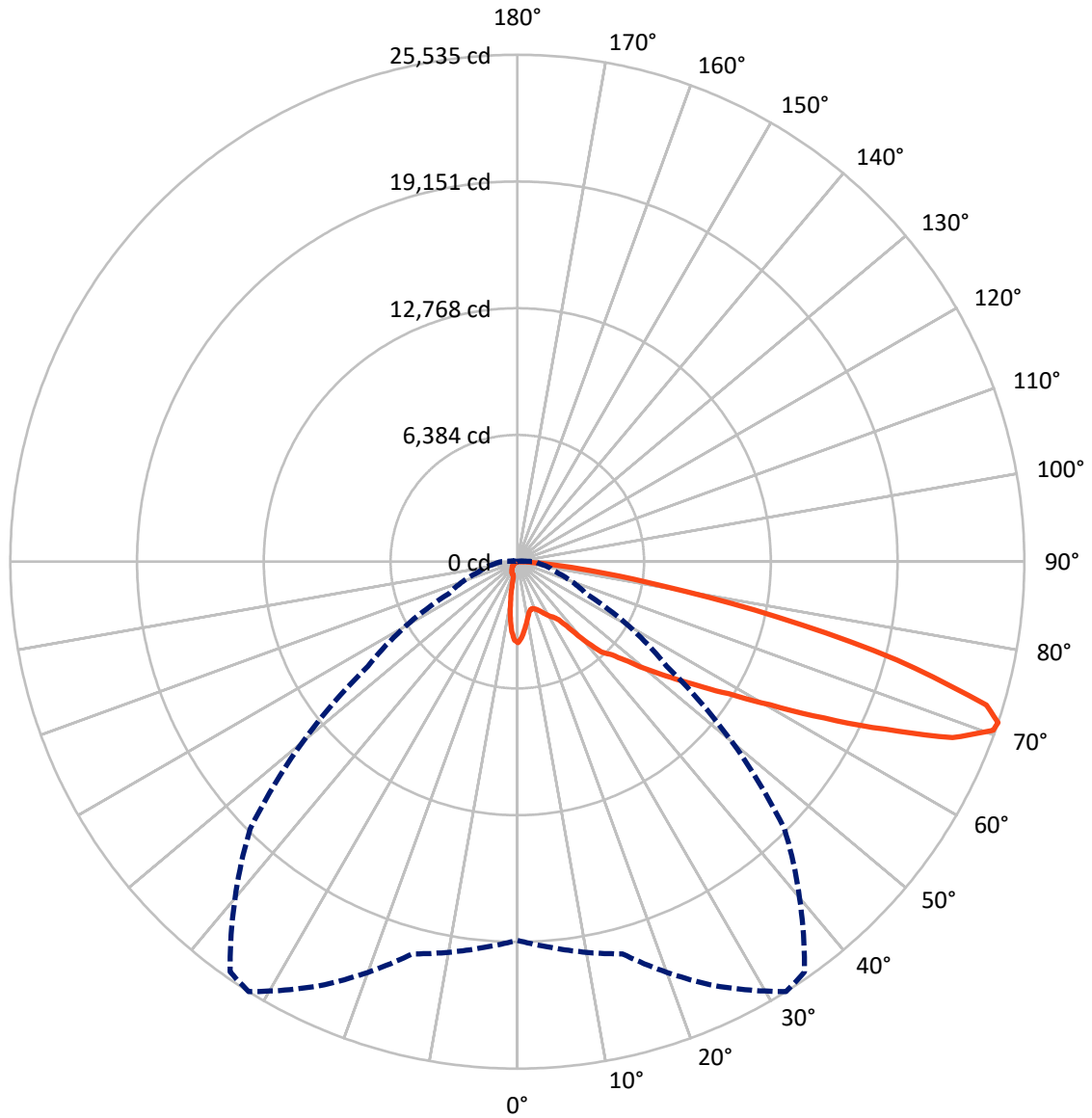
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2123.6	0.0	2123.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23229.4	0.0	23229.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25353.0	0.0	25353.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.5	1.3
10°-20°	719.5	2.8
20°-30°	1119.3	4.4
30°-40°	1864.8	7.4
40°-50°	3468.9	13.7
50°-60°	5569.5	22.0
60°-70°	7491.2	29.5
70°-80°	4444.6	17.5
80°-90°	343.5	1.4
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°	25353.0	100.0
0°-180°	25353.0	100.0



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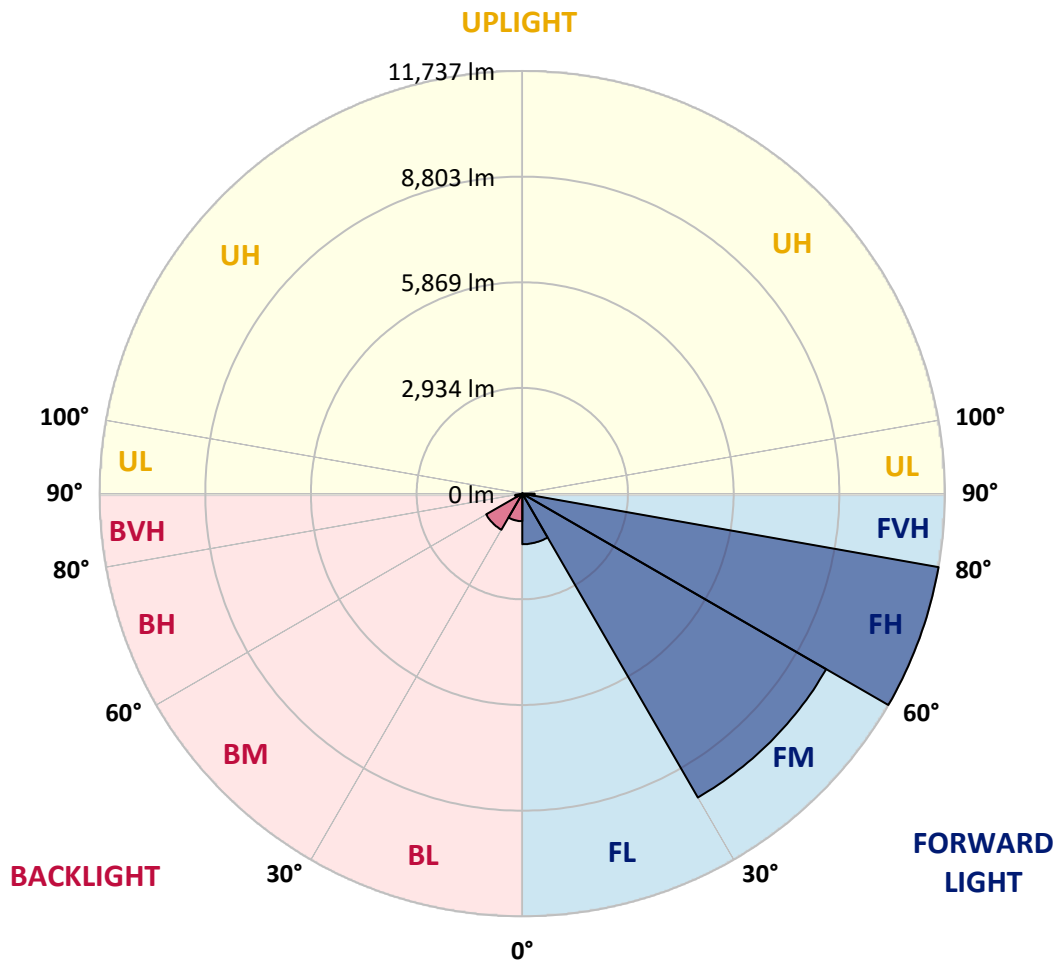
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.2	5.5			
FM (30°-60°)	9744.8	38.4			
FH (60°-80°)	11737.2	46.3			G4/12000
FVH (80°-90°)	342.2	1.3			G3/500
BL (0°-30°)	765.2	3.0	B2/1000		
BM (30°-60°)	1158.5	4.6	B2/2500		
BH (60°-80°)	198.6	0.8	B1/500		G1/500
BVH (80°-90°)	1.3	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2
2.5°	3781.3	3820.3	3814.4	3828.1	3861.1	3874.8	3911.7	3952.6	4009.0	4048.0	4073.3
5°	3386.3	3415.5	3419.4	3487.5	3520.6	3557.5	3666.5	3785.2	3917.6	4022.7	4092.7
7.5°	2964.0	2979.5	3010.7	3100.2	3183.9	3220.9	3386.3	3592.6	3800.8	3997.4	4123.9
10°	2615.6	2633.1	2689.6	2784.9	2862.8	2911.4	3141.1	3399.9	3691.8	3983.7	4168.6
12.5°	2417.1	2426.8	2448.2	2533.9	2633.1	2685.7	2932.8	3228.6	3604.2	3989.6	4244.5
15°	2403.5	2399.6	2374.3	2409.3	2498.8	2553.3	2794.7	3111.9	3526.4	4009.0	4334.0
17.5°	2475.5	2465.8	2405.4	2405.4	2479.4	2524.1	2736.3	3049.6	3487.5	4053.8	4460.5
20°	2586.4	2570.8	2471.6	2463.8	2535.8	2582.5	2771.3	3053.5	3495.3	4137.5	4629.9
