

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: P455348

Luminaire Tested: **GALN-SA6C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455348  
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-SA6C-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 27340 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

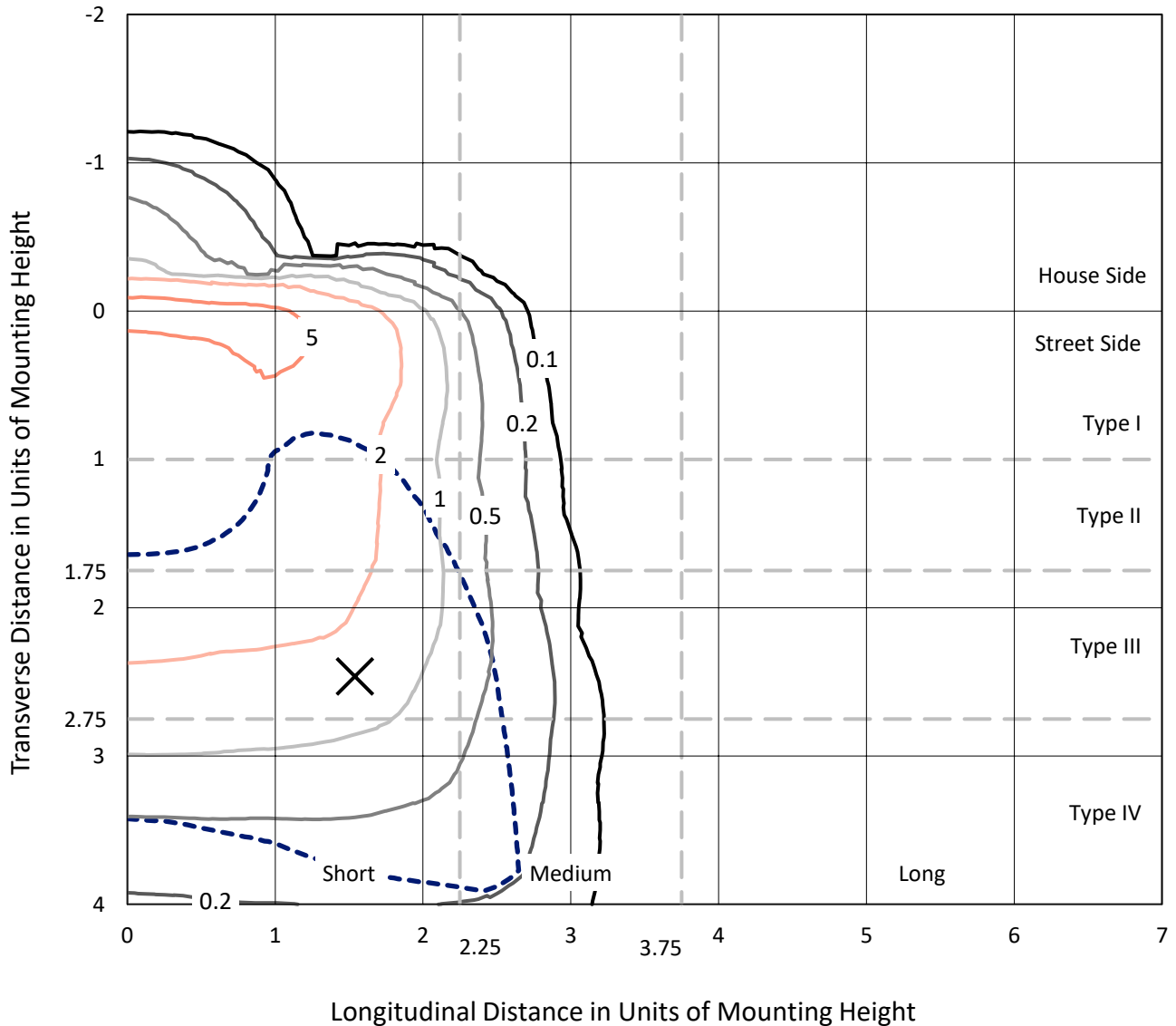
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

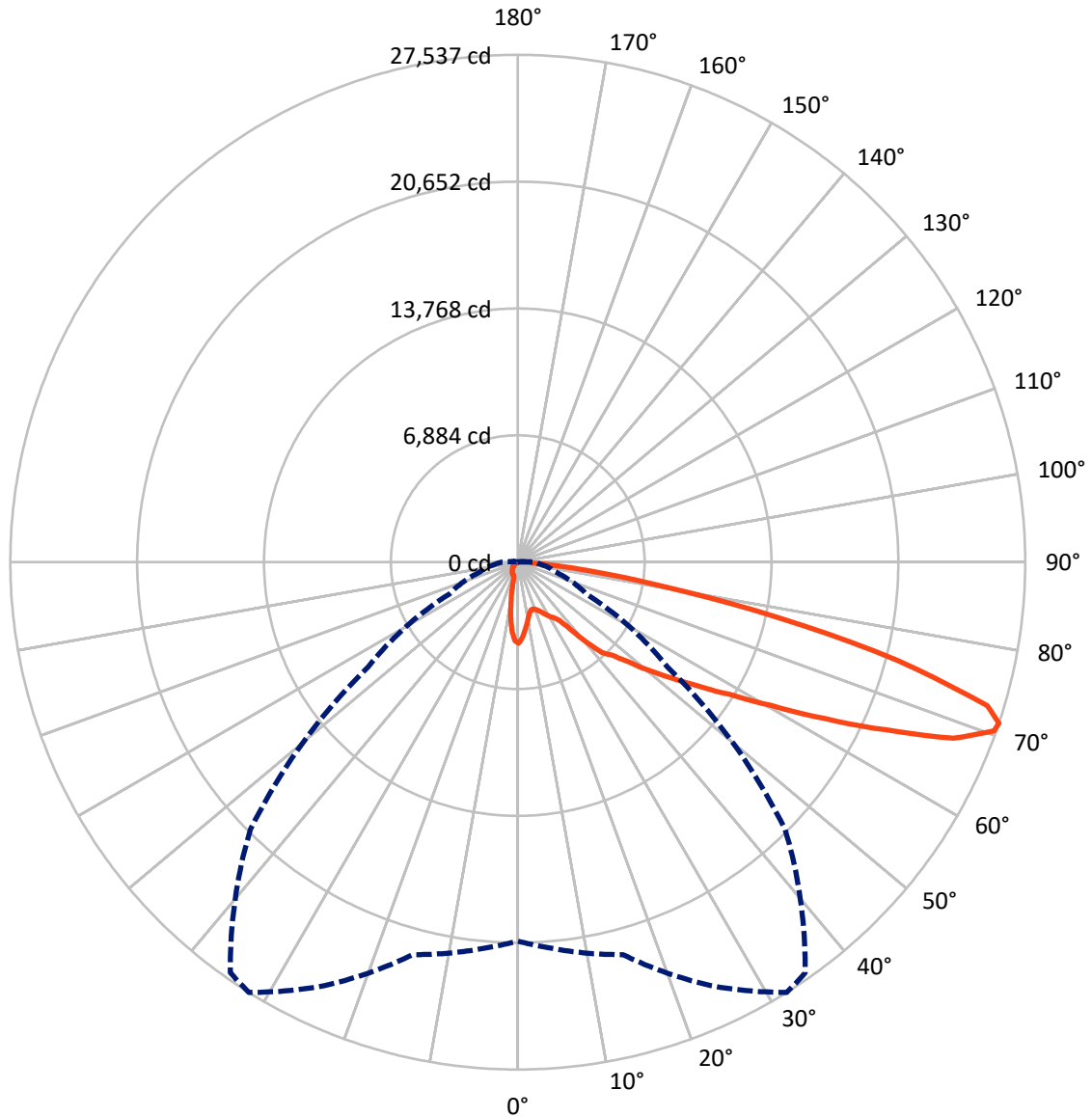
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2290.0	0.0	2290.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	25050.0	0.0	25050.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	27340.0	0.0	27340.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.5	1.3
10°-20°	775.9	2.8
20°-30°	1207.1	4.4
30°-40°	2011.0	7.4
40°-50°	3740.8	13.7
50°-60°	6006.0	22.0
60°-70°	8078.3	29.5
70°-80°	4793.0	17.5
80°-90°	370.5	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°	27340.0	100.0
0°-180°	27340.0	100.0

**Coefficient of Utilization**



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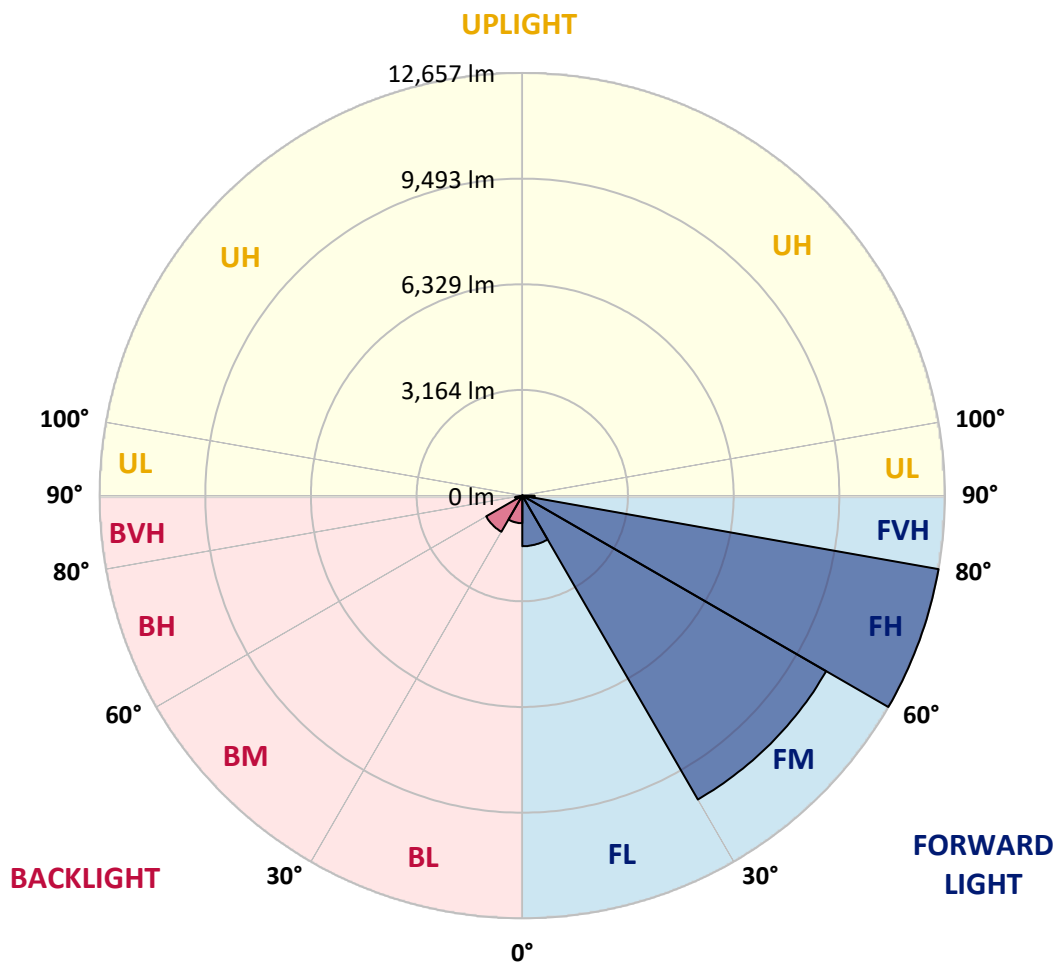
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1515.4	5.5			
FM	(30°-60°)	10508.5	38.4			
FH	(60°-80°)	12657.1	46.3			G5
FVH	(80°-90°)	369.0	1.3			G3/500
BL	(0°-30°)	825.1	3.0	B2/1000		
BM	(30°-60°)	1249.3	4.6	B2/2500		
BH	(60°-80°)	214.2	0.8	B1/500		G1/500
