

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: P455087

Luminaire Tested: **GALN-SA6B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455087  
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-SA6B-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA 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: 20320 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 - G4

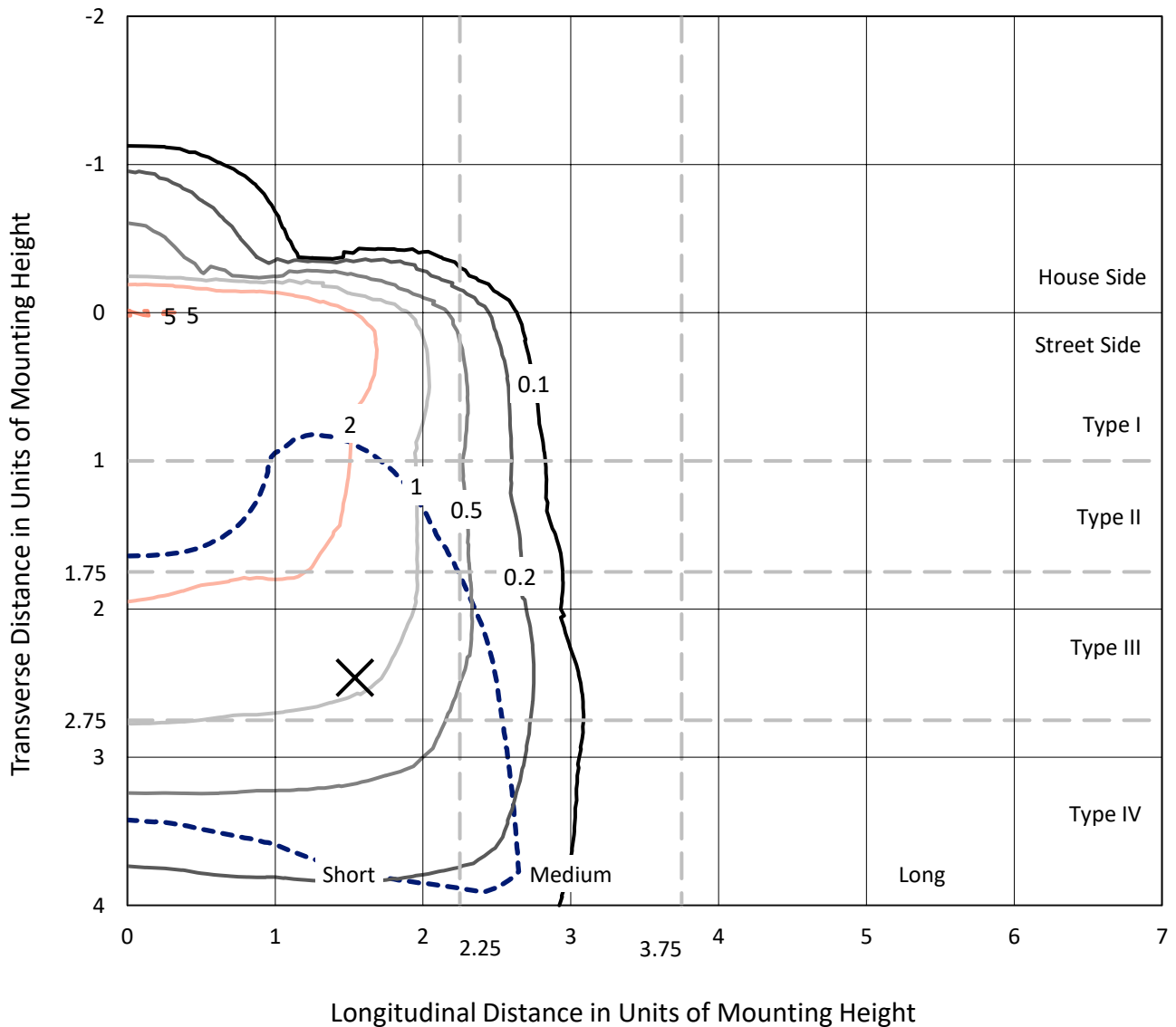
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

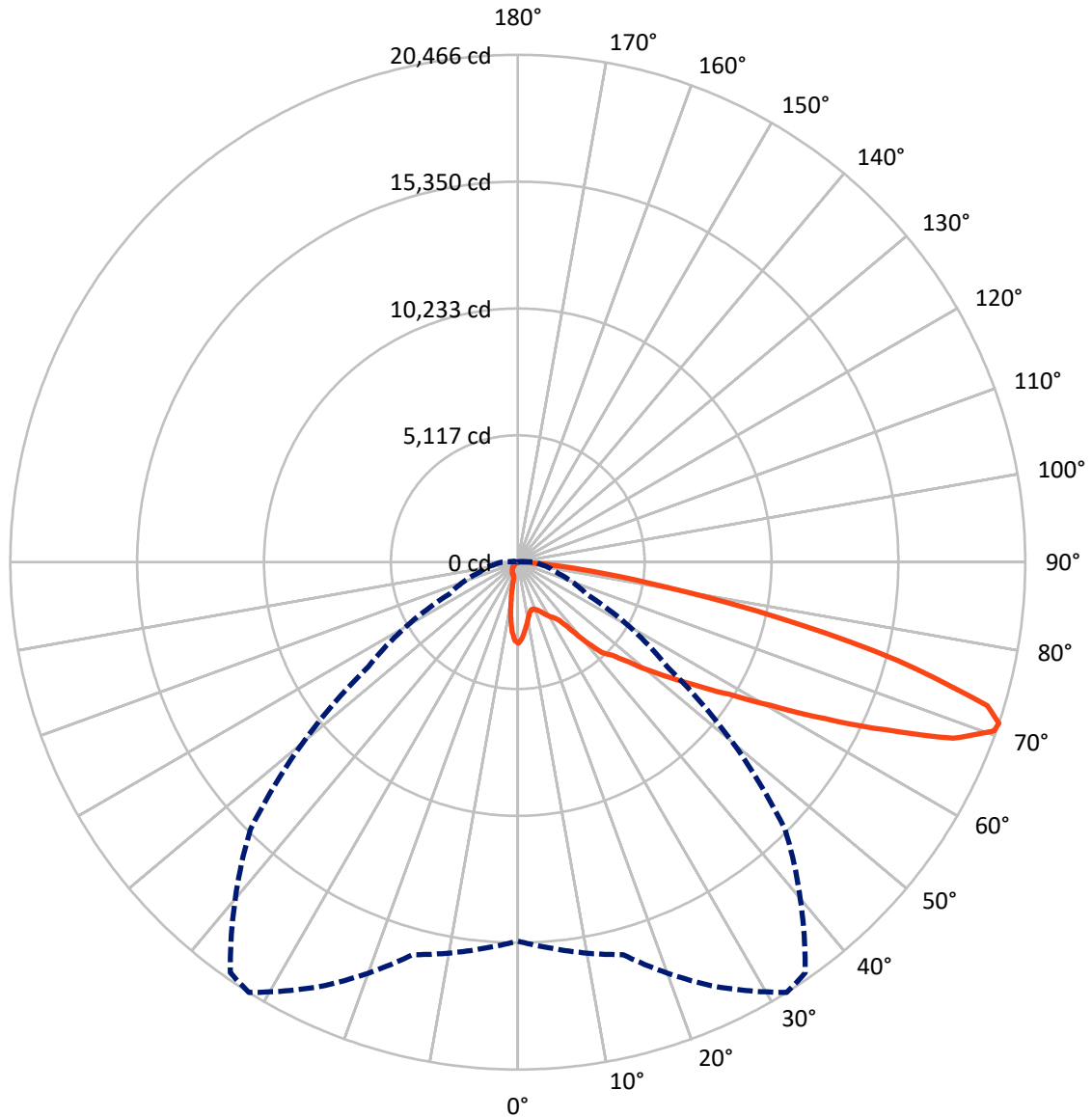
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1702.0	0.0	1702.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	18618.0	0.0	18618.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	20320.0	0.0	20320.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.7	1.3
10°-20°	576.7	2.8
20°-30°	897.1	4.4
30°-40°	1494.6	7.4
40°-50°	2780.3	13.7
50°-60°	4463.8	22.0
60°-70°	6004.1	29.5
70°-80°	3562.3	17.5
80°-90°	275.4	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°	20320.0	100.0
0°-180°	20320.0	100.0



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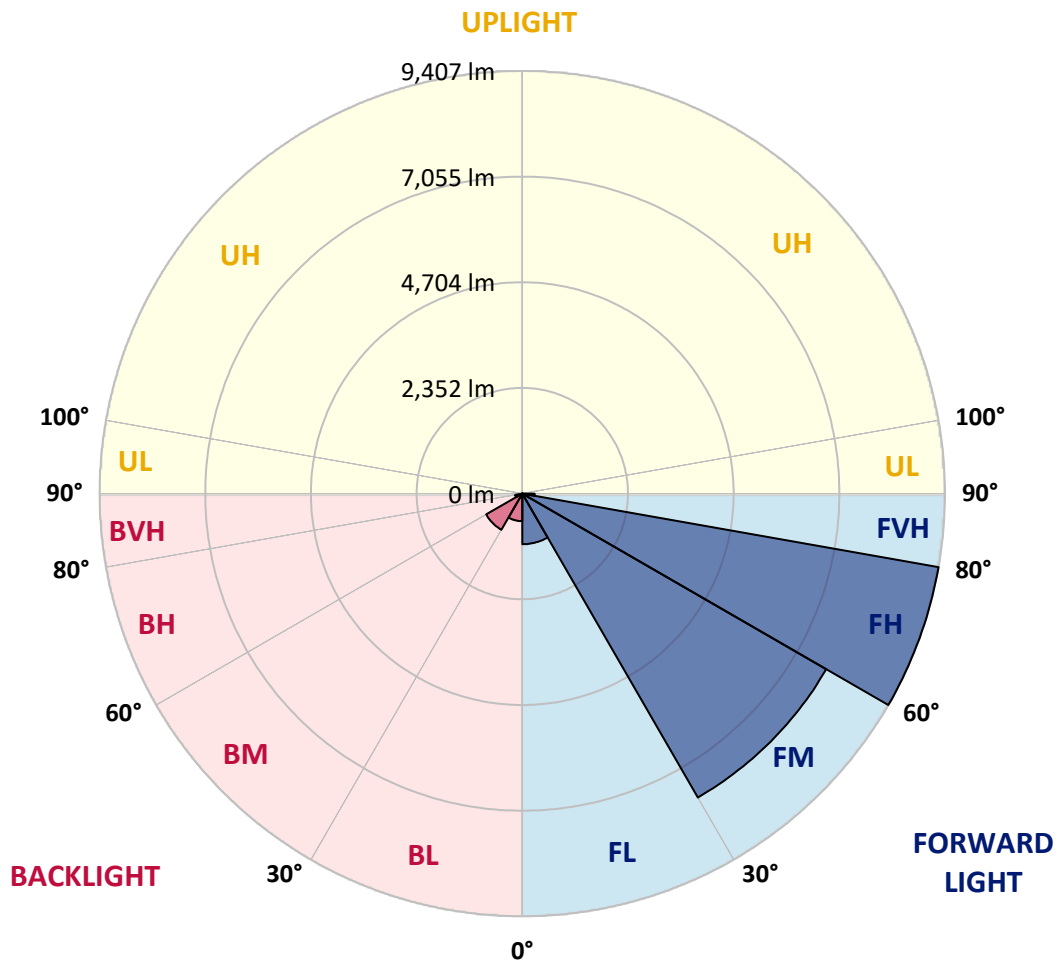
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1126.3	5.5			
FM	(30°-60°)	7810.3	38.4			
FH	(60°-80°)	9407.2	46.3			G4/12000
