

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: P459205

Luminaire Tested: **GALN-SA6D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459205  
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-SA6D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA 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: 30772 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

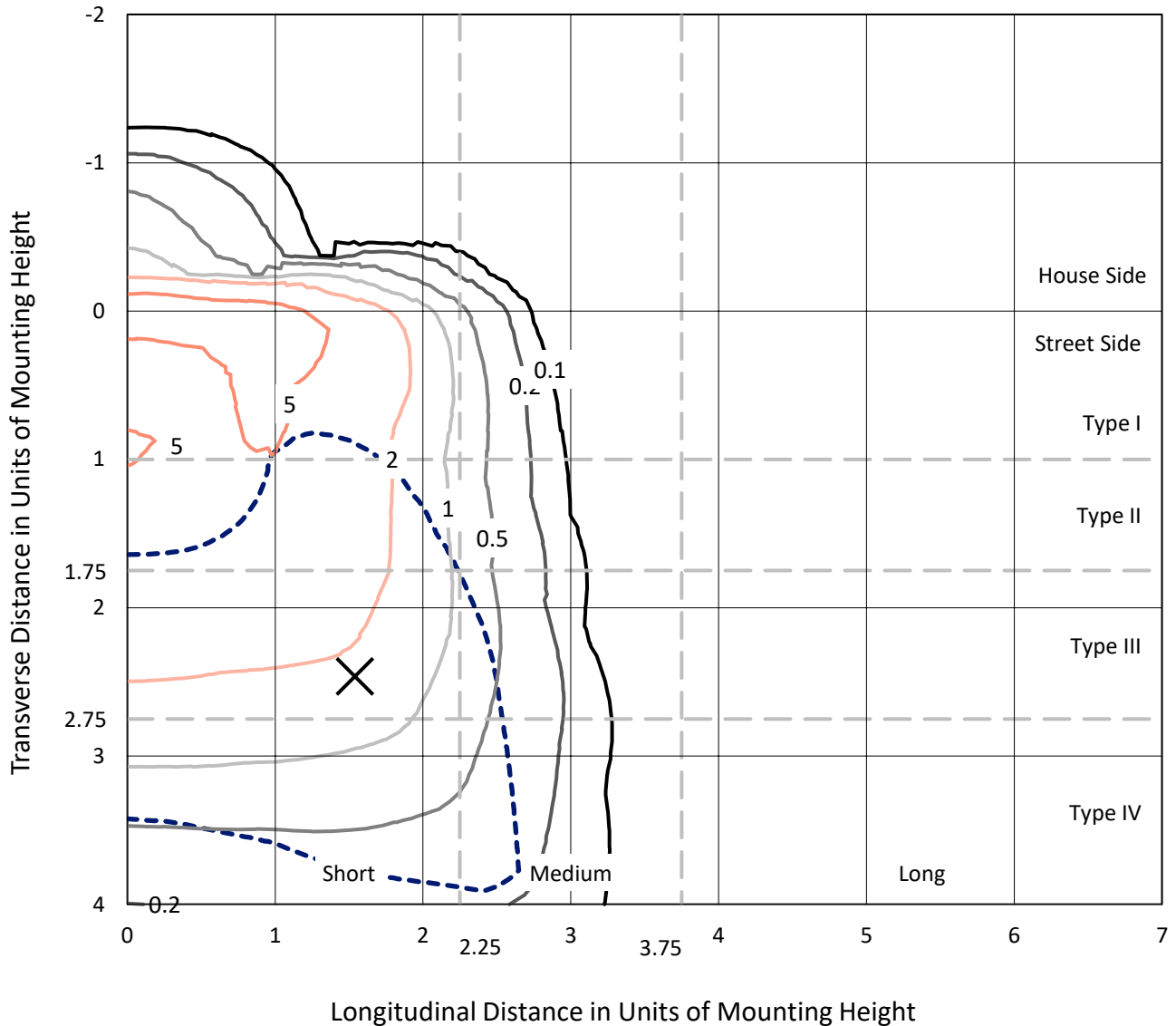
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

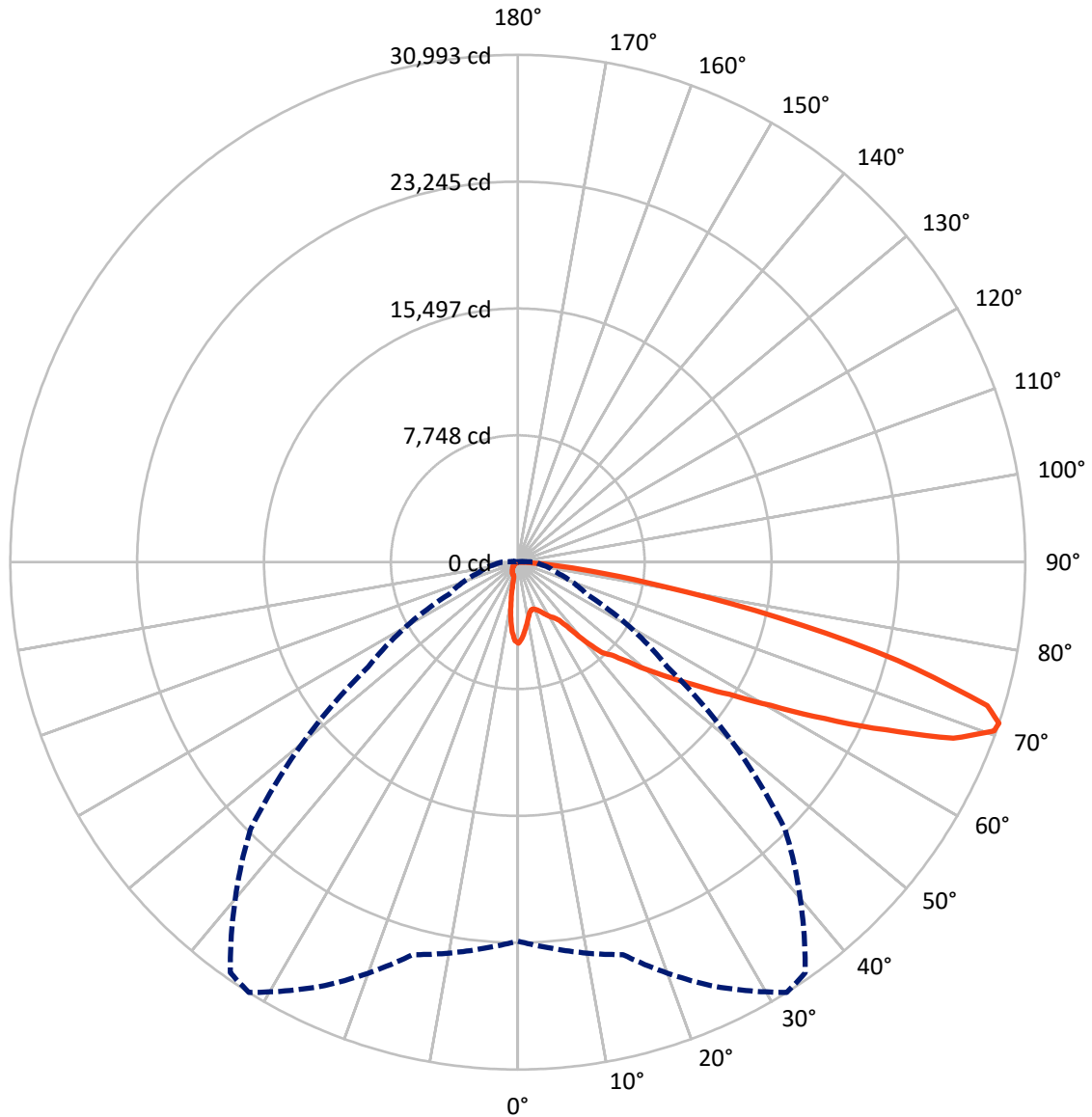
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	2577.5	0.0	2577.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	28194.5	0.0	28194.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	30772.0	0.0	30772.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.4	1.3
10°-20°	873.3	2.8
20°-30°	1358.6	4.4
30°-40°	2263.4	7.4
40°-50°	4210.4	13.7
50°-60°	6759.9	22.0
60°-70°	9092.4	29.5
70°-80°	5394.6	17.5
80°-90°	417.0	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°	30772.0	100.0
0°-180°	30772.0	100.0

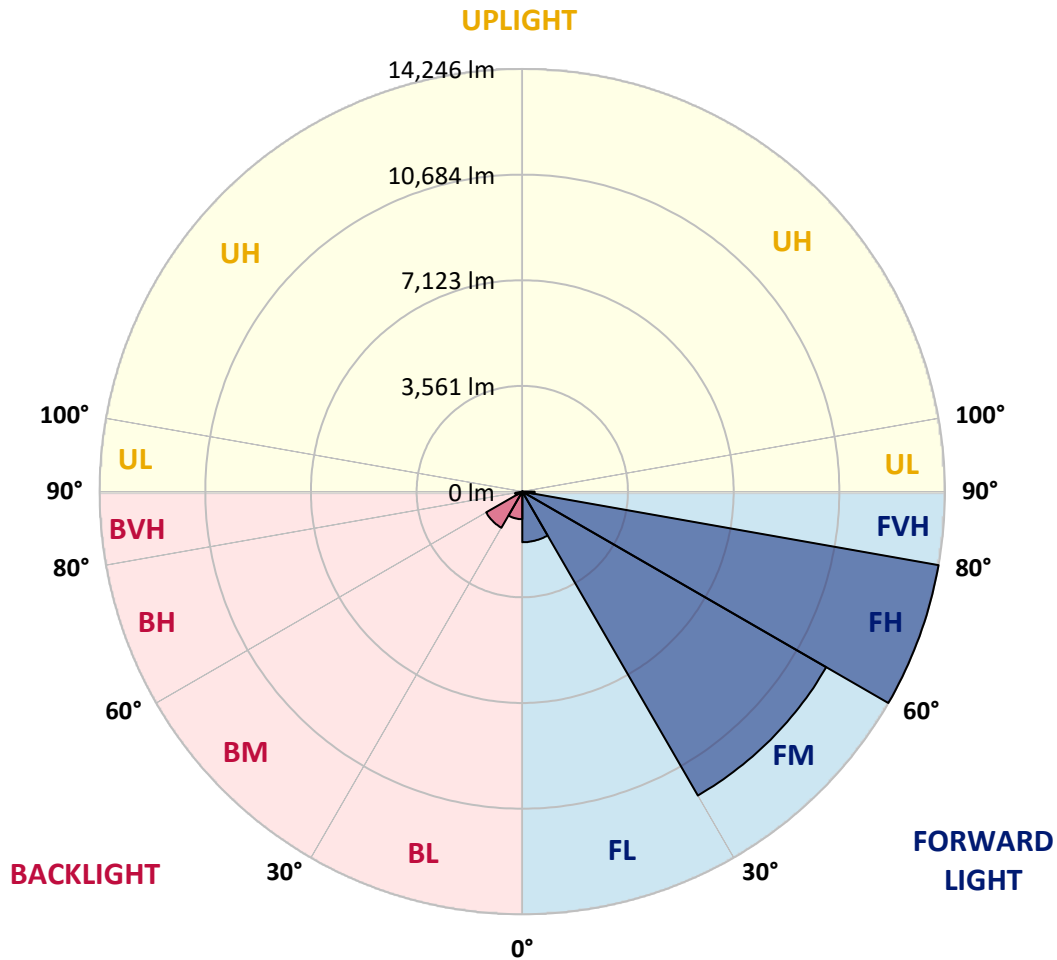


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1705.6	5.5			
FM	(30°-60°)	11827.6	38.4			
FH	(60°-80°)	14245.9	46.3			G5
FVH	(80°-90°)	415.4	1.3			G3/500
BL	(0°-30°)	928.7	3.0	B2/1000		
BM	(30°-60°)	1406.1	4.6	B2/2500		
BH	(60°-80°)	241.1	0.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6