BVH	(80°-90°)	1.4	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°	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7
2.5°	4077.7	4119.7	4113.4	4128.1	4163.7	4178.4	4218.3	4262.4	4323.2	4365.2	4392.5
5°	3651.7	3683.2	3687.4	3760.8	3796.5	3836.4	3953.9	4081.9	4224.6	4337.9	4413.5
7.5°	3196.3	3213.1	3246.6	3343.2	3433.4	3473.3	3651.7	3874.1	4098.7	4310.7	4447.1
10°	2820.6	2839.5	2900.4	3003.2	3087.1	3139.6	3387.2	3666.4	3981.2	4296.0	4495.3
12.5°	2606.5	2617.0	2640.1	2732.5	2839.5	2896.2	3162.7	3481.7	3886.7	4302.3	4577.2
15°	2591.8	2587.7	2560.4	2598.1	2694.7	2753.4	3013.7	3355.8	3802.8	4323.2	4673.7
17.5°	2669.5	2659.0	2593.9	2593.9	2673.7	2722.0	2950.7	3288.6	3760.8	4371.5	4810.1
20°	2789.1	2772.3	2665.3	2656.9	2734.6	2784.9	2988.5	3292.8	3769.2	4461.8	4992.7
22.5°	2940.2	2921.3	2759.7	2763.9	2847.9	2898.3	3097.6	3368.4	3821.7	4573.0	5187.9
25°	3137.5	3116.5	2925.5	2917.1	3005.3	3049.4	3259.2	3502.7	3895.1	4711.5	5443.9
27.5°	3399.8	3355.8	3127.0	3114.4	3208.9	3265.5	3454.4	3683.2	4025.2	4902.5	5788.1
30°	3616.0	3567.7	3349.5	3315.9	3416.6	3460.7	3655.9	3926.6	4281.3	5236.2	6264.5
32.5°	3899.3	3828.0	3571.9	3483.8	3590.8	3647.5	3947.6	4379.9	4661.1	5588.7	6831.1
35°	4537.3	4493.2	4180.5	3872.0	3865.7	3937.1	4377.8	4837.4	5051.5	6138.6	7603.5
37.5°	5450.2	5418.7	5087.2	4673.7	4554.1	4520.5	4900.4	5341.1	5674.8	6894.1	8501.7
40°	6510.1	6436.6	6132.3	5781.8	5626.5	5527.9	5517.4	6090.3	6489.1	7920.4	9437.7
42.5°	7269.8	7135.5	6766.1	6740.9	6707.3	6604.5	6306.5	7185.8	7540.5	9024.3	10438.7