22.5°	2726.5	2709.0	2559.2	2563.1	2640.9	2687.6	2872.5	3123.6	3543.9	4240.6	4810.9
25°	2909.5	2890.0	2712.9	2705.1	2786.9	2827.7	3022.4	3248.1	3612.0	4369.1	5048.3
27.5°	3152.7	3111.9	2899.7	2888.1	2975.6	3028.2	3203.3	3415.5	3732.7	4546.2	5367.4
30°	3353.2	3308.4	3106.0	3074.9	3168.3	3209.2	3390.2	3641.2	3970.1	4855.6	5809.2
32.5°	3615.9	3549.8	3312.3	3230.6	3329.8	3382.4	3660.7	4061.6	4322.4	5182.6	6334.7
35°	4207.5	4166.7	3876.7	3590.6	3584.8	3651.0	4059.6	4485.8	4684.4	5692.5	7050.9
37.5°	5054.1	5024.9	4717.4	4334.0	4223.1	4192.0	4544.2	4952.9	5262.4	6393.1	7883.8
40°	6036.9	5968.8	5686.6	5361.6	5217.6	5126.1	5116.4	5647.7	6017.5	7344.7	8751.8
42.5°	6741.4	6616.9	6274.3	6251.0	6219.9	6124.5	5848.1	6663.6	6992.5	8368.4	9680.1
45°	7481.0	7292.2	6782.3	6694.7	6683.0	6677.2	6953.5	7866.3	8055.1	9477.7	10633.7
47.5°	8055.1	7905.2	7486.8	7447.9	7496.5	7628.9	8415.1	9143.0	9104.0	10466.3	11433.6
50°	8819.9	8707.0	8241.9	8315.8	8566.9	8782.9	10063.5	10534.4	9966.2	11244.8	12015.5
52.5°	9722.9	9514.7	9082.6	9283.1	9668.4	10028.4	11813.1	11752.7	10571.4	11830.6	12449.4
55°	10505.3	10357.3	10209.4	10417.7	10993.7	11443.3	13393.3	12665.5	11011.2	12301.5	12640.2
57.5°	11828.6	11793.6	11641.8	11853.9	12552.6	13019.7	14808.2	13373.9	11293.4	12546.7	12416.4
60°	13786.4	13730.0	13447.8	13718.3	14629.1	15362.8	16112.1	14010.2	11357.7	12451.4	11772.2
62.5°	16141.3	15948.6	15707.3	16106.2	17355.7	17678.7	17340.1	14387.8	11118.3	11692.4	10219.2
65°	18340.4	18141.9	18147.7	18988.5	20348.8	20568.7	18772.4	14331.4	10417.7	9791.0	7537.4
67.5°	20023.8	19990.7	20228.2	21868.7	23647.5	23495.7	20053.0	13486.7	8341.1	6346.4	4005.2
