

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: P455576

Luminaire Tested: **GALN-SA6D-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30672 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

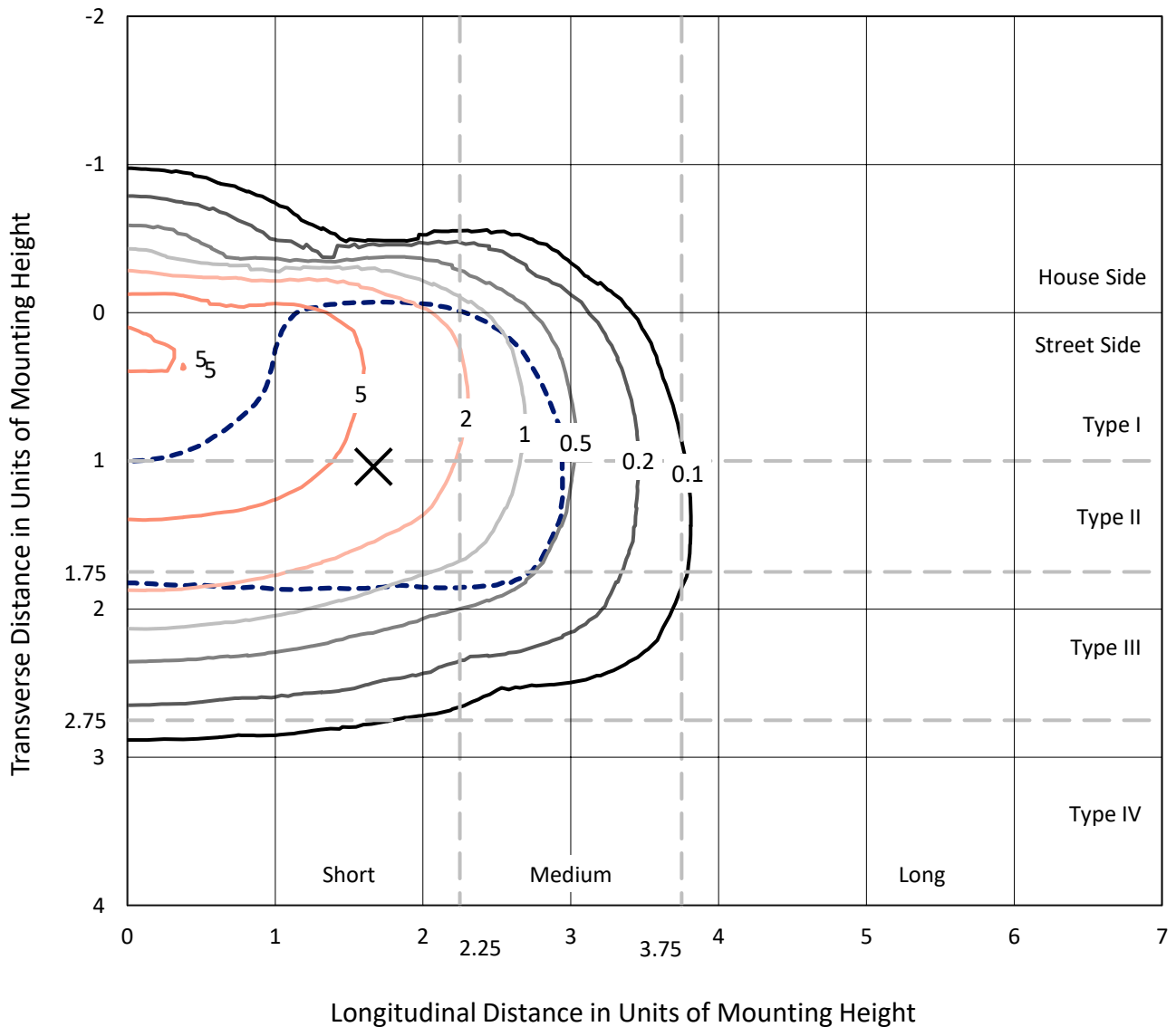
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

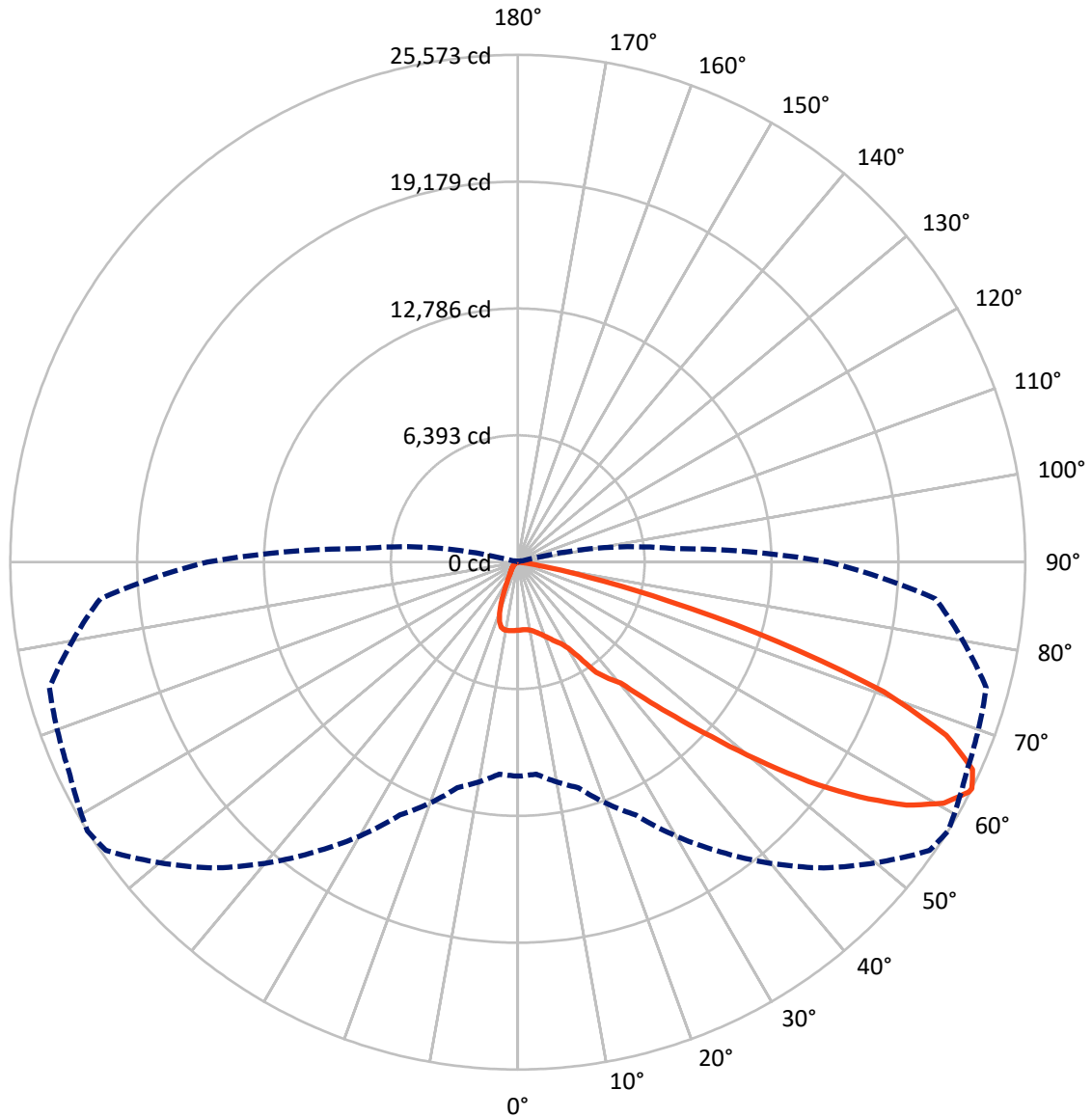
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3175.9	0.0	3175.9
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	27496.1	0.0	27496.1
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	30672.0	0.0	30672.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.4	1.0
10°-20°	875.5	2.9
20°-30°	1519.5	5.0
30°-40°	2792.3	9.1
40°-50°	5256.4	17.1
50°-60°	8990.7	29.3
60°-70°	8608.6	28.1
70°-80°	2195.2	7.2
80°-90°	112.2	0.4
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°	30672.0	100.0
0°-180°	30672.0	100.0

**Coefficient of Utilization**



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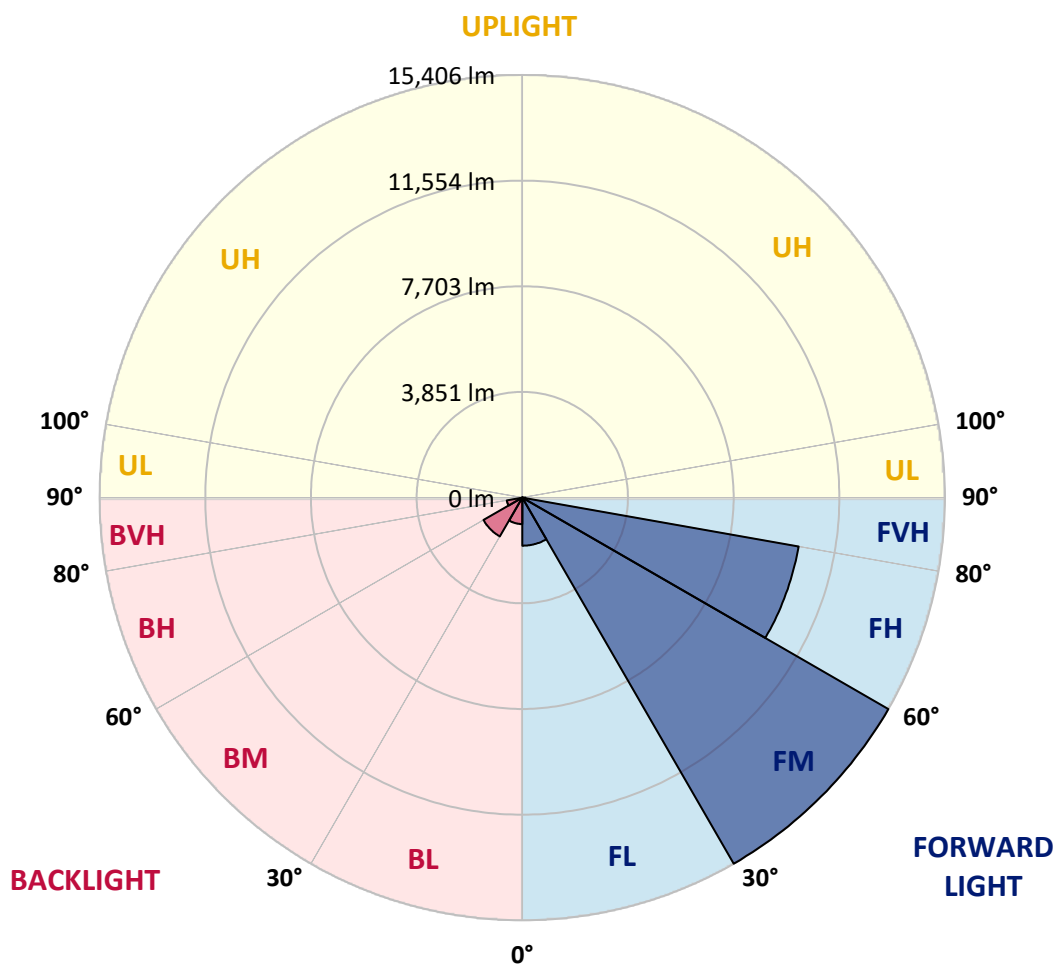
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1753.3	5.7			
FM	(30°-60°)	15405.9	50.2			
FH	(60°-80°)	10228.9	33.3			G4/12000
FVH	(80°-90°)	107.9	0.4			G2/225
BL	(0°-30°)	963.2	3.1	B2/1000		
BM	(30°-60°)	1633.5	5.3	B2/2500		
BH	(60°-80°)	574.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8
2.5°	3348.4	3360.0	3371.5	3376.1	3392.3	3408.4	3420.0	3417.7	3436.2	3445.4	3445.4