45°	8067.3	7863.7	7313.8	7219.4	7206.8	7200.5	7498.5	8482.8	8686.4	10220.5	11467.1
47.5°	8686.4	8524.8	8073.6	8031.6	8084.0	8226.8	9074.6	9859.5	9817.5	11286.6	12329.6
50°	9511.1	9389.4	8887.8	8967.6	9238.3	9471.3	10852.2	11360.1	10747.3	12126.1	12957.1
52.5°	10484.9	10260.4	9794.5	10010.6	10426.2	10814.4	12738.9	12673.8	11399.9	12757.8	13425.1
55°	11328.6	11169.1	11009.6	11234.1	11855.3	12340.1	14443.0	13658.1	11874.2	13265.6	13630.8
57.5°	12755.7	12717.9	12554.2	12783.0	13536.4	14040.1	15968.7	14422.0	12178.5	13530.1	13389.5
60°	14866.9	14806.1	14501.8	14793.5	15775.7	16566.8	17374.8	15108.3	12247.8	13427.2	12694.8
62.5°	17406.3	17198.5	16938.3	17368.5	18715.9	19064.3	18699.1	15515.4	11989.7	12608.8	11020.1
65°	19777.8	19563.7	19570.0	20476.7	21943.6	22180.8	20243.7	15454.6	11234.1	10558.4	8128.1
67.5°	21593.1	21557.5	21813.5	23582.7	25500.9	25337.2	21624.6	14543.7	8994.9	6843.7	4319.0
70°	21685.5	21754.7	22489.3	25475.7	27423.2	27163.0	21507.1	11821.8	5607.6	3148.0	1702.0
71°	20569.0	21034.9	22050.7	25416.9	27536.6	27198.7	20516.5	9901.5	4113.4	2195.2	1227.7
72.5°	17528.0	17773.6	19968.8	23920.6	26640.4	25918.5	18004.4	6940.3	2633.8	1343.1	705.2
75°	9653.8	10258.3	13372.7	18766.2	21307.7	20673.9	11733.6	3297.0	1313.8	734.5	291.7
77.5°	4596.1	4478.5	6524.7	11160.7	14447.2	14413.6	5911.9	1464.9	766.0	497.4	146.9
80°	1313.8	1477.5	2497.4	5305.4	8021.1	8109.2	2270.8	707.2	531.0	388.3	75.6