70°	20109.4	20173.7	20854.8	23624.2	25430.2	25188.9	19944.0	10962.6	5200.1	2919.2	1578.3
71°	19074.1	19506.1	20448.1	23569.7	25535.3	25221.9	19025.4	9181.9	3814.4	2035.7	1138.5
72.5°	16254.1	16481.8	18517.5	22182.1	24704.3	24034.8	16695.9	6435.9	2442.4	1245.5	653.9
75°	8952.2	9512.7	12400.8	17402.4	19759.1	19171.4	10880.9	3057.4	1218.3	681.1	270.5
77.5°	4262.0	4153.1	6050.5	10349.6	13397.2	13366.1	5482.3	1358.4	710.3	461.2	136.2
80°	1218.3	1370.1	2315.9	4919.8	7438.1	7519.9	2105.7	655.8	492.4	360.0	70.1
82.5°	367.8	375.6	850.5	2175.8	3699.6	3487.5	790.1	334.7	354.2	286.1	40.9
85°	64.2	79.8	251.1	766.8	1410.9	1070.4	198.5	159.6	233.5	188.8	23.4
87.5°	3.9	5.8	83.7	87.6	124.6	72.0	35.0	23.4	50.6	50.6	13.6
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°	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2
2.5°	4090.8	4102.5	4094.7	4077.2	4048.0	4012.9	3966.2	3927.3	3894.2	3876.7	3898.1
5°	4116.1	4131.7	4092.7	4005.2	3872.8	3728.8	3565.3	3438.8	3339.6	3308.4	3296.8
7.5°	4155.0	4164.7	4059.6	3865.0	3584.8	3244.2	2946.5	2695.4	2500.8	2442.4	2356.8
10°	4205.6	4199.8	4001.3	3639.3	3146.9	2635.1	2173.8	1831.3	1572.5	1479.1	1471.3
12.5°	4283.4	4252.3	3927.3	3331.8	2625.3	1955.9	1385.7	1084.0	920.5	866.0	854.4
15°	4380.8	4306.8	3810.5	2971.8	2010.4	1263.0	854.4	762.9	741.5	737.6	733.7
17.5°	4495.6	4378.8	3656.8	2530.0	1412.9	819.3	714.2	712.3	714.2	710.3	708.4
20°	4651.3	4454.7	3473.9	2006.5	934.1	690.9	681.1	681.1	683.1	681.1	681.1
22.5°	4816.7	4544.2	3248.1	1531.6	704.5	655.8	653.9	657.8	661.7	659.7	659.7
25°	5021.0	4661.0	2950.3	1049.0	630.5	626.7	628.6	636.4	644.2	646.1	644.2
27.5°	5316.8	4805.0	2631.2	722.0	578.0	581.9	601.4	620.8	632.5	634.4	634.4
