

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: P454420

Luminaire Tested: **GALN-SA5C-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454420  
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-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 23089 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

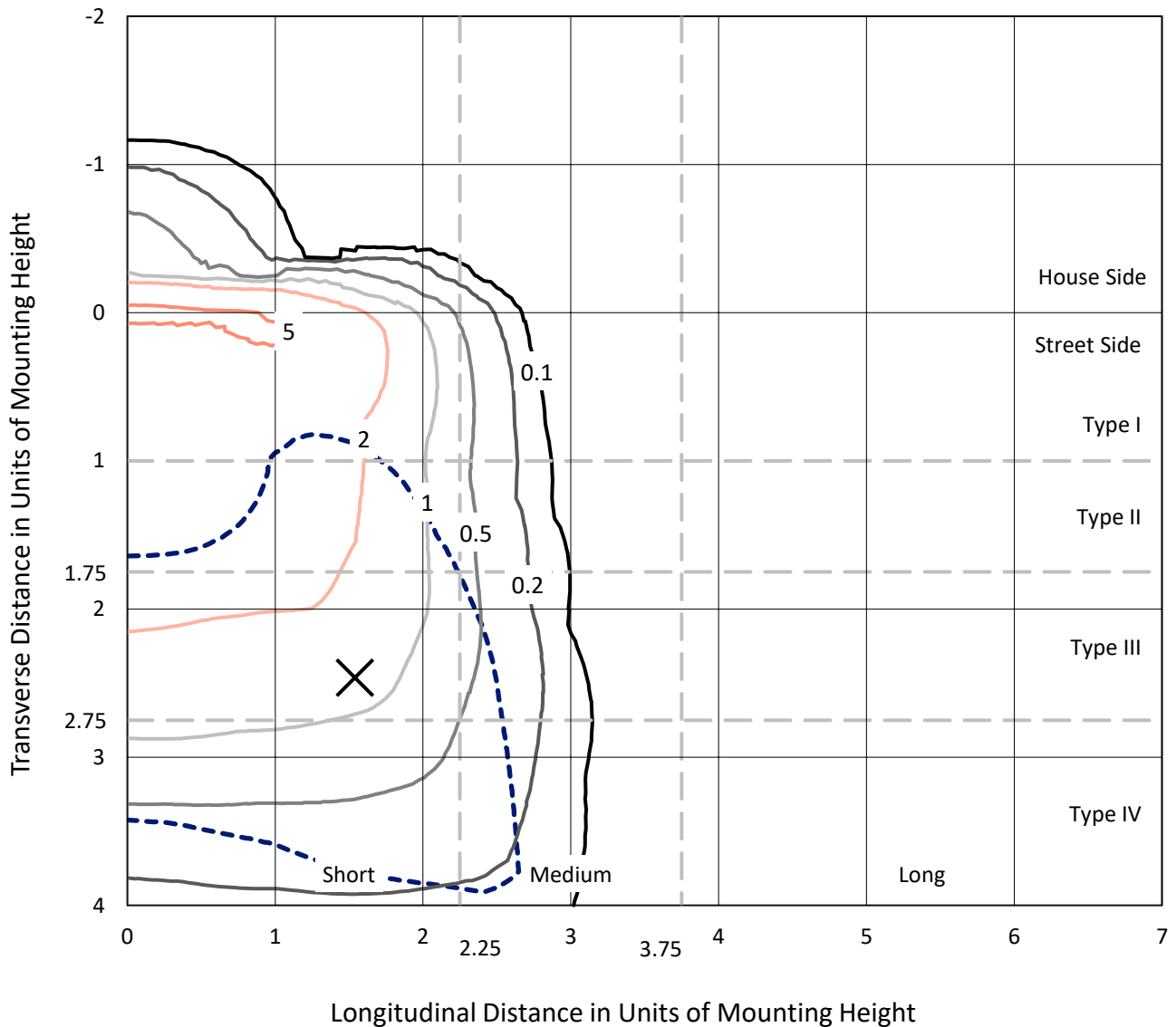
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

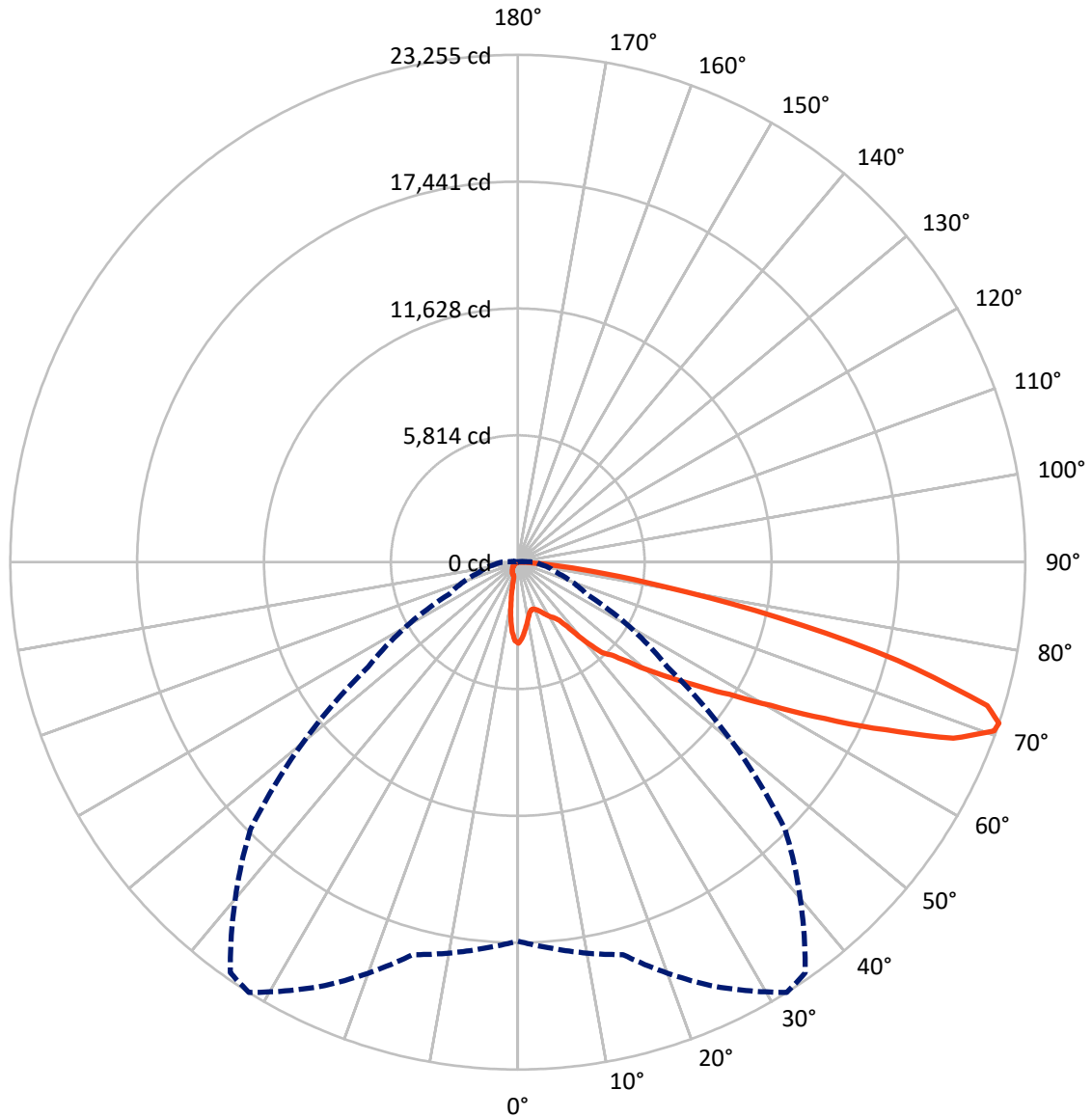
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1934.0	0.0	1934.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	21155.0	0.0	21155.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	23089.0	0.0	23089.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.9	1.3
10°-20°	655.3	2.8
20°-30°	1019.4	4.4
30°-40°	1698.3	7.4
40°-50°	3159.1	13.7
50°-60°	5072.1	22.0
60°-70°	6822.2	29.5
70°-80°	4047.7	17.5
80°-90°	312.9	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°	23089.0	100.0
0°-180°	23089.0	100.0



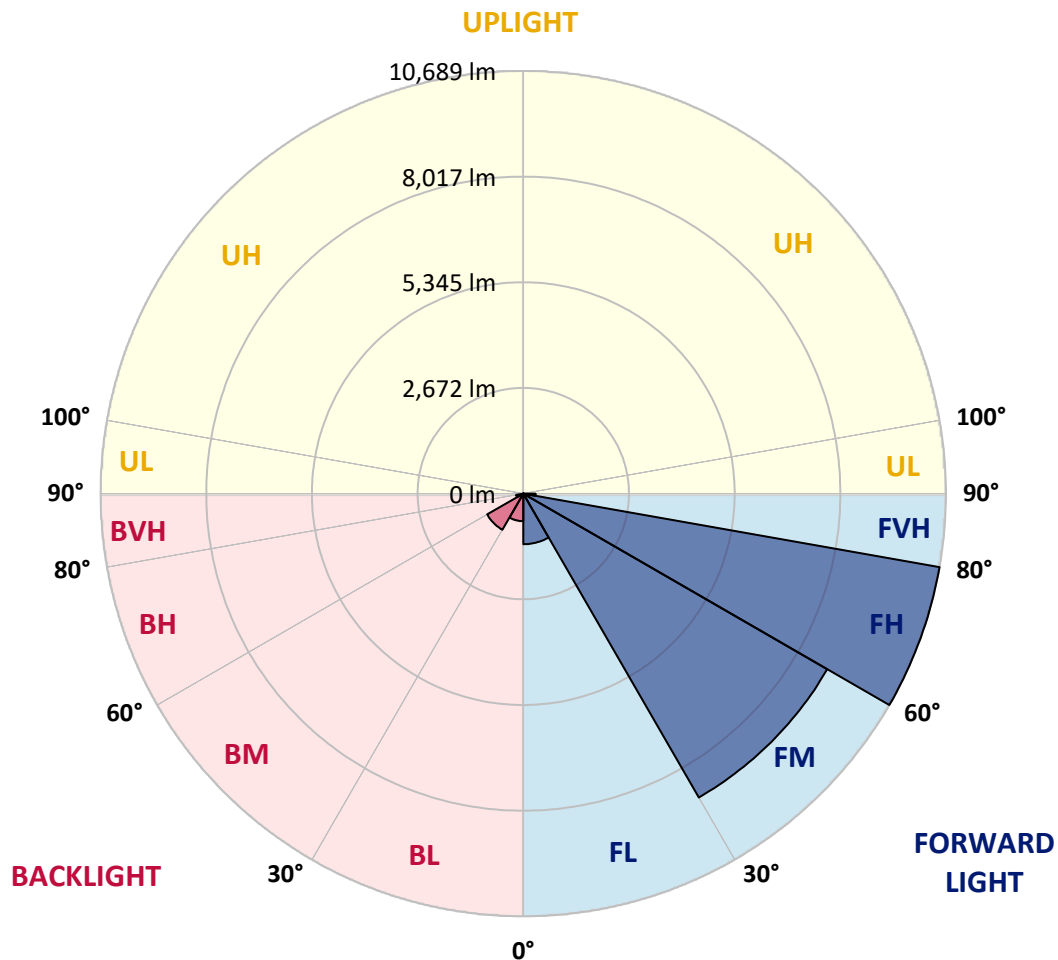
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1279.7	5.5			
FM	(30°-60°)	8874.6	38.4			
FH	(60°-80°)	10689.1	46.3			G4/12000
FVH	(80°-90°)	311.7	1.3			G3/500
BL	(0°-30°)	696.8	3.0	B2/1000		
BM	(30°-60°)	1055.0	4.6	B2/2500		
BH	(60°-80°)	180.9	0.8	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1
2.5°	3443.7	3479.1	3473.8	3486.2	3516.3	3528.7	3562.4	3599.6	3651.0	3686.5	3709.5