5°	3214.5	3214.5	3244.5	3272.2	3318.4	3364.6	3408.4	3417.7	3452.3	3484.7	3496.2
7.5°	3101.3	3108.2	3131.3	3182.1	3244.5	3325.3	3413.1	3433.8	3493.9	3565.5	3595.5
10°	3048.2	3052.8	3082.8	3136.0	3214.5	3325.3	3447.7	3487.0	3579.3	3692.5	3734.1
12.5°	3036.7	3043.6	3073.6	3133.6	3223.7	3357.6	3523.9	3565.5	3699.4	3844.9	3907.2
15°	3057.4	3062.1	3092.1	3156.7	3256.0	3415.4	3625.5	3683.2	3842.6	4011.2	4092.0
17.5°	3131.3	3126.7	3147.5	3200.6	3311.5	3487.0	3747.9	3817.2	4004.2	4235.2	4288.3
20°	3445.4	3415.4	3396.9	3350.7	3394.6	3588.6	3895.7	3997.3	4228.2	4463.8	4500.7
22.5°	4122.0	4055.0	3923.4	3743.3	3604.7	3727.1	4073.5	4191.3	4489.2	4720.1	4720.1
25°	4983.4	4897.9	4766.3	4373.7	4034.3	3955.7	4274.4	4422.2	4773.2	5006.4	4930.2
27.5°	6061.8	5994.8	5738.5	5281.2	4761.7	4355.2	4507.6	4643.9	5024.9	5306.6	5147.3
30°	6939.3	6907.0	6696.8	6288.1	5715.4	5121.9	4941.8	5031.8	5359.8	5685.4	5521.4
32.5°	7680.6	7680.6	7465.8	7084.8	6549.0	6022.5	5678.4	5743.1	6057.2	6433.6	6128.7
35°	8495.7	8468.0	8294.8	7932.3	7331.9	6867.7	6726.8	6814.6	7098.6	7378.0	6627.5
37.5°	9352.4	9343.2	9163.1	8812.1	8322.5	7738.3	7408.1	7431.2	7576.6	7747.5	7211.8
40°	10283.1	10296.9	10061.4	9844.3	9382.5	8784.4	8151.6	8006.2	8142.4	8625.0	8290.2
42.5°	11382.3	11349.9	11248.3	10952.8	10581.0	10223.0	9463.3	9410.2	9530.3	10047.5	9685.0
45°	12659.3	12705.5	12530.0	12366.0	12116.6	11818.7	11183.7	11091.3	11222.9	12026.6	11511.6