2.5°	4589.6	4636.8	4629.7	4646.3	4686.4	4703.0	4747.8	4797.4	4865.9	4913.2	4943.9
5°	4110.1	4145.5	4150.2	4232.9	4273.1	4317.9	4450.2	4594.3	4754.9	4882.5	4967.5
7.5°	3597.5	3616.4	3654.2	3762.8	3864.4	3909.3	4110.1	4360.5	4613.2	4851.8	5005.3
10°	3174.7	3195.9	3264.4	3380.2	3474.7	3533.7	3812.4	4126.6	4480.9	4835.2	5059.6
12.5°	2933.7	2945.5	2971.5	3075.5	3195.9	3259.7	3559.7	3918.7	4374.6	4842.3	5151.8
15°	2917.2	2912.5	2881.8	2924.3	3032.9	3099.1	3392.0	3777.0	4280.1	4865.9	5260.4
17.5°	3004.6	2992.8	2919.6	2919.6	3009.3	3063.7	3321.1	3701.4	4232.9	4920.3	5414.0
20°	3139.2	3120.3	2999.9	2990.4	3077.8	3134.5	3363.6	3706.1	4242.3	5021.8	5619.5
22.5°	3309.3	3288.1	3106.2	3110.9	3205.4	3262.1	3486.5	3791.2	4301.4	5147.0	5839.1
25°	3531.4	3507.7	3292.8	3283.3	3382.5	3432.1	3668.4	3942.4	4384.1	5302.9	6127.3
27.5°	3826.6	3777.0	3519.5	3505.4	3611.7	3675.4	3888.0	4145.5	4530.5	5517.9	6514.7
30°	4069.9	4015.6	3769.9	3732.1	3845.5	3895.1	4114.8	4419.5	4818.7	5893.5	7050.9
32.5°	4388.8	4308.5	4020.3	3921.1	4041.6	4105.3	4443.1	4929.7	5246.2	6290.3	7688.7
35°	5106.9	5057.3	4705.3	4358.1	4351.0	4431.3	4927.4	5444.7	5685.6	6909.2	8557.9
37.5°	6134.4	6099.0	5725.8	5260.4	5125.8	5088.0	5515.5	6011.6	6387.1	7759.5	9568.9
40°	7327.3	7244.6	6902.1	6507.6	6332.8	6221.8	6210.0	6854.8	7303.6	8914.6	10622.4
42.5°	8182.3	8031.2	7615.4	7587.1	7549.3	7433.6	7098.1	8087.9	8487.1	10157.1	11749.1
45°	9079.9	8850.8	8231.9	8125.7	8111.5	8104.4	8439.8	9547.6	9776.8	11503.5	12906.6