5°	3083.9	3110.5	3114.0	3176.1	3206.2	3239.9	3339.1	3447.2	3567.7	3663.4	3727.3
7.5°	2699.3	2713.5	2741.8	2823.4	2899.6	2933.2	3083.9	3271.8	3461.4	3640.4	3755.6
10°	2382.0	2398.0	2449.4	2536.2	2607.1	2651.4	2860.6	3096.3	3362.1	3628.0	3796.4
12.5°	2201.3	2210.1	2229.6	2307.6	2398.0	2445.8	2670.9	2940.3	3282.4	3633.3	3865.5
15°	2188.9	2185.3	2162.3	2194.2	2275.7	2325.3	2545.1	2834.0	3211.5	3651.0	3947.0
17.5°	2254.4	2245.6	2190.6	2190.6	2258.0	2298.7	2491.9	2777.3	3176.1	3691.8	4062.2
20°	2355.5	2341.3	2250.9	2243.8	2309.4	2351.9	2523.8	2780.8	3183.1	3768.0	4216.4
22.5°	2483.1	2467.1	2330.6	2334.2	2405.1	2447.6	2616.0	2844.6	3227.4	3861.9	4381.2
25°	2649.7	2631.9	2470.7	2463.6	2538.0	2575.2	2752.5	2958.1	3289.5	3978.9	4597.5
27.5°	2871.2	2834.0	2640.8	2630.2	2709.9	2757.8	2917.3	3110.5	3399.4	4140.2	4888.1
30°	3053.8	3013.0	2828.7	2800.3	2885.4	2922.6	3087.4	3316.1	3615.6	4422.0	5290.5
32.5°	3293.0	3232.8	3016.5	2942.1	3032.5	3080.3	3333.8	3698.9	3936.4	4719.8	5769.0
35°	3831.8	3794.6	3530.5	3270.0	3264.7	3324.9	3697.1	4085.3	4266.0	5184.1	6421.2
37.5°	4602.8	4576.2	4296.2	3947.0	3846.0	3817.6	4138.4	4510.6	4792.4	5822.2	7179.8
40°	5497.8	5435.8	5178.8	4882.8	4751.7	4668.4	4659.5	5143.4	5480.1	6688.8	7970.3
42.5°	6139.4	6026.0	5714.1	5692.8	5664.4	5577.6	5325.9	6068.5	6368.1	7621.1	8815.7
45°	6812.9	6641.0	6176.6	6096.9	6086.2	6080.9	6332.6	7163.8	7335.8	8631.3	9684.1