47.5°	13938.6	13894.7	14007.9	13977.9	14111.8	13890.1	13329.0	13139.6	13456.0	14218.0	13460.6
50°	14913.1	14961.6	15197.1	15541.2	16116.2	16240.9	15702.9	15638.2	15779.1	16268.6	15204.1
52.5°	15545.8	15707.5	16077.0	16961.4	17998.3	18804.2	18395.5	18360.8	18303.1	18434.7	16871.4
55°	15959.2	16123.2	16605.8	17908.2	19693.3	21002.6	21023.4	20875.6	20494.6	20399.9	18430.1
57.5°	15705.2	15737.5	16425.7	18166.8	20633.1	22570.6	23249.5	23101.7	22397.4	22039.4	19806.4
60°	14116.4	14183.4	15141.7	17187.7	20224.4	23083.2	24725.1	24658.1	23886.8	23482.7	20877.9
62.5°	11301.5	11495.4	12481.5	14763.0	18323.9	22219.6	25323.2	25512.6	24912.1	24355.6	21215.0
63°	10784.2	10721.8	11763.3	14056.4	17820.5	21792.4	25332.4	25572.6	24958.3	24438.8	21122.7
65°	7983.1	8170.1	8846.7	11084.4	14830.0	19804.1	24762.0	25186.9	24787.4	24071.6	20099.7
67.5°	4482.2	4473.0	5221.2	7253.3	10380.1	15534.3	22390.5	23288.7	23205.6	21600.7	16661.2
70°	2193.8	2228.4	2535.6	3759.5	6020.2	10717.2	18605.6	19575.5	19605.5	16966.0	11520.8
72.5°	993.0	1009.1	1228.5	1831.2	3094.4	5706.1	12820.9	13746.9	13576.1	10811.9	6362.0
75°	524.2	558.8	676.6	921.4	1491.8	2353.1	6973.9	7869.9	7512.0	4939.5	2341.6
77.5°	388.0	399.5	459.5	586.5	799.0	916.8	3008.9	3579.3	3353.0	1787.4	775.9
80°	284.0	293.3	341.8	415.7	503.4	466.5	1133.8	1300.1	1166.2	607.3	237.9
82.5°	173.2	175.5	249.4	309.4	316.4	260.9	374.1	401.8	420.3	341.8	129.3
85°	62.3	78.5	168.6	224.0	187.0	131.6	157.0	173.2	189.4	217.1	76.2