FVH	(80°-90°)	274.3	1.3			G3/500
BL	(0°-30°)	613.3	3.0	B2/1000		
BM	(30°-60°)	928.5	4.6	B1/1000		
BH	(60°-80°)	159.2	0.8	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8
2.5°	3030.7	3061.9	3057.2	3068.1	3094.6	3105.6	3135.2	3167.9	3213.2	3244.4	3264.7
5°	2714.0	2737.4	2740.6	2795.2	2821.7	2851.3	2938.7	3033.8	3139.9	3224.1	3280.3
7.5°	2375.6	2388.0	2413.0	2484.8	2551.8	2581.5	2714.0	2879.4	3046.3	3203.8	3305.2
10°	2096.4	2110.4	2155.6	2232.1	2294.5	2333.5	2517.5	2725.0	2958.9	3192.9	3341.1
12.5°	1937.3	1945.1	1962.2	2030.9	2110.4	2152.5	2350.6	2587.7	2888.7	3197.6	3401.9
15°	1926.3	1923.2	1903.0	1931.0	2002.8	2046.5	2239.9	2494.1	2826.4	3213.2	3473.7
17.5°	1984.1	1976.3	1927.9	1927.9	1987.2	2023.1	2193.1	2444.2	2795.2	3249.1	3575.1
20°	2073.0	2060.5	1980.9	1974.7	2032.4	2069.8	2221.2	2447.3	2801.4	3316.1	3710.8
22.5°	2185.3	2171.2	2051.1	2054.3	2116.6	2154.1	2302.3	2503.5	2840.4	3398.8	3855.8
25°	2331.9	2316.3	2174.4	2168.1	2233.6	2266.4	2422.4	2603.3	2895.0	3501.7	4046.1
27.5°	2526.9	2494.1	2324.1	2314.7	2384.9	2427.0	2567.4	2737.4	2991.7	3643.7	4301.9
30°	2687.5	2651.7	2489.4	2464.5	2539.3	2572.1	2717.2	2918.4	3182.0	3891.7	4656.0
32.5°	2898.1	2845.1	2654.8	2589.3	2668.8	2710.9	2934.0	3255.3	3464.3	4153.7	5077.1