47.5°	7335.8	7199.3	6818.2	6782.8	6827.1	6947.6	7663.6	8326.5	8291.1	9531.7	10412.6
50°	8032.3	7929.5	7505.9	7573.2	7801.9	7998.6	9164.8	9593.7	9076.2	10240.6	10942.5
52.5°	8854.7	8665.0	8271.6	8454.1	8805.0	9132.9	10758.2	10703.2	9627.4	10774.1	11337.7
55°	9567.1	9432.4	9297.7	9487.4	10012.0	10421.4	12197.3	11534.4	10028.0	11203.0	11511.4
57.5°	10772.3	10740.4	10602.2	10795.4	11431.7	11857.0	13485.8	12179.6	10284.9	11426.3	11307.6
60°	12555.3	12503.9	12246.9	12493.3	13322.7	13990.9	14673.3	12759.1	10343.4	11339.5	10720.9
62.5°	14699.9	14524.4	14304.6	14668.0	15805.8	16100.0	15791.6	13103.0	10125.4	10648.3	9306.6
65°	16702.6	16521.8	16527.2	17292.8	18531.7	18732.0	17096.1	13051.6	9487.4	8916.7	6864.3
67.5°	18235.7	18205.6	18421.8	19915.9	21535.8	21397.6	18262.3	12282.4	7596.3	5779.6	3647.5
70°	18313.7	18372.2	18992.5	21514.5	23159.3	22939.5	18163.0	9983.6	4735.7	2658.5	1437.4
71°	17370.8	17764.3	18622.1	21464.9	23255.0	22969.6	17326.5	8361.9	3473.8	1853.9	1036.8
72.5°	14802.7	15010.0	16863.9	20201.2	22498.2	21888.5	15205.0	5861.2	2224.3	1134.3	595.5
75°	8152.8	8663.2	11293.4	15848.3	17994.7	17459.4	9909.2	2784.4	1109.5	620.3	246.4
77.5°	3881.4	3782.2	5510.2	9425.4	12200.9	12172.5	4992.7	1237.1	646.9	420.0	124.1
80°	1109.5	1247.7	2109.1	4480.5	6773.9	6848.4	1917.7	597.3	448.4	327.9	63.8
82.5°	335.0	342.1	774.5	1981.5	3369.2	3176.1	719.6	304.8	322.6	260.5	37.2