82.5°	396.6	405.0	917.1	2346.3	3989.6	3760.8	852.1	361.0	382.0	308.5	44.1
85°	69.3	86.0	270.7	826.9	1521.5	1154.3	214.1	172.1	251.8	203.6	25.2
87.5°	4.2	6.3	90.2	94.4	134.3	77.7	37.8	25.2	54.6	54.6	14.7
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°	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7	4396.7
2.5°	4411.4	4424.0	4415.6	4396.7	4365.2	4327.4	4277.1	4235.1	4199.4	4180.5	4203.6
5°	4438.7	4455.5	4413.5	4319.0	4176.3	4021.0	3844.8	3708.3	3601.3	3567.7	3555.1
7.5°	4480.6	4491.1	4377.8	4167.9	3865.7	3498.5	3177.4	2906.6	2696.8	2633.8	2541.5
10°	4535.2	4528.9	4314.9	3924.5	3393.5	2841.6	2344.2	1974.8	1695.7	1595.0	1586.6
12.5°	4619.2	4585.6	4235.1	3592.9	2831.1	2109.2	1494.2	1169.0	992.7	933.9	921.3
15°	4724.1	4644.3	4109.2	3204.7	2167.9	1362.0	921.3	822.7	799.6	795.4	791.2
17.5°	4847.9	4722.0	3943.4	2728.3	1523.6	883.5	770.2	768.1	770.2	766.0	763.9
20°	5015.8	4803.8	3746.1	2163.7	1007.4	745.0	734.5	734.5	736.6	734.5	734.5
22.5°	5194.2	4900.4	3502.7	1651.6	759.7	707.2	705.2	709.3	713.5	711.4	711.4
25°	5414.6	5026.3	3181.6	1131.2	680.0	675.8	677.9	686.3	694.7	696.8	694.7
27.5°	5733.5	5181.6	2837.4	778.6	623.3	627.5	648.5	669.5	682.1	684.2	684.2
30°	6092.4	5353.7	2388.3	631.7	577.1	577.1	602.3	642.2	669.5	673.7	675.8
32.5°	6554.1	5553.1	1890.9	568.7	533.1	528.9	551.9	600.2	650.6	665.3	665.3
35°	7125.0	5788.1	1406.1	528.9	501.6	491.1	503.7	543.6	608.6	650.6	654.8
37.5°	7794.4	6010.6	1028.3	493.2	472.2	457.5	465.9	497.4	549.8	612.8	629.6