35°	3372.3	3339.5	3107.1	2877.8	2873.1	2926.2	3253.7	3595.3	3754.4	4562.4	5651.1
37.5°	4050.8	4027.4	3780.9	3473.7	3384.8	3359.8	3642.1	3969.7	4217.7	5123.9	6318.7
40°	4838.5	4783.9	4557.7	4297.2	4181.8	4108.5	4100.7	4526.5	4822.9	5886.7	7014.4
42.5°	5403.1	5303.3	5028.8	5010.1	4985.1	4908.7	4687.2	5340.7	5604.3	6707.1	7758.4
45°	5995.9	5844.6	5435.9	5365.7	5356.3	5351.7	5573.2	6304.7	6456.0	7596.2	8522.7
47.5°	6456.0	6335.9	6000.5	5969.3	6008.3	6114.4	6744.6	7327.9	7296.7	8388.6	9163.8
50°	7069.0	6978.5	6605.7	6665.0	6866.2	7039.4	8065.7	8443.2	7987.7	9012.5	9630.2
52.5°	7792.7	7625.8	7279.6	7440.2	7749.1	8037.6	9468.0	9419.6	8472.8	9482.0	9978.0
55°	8419.8	8301.2	8182.7	8349.6	8811.3	9171.6	10734.5	10151.2	8825.3	9859.5	10130.9
57.5°	9480.4	9452.4	9330.7	9500.7	10060.7	10435.0	11868.5	10718.9	9051.5	10056.0	9951.5
60°	11049.6	11004.4	10778.2	10995.0	11725.0	12313.0	12913.6	11229.0	9103.0	9979.6	9435.2
62.5°	12937.0	12782.5	12589.1	12908.9	13910.3	14169.2	13897.8	11531.6	8911.1	9371.3	8190.5
65°	14699.5	14540.4	14545.1	15218.9	16309.2	16485.5	15045.8	11486.3	8349.6	7847.3	6041.1
67.5°	16048.7	16022.2	16212.5	17527.4	18953.1	18831.4	16072.1	10809.4	6685.3	5086.5	3210.1
70°	16117.4	16168.8	16714.8	18934.4	20381.9	20188.4	15984.8	8786.3	4167.8	2339.7	1265.0