47.5°	9776.8	9594.9	9087.0	9039.8	9098.8	9259.5	10213.8	11097.2	11049.9	12703.4	13877.4
50°	10705.1	10568.1	10003.5	10093.3	10398.0	10660.2	12214.5	12786.1	12096.4	13648.3	14583.7
52.5°	11801.1	11548.4	11024.0	11267.3	11735.0	12171.9	14338.0	14264.8	12831.0	14359.3	15110.4
55°	12750.7	12571.1	12391.6	12644.4	13343.6	13889.2	16256.0	15372.6	13364.8	14930.9	15341.9
57.5°	14356.9	14314.4	14130.1	14387.6	15235.6	15802.5	17973.3	16232.4	13707.3	15228.5	15070.3
60°	16733.2	16664.7	16322.2	16650.5	17756.0	18646.5	19555.9	17004.8	13785.3	15112.8	14288.4
62.5°	19591.3	19357.5	19064.6	19548.8	21065.3	21457.4	21046.4	17463.1	13494.7	14191.6	12403.4
65°	22260.5	22019.6	22026.7	23047.1	24698.2	24965.1	22784.9	17394.6	12644.4	11883.8	9148.4
67.5°	24303.7	24263.6	24551.8	26543.0	28702.0	28517.7	24339.2	16369.4	10124.0	7702.8	4861.2
70°	24407.7	24485.6	25312.4	28673.6	30865.7	30572.8	24206.9	13305.8	6311.6	3543.2	1915.7
71°	23151.0	23675.4	24818.7	28607.5	30993.2	30612.9	23092.0	11144.4	4629.7	2470.8	1381.8
72.5°	19728.3	20004.7	22475.5	26923.3	29984.6	29172.0	20264.5	7811.5	2964.4	1511.7	793.7
75°	10865.7	11546.0	15051.4	21122.0	23982.5	23269.1	13206.6	3710.9	1478.7	826.7	328.3
77.5°	5173.0	5040.7	7343.8	12561.7	16260.8	16223.0	6654.1	1648.8	862.2	559.8	165.3
80°	1478.7	1662.9	2810.9	5971.4	9028.0	9127.2	2555.8	796.0	597.6	437.0	85.0
82.5°	446.4	455.9	1032.2	2640.8	4490.4	4232.9	959.0	406.3	429.9	347.2	49.6