85°	58.5	72.7	228.6	698.3	1285.0	974.8	180.8	145.3	212.7	171.9	21.3
87.5°	3.5	5.3	76.2	79.8	113.4	65.6	31.9	21.3	46.1	46.1	12.4
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°	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1	3713.1
2.5°	3725.5	3736.1	3729.0	3713.1	3686.5	3654.6	3612.0	3576.6	3546.5	3530.5	3550.0
5°	3748.5	3762.7	3727.3	3647.5	3527.0	3395.8	3246.9	3131.7	3041.4	3013.0	3002.4
7.5°	3784.0	3792.8	3697.1	3519.9	3264.7	2954.5	2683.3	2454.7	2277.5	2224.3	2146.3
10°	3830.0	3824.7	3644.0	3314.3	2865.9	2399.8	1979.7	1667.8	1432.1	1347.0	1339.9
12.5°	3900.9	3872.6	3576.6	3034.3	2390.9	1781.2	1261.9	987.2	838.3	788.7	778.1
15°	3989.6	3922.2	3470.3	2706.4	1830.8	1150.3	778.1	694.8	675.3	671.7	668.2
17.5°	4094.1	3987.8	3330.2	2304.1	1286.7	746.2	650.5	648.7	650.5	646.9	645.1
20°	4235.9	4056.9	3163.6	1827.3	850.7	629.2	620.3	620.3	622.1	620.3	620.3
22.5°	4386.6	4138.4	2958.1	1394.8	641.6	597.3	595.5	599.1	602.6	600.8	600.8
25°	4572.7	4244.8	2686.9	955.3	574.2	570.7	572.5	579.6	586.6	588.4	586.6
27.5°	4842.1	4375.9	2396.2	657.5	526.4	529.9	547.7	565.4	576.0	577.8	577.8
30°	5145.1	4521.3	2016.9	533.5	487.4	487.4	508.7	542.3	565.4	568.9	570.7
32.5°	5535.0	4689.6	1596.9	480.3	450.2	446.6	466.1	506.9	549.4	561.8	561.8
35°	6017.1	4888.1	1187.5	446.6	423.6	414.7	425.4	459.0	514.0	549.4	553.0
37.5°	6582.5	5076.0	868.5	416.5	398.8	386.4	393.5	420.0	464.4	517.5	531.7