87.5°	6.9	9.2	80.8	108.5	53.1	48.5	57.7	64.7	69.3	80.8	36.9
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°	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8	3433.8
2.5°	3454.6	3463.9	3456.9	3445.4	3443.1	3436.2	3422.3	3422.3	3422.3	3426.9	3422.3
5°	3505.4	3512.4	3496.2	3473.1	3447.7	3415.4	3380.7	3360.0	3357.6	3353.0	3341.5
7.5°	3602.4	3611.7	3574.7	3519.3	3450.0	3371.5	3297.6	3228.3	3196.0	3170.6	3170.6
10°	3743.3	3752.5	3678.6	3579.3	3440.8	3281.4	3105.9	2946.6	2821.9	2764.2	2750.3
12.5°	3911.9	3916.5	3794.1	3620.9	3392.3	3085.2	2711.1	2362.4	2119.9	2009.0	1997.5
15°	4096.6	4064.3	3902.6	3637.1	3253.7	2681.0	2034.4	1607.2	1355.5	1281.6	1309.3
17.5°	4283.7	4223.6	3985.8	3611.7	2942.0	2034.4	1367.1	1096.9	1018.4	997.6	997.6
20°	4459.2	4376.0	4045.8	3500.8	2401.6	1401.7	1013.8	949.1	935.2	921.4	923.7
22.5°	4634.7	4507.6	4098.9	3253.7	1789.7	1002.2	907.5	886.8	868.3	849.8	847.5
25°	4805.5	4630.0	4119.7	2796.5	1219.3	861.3	829.0	801.3	764.4	743.6	739.0
27.5°	4983.4	4777.8	4105.8	2219.2	889.1	771.3	739.0	699.7	655.8	618.9	618.9
30°	5325.1	5059.6	4057.3	1595.7	748.2	678.9	637.4	575.0	526.5	489.6	487.3
32.5°	5791.6	5426.7	3891.1	1122.3	665.1	598.1	535.7	466.5	415.7	388.0	388.0
35°	6207.3	5796.2	3579.3	826.7	598.1	519.6	443.4	376.4	337.1	318.7	311.7
37.5°	6840.0	6336.6	3149.8	672.0	533.4	450.3	371.8	309.4	277.1	263.3	263.3
40°	7789.1	6997.0	2623.3	588.9	471.1	383.3	309.4	260.9	235.5	219.4	219.4