85°	77.9	96.8	304.7	930.7	1712.5	1299.2	240.9	193.7	283.5	229.1	28.3
87.5°	4.7	7.1	101.6	106.3	151.2	87.4	42.5	28.3	61.4	61.4	16.5
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°	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6	4948.6
2.5°	4965.2	4979.3	4969.9	4948.6	4913.2	4870.7	4814.0	4766.7	4726.6	4705.3	4731.3
5°	4995.9	5014.8	4967.5	4861.2	4700.6	4525.8	4327.4	4173.8	4053.4	4015.6	4001.4
7.5°	5043.1	5054.9	4927.4	4691.1	4351.0	3937.6	3576.2	3271.5	3035.3	2964.4	2860.5
10°	5104.5	5097.4	4856.5	4417.1	3819.5	3198.3	2638.5	2222.7	1908.6	1795.2	1785.8
12.5°	5199.0	5161.2	4766.7	4043.9	3186.5	2373.9	1681.8	1315.7	1117.3	1051.1	1037.0
15°	5317.1	5227.3	4625.0	3606.9	2440.1	1533.0	1037.0	925.9	900.0	895.2	890.5
17.5°	5456.5	5314.7	4438.4	3070.7	1714.9	994.4	866.9	864.5	866.9	862.2	859.8
20°	5645.4	5406.9	4216.4	2435.3	1133.8	838.5	826.7	826.7	829.1	826.7	826.7
22.5°	5846.2	5515.5	3942.4	1859.0	855.1	796.0	793.7	798.4	803.1	800.8	800.8
25°	6094.2	5657.3	3581.0	1273.2	765.3	760.6	763.0	772.4	781.9	784.2	781.9
27.5°	6453.3	5832.0	3193.6	876.3	701.5	706.3	729.9	753.5	767.7	770.0	770.0
30°	6857.2	6025.7	2688.1	711.0	649.6	649.6	677.9	722.8	753.5	758.2	760.6
32.5°	7376.9	6250.1	2128.3	640.1	600.0	595.3	621.2	675.6	732.3	748.8	748.8
35°	8019.4	6514.7	1582.6	595.3	564.5	552.7	566.9	611.8	685.0	732.3	737.0
37.5°	8772.9	6765.1	1157.4	555.1	531.5	514.9	524.4	559.8	618.9	689.7	708.6