40°	7105.3	5242.6	648.7	391.7	374.0	365.1	370.4	382.8	420.0	469.7	478.5
42.5°	7676.0	5372.0	515.8	365.1	349.2	345.6	345.6	350.9	375.7	404.1	405.9
45°	8245.0	5418.1	432.5	333.2	322.6	326.1	324.3	320.8	331.4	327.9	327.9
47.5°	8650.8	5363.1	358.0	303.1	303.1	308.4	299.5	287.1	281.8	260.5	262.3
50°	8929.1	5162.9	294.2	267.6	281.8	288.9	271.2	251.7	232.2	209.1	203.8
52.5°	9044.3	4806.6	241.0	221.5	249.9	258.8	237.5	214.5	184.3	164.8	159.5
55°	8969.9	4367.1	200.3	180.8	210.9	221.5	200.3	173.7	140.0	118.7	115.2
57.5°	8642.0	3842.5	170.1	143.6	168.4	175.5	161.3	132.9	99.3	78.0	78.0
60°	8074.8	3300.1	138.2	113.4	125.8	136.5	122.3	95.7	67.3	47.9	44.3
62.5°	6924.6	2679.8	111.7	88.6	88.6	97.5	85.1	69.1	42.5	24.8	23.0
65°	4999.8	1837.9	88.6	65.6	63.8	63.8	53.2	46.1	24.8	10.6	7.1
67.5°	2717.0	1036.8	70.9	49.6	44.3	42.5	33.7	26.6	10.6	1.8	0.0
70°	1068.7	398.8	54.9	33.7	28.4	26.6	17.7	12.4	7.1	0.0	0.0
71°	724.9	274.7	47.9	28.4	23.0	19.5	14.2	10.6	5.3	0.0	0.0
72.5°	414.7	170.1	37.2	21.3	17.7	14.2	10.6	7.1	5.3	0.0	0.0
75°	180.8	86.8	23.0	16.0	12.4	8.9	7.1	5.3	1.8	0.0	0.0
77.5°	92.2	47.9	16.0	12.4	7.1	5.3	3.5	1.8	0.0	0.0	0.0
80°	51.4	24.8	10.6	7.1	5.3	3.5	1.8	1.8	0.0	0.0	0.0
82.5°	28.4	14.2	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	8.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.5	0.0	0.0	0.0	0.0	1.8	1.8	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)