42.5°	8966.8	7805.3	2089.9	528.8	413.4	330.2	258.6	221.7	198.6	187.0	184.7
45°	10449.3	8657.4	1609.5	473.4	367.2	281.7	219.4	187.0	164.0	157.0	159.3
47.5°	11996.5	9407.9	1247.0	424.9	318.7	237.9	187.0	161.6	145.5	136.2	136.2
50°	13317.4	9925.1	946.8	369.5	281.7	200.9	164.0	145.5	131.6	127.0	124.7
52.5°	14421.2	10075.2	725.1	321.0	247.1	173.2	145.5	131.6	120.1	113.2	113.2
55°	15361.1	9943.6	568.1	270.2	207.8	150.1	129.3	117.8	103.9	97.0	94.7
57.5°	15910.7	9521.0	434.1	224.0	168.6	124.7	113.2	99.3	83.1	71.6	71.6
60°	16187.8	8906.8	332.5	184.7	129.3	99.3	92.4	73.9	57.7	48.5	46.2
62.5°	15855.3	8091.6	251.7	145.5	97.0	73.9	62.3	53.1	36.9	27.7	27.7
63°	15649.8	7856.1	242.5	138.6	90.1	69.3	57.7	48.5	32.3	25.4	23.1
65°	14266.5	6828.4	198.6	110.8	71.6	48.5	39.3	34.6	23.1	11.5	9.2
67.5°	11329.2	5223.5	157.0	83.1	50.8	34.6	23.1	20.8	6.9	0.0	0.0
70°	7659.8	3373.8	122.4	60.0	34.6	20.8	11.5	9.2	2.3	0.0	0.0
72.5°	3995.0	1729.6	94.7	43.9	20.8	13.9	6.9	2.3	0.0	0.0	0.0
75°	1413.3	588.9	69.3	27.7	13.9	6.9	2.3	0.0	0.0	0.0	0.0
77.5°	427.2	219.4	43.9	20.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	150.1	80.8	25.4	13.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	73.9	39.3	16.2	11.5	6.9	2.3	0.0	0.0	0.0	0.0	0.0
85°	41.6	25.4	13.9	11.5	6.9	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	30.0	18.5	13.9	11.5	9.2	4.6	2.3	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)