40°	9469.7	6987.1	864.5	522.0	498.4	486.6	493.7	510.2	559.8	626.0	637.8
42.5°	10230.3	7159.6	687.4	486.6	465.3	460.6	460.6	467.7	500.8	538.6	540.9
45°	10988.5	7221.0	576.4	444.1	429.9	434.6	432.3	427.5	441.7	437.0	437.0
47.5°	11529.5	7147.7	477.1	403.9	403.9	411.0	399.2	382.7	375.6	347.2	349.6
50°	11900.3	6880.8	392.1	356.7	375.6	385.0	361.4	335.4	309.4	278.7	271.6
52.5°	12053.8	6406.0	321.2	295.3	333.1	344.9	316.5	285.8	245.7	219.7	212.6
55°	11954.6	5820.2	266.9	240.9	281.1	295.3	266.9	231.5	186.6	158.3	153.5
57.5°	11517.6	5121.1	226.8	191.3	224.4	233.8	215.0	177.2	132.3	103.9	103.9
60°	10761.8	4398.2	184.2	151.2	167.7	181.9	163.0	127.6	89.8	63.8	59.1
62.5°	9228.8	3571.5	148.8	118.1	118.1	129.9	113.4	92.1	56.7	33.1	30.7
65°	6663.5	2449.5	118.1	87.4	85.0	85.0	70.9	61.4	33.1	14.2	9.4
67.5°	3621.1	1381.8	94.5	66.1	59.1	56.7	44.9	35.4	14.2	2.4	0.0
70°	1424.4	531.5	73.2	44.9	37.8	35.4	23.6	16.5	9.4	0.0	0.0
71°	966.1	366.1	63.8	37.8	30.7	26.0	18.9	14.2	7.1	0.0	0.0
72.5°	552.7	226.8	49.6	28.3	23.6	18.9	14.2	9.4	7.1	0.0	0.0
75°	240.9	115.7	30.7	21.3	16.5	11.8	9.4	7.1	2.4	0.0	0.0
77.5°	122.8	63.8	21.3	16.5	9.4	7.1	4.7	2.4	0.0	0.0	0.0
80°	68.5	33.1	14.2	9.4	7.1	4.7	2.4	2.4	0.0	0.0	0.0
82.5°	37.8	18.9	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.6	11.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	4.7	0.0	0.0	0.0	0.0	2.4	2.4	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)