30°	5649.6	4964.6	2214.7	585.8	535.2	535.2	558.5	595.5	620.8	624.7	626.7
32.5°	6077.8	5149.5	1753.5	527.4	494.3	490.4	511.8	556.6	603.3	616.9	616.9
35°	6607.1	5367.4	1303.9	490.4	465.1	455.4	467.1	504.0	564.4	603.3	607.2
37.5°	7228.0	5573.7	953.6	457.3	437.9	424.3	432.0	461.2	509.9	568.3	583.8
40°	7802.1	5756.7	712.3	430.1	410.6	400.9	406.7	420.4	461.2	515.7	525.5
42.5°	8428.7	5898.7	566.3	400.9	383.4	379.5	379.5	385.3	412.6	443.7	445.7
45°	9053.4	5949.3	474.9	365.9	354.2	358.1	356.1	352.3	363.9	360.0	360.0
47.5°	9499.1	5889.0	393.1	332.8	332.8	338.6	328.9	315.3	309.4	286.1	288.0
50°	9804.6	5669.1	323.1	293.9	309.4	317.2	297.8	276.4	254.9	229.6	223.8
52.5°	9931.1	5277.9	264.7	243.3	274.4	284.1	260.8	235.5	202.4	181.0	175.2
55°	9849.4	4795.3	219.9	198.5	231.6	243.3	219.9	190.7	153.7	130.4	126.5
57.5°	9489.4	4219.2	186.8	157.6	184.9	192.7	177.1	146.0	109.0	85.6	85.6
60°	8866.6	3623.7	151.8	124.6	138.2	149.9	134.3	105.1	74.0	52.5	48.7
62.5°	7603.6	2942.6	122.6	97.3	97.3	107.0	93.4	75.9	46.7	27.2	25.3
65°	5490.1	2018.1	97.3	72.0	70.1	70.1	58.4	50.6	27.2	11.7	7.8
67.5°	2983.4	1138.5	77.8	54.5	48.7	46.7	37.0	29.2	11.7	1.9	0.0
70°	1173.5	437.9	60.3	37.0	31.1	29.2	19.5	13.6	7.8	0.0	0.0
71°	796.0	301.7	52.5	31.1	25.3	21.4	15.6	11.7	5.8	0.0	0.0
72.5°	455.4	186.8	40.9	23.4	19.5	15.6	11.7	7.8	5.8	0.0	0.0
75°	198.5	95.4	25.3	17.5	13.6	9.7	7.8	5.8	1.9	0.0	0.0
77.5°	101.2	52.5	17.5	13.6	7.8	5.8	3.9	1.9	0.0	0.0	0.0
80°	56.4	27.2	11.7	7.8	5.8	3.9	1.9	1.9	0.0	0.0	0.0
82.5°	31.1	15.6	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.5	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.9	0.0	0.0	0.0	0.0	1.9	1.9	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)