40°	8413.5	6207.8	768.1	463.8	442.8	432.3	438.6	453.3	497.4	556.1	566.6
42.5°	9089.3	6361.0	610.7	432.3	413.4	409.2	409.2	415.5	444.9	478.5	480.6
45°	9763.0	6415.6	512.1	394.5	382.0	386.2	384.1	379.9	392.4	388.3	388.3
47.5°	10243.6	6350.6	423.9	358.9	358.9	365.2	354.7	340.0	333.7	308.5	310.6
50°	10573.1	6113.4	348.4	316.9	333.7	342.1	321.1	298.0	274.9	247.6	241.3
52.5°	10709.5	5691.6	285.4	262.3	295.9	306.4	281.2	253.9	218.3	195.2	188.9
55°	10621.3	5171.1	237.1	214.1	249.7	262.3	237.1	205.7	165.8	140.6	136.4
57.5°	10233.1	4549.9	201.5	170.0	199.4	207.8	191.0	157.4	117.5	92.3	92.3
60°	9561.5	3907.7	163.7	134.3	149.0	161.6	144.8	113.3	79.7	56.7	52.5
62.5°	8199.5	3173.2	132.2	104.9	104.9	115.4	100.7	81.8	50.4	29.4	27.3
65°	5920.3	2176.3	104.9	77.7	75.6	75.6	63.0	54.6	29.4	12.6	8.4
67.5°	3217.3	1227.7	83.9	58.8	52.5	50.4	39.9	31.5	12.6	2.1	0.0
70°	1265.5	472.2	65.1	39.9	33.6	31.5	21.0	14.7	8.4	0.0	0.0
71°	858.4	325.3	56.7	33.6	27.3	23.1	16.8	12.6	6.3	0.0	0.0
72.5°	491.1	201.5	44.1	25.2	21.0	16.8	12.6	8.4	6.3	0.0	0.0
75°	214.1	102.8	27.3	18.9	14.7	10.5	8.4	6.3	2.1	0.0	0.0
77.5°	109.1	56.7	18.9	14.7	8.4	6.3	4.2	2.1	0.0	0.0	0.0
80°	60.9	29.4	12.6	8.4	6.3	4.2	2.1	2.1	0.0	0.0	0.0
82.5°	33.6	16.8	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	10.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	4.2	0.0	0.0	0.0	0.0	2.1	2.1	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)