71°	15287.6	15633.8	16388.8	18890.7	20466.1	20215.0	15248.6	7359.1	3057.2	1631.5	912.5
72.5°	13027.4	13209.9	14841.5	17778.6	19800.1	19263.5	13381.5	5158.2	1957.5	998.3	524.1
75°	7175.1	7624.3	9939.0	13947.7	15836.6	15365.6	8720.8	2450.4	976.4	545.9	216.8
77.5°	3416.0	3328.6	4849.4	8295.0	10737.6	10712.7	4393.9	1088.7	569.3	369.7	109.2
80°	976.4	1098.1	1856.2	3943.2	5961.5	6027.1	1687.7	525.7	394.6	288.6	56.2
82.5°	294.8	301.0	681.6	1743.9	2965.2	2795.2	633.3	268.3	283.9	229.3	32.8
85°	51.5	64.0	201.2	614.6	1130.9	857.9	159.1	127.9	187.2	151.3	18.7
87.5°	3.1	4.7	67.1	70.2	99.8	57.7	28.1	18.7	40.6	40.6	10.9
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°	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8	3267.8
2.5°	3278.7	3288.1	3281.8	3267.8	3244.4	3216.3	3178.9	3147.7	3121.2	3107.1	3124.3
5°	3299.0	3311.4	3280.3	3210.1	3104.0	2988.6	2857.5	2756.2	2676.6	2651.7	2642.3
7.5°	3330.2	3338.0	3253.7	3097.8	2873.1	2600.2	2361.5	2160.3	2004.3	1957.5	1888.9
10°	3370.7	3366.0	3206.9	2916.8	2522.2	2112.0	1742.3	1467.8	1260.3	1185.4	1179.2
12.5°	3433.1	3408.2	3147.7	2670.4	2104.2	1567.6	1110.6	868.8	737.8	694.1	684.8
15°	3511.1	3451.8	3054.1	2381.8	1611.3	1012.3	684.8	611.4	594.3	591.2	588.0
17.5°	3603.1	3509.5	2930.9	2027.7	1132.4	656.7	572.4	570.9	572.4	569.3	567.8
20°	3727.9	3570.4	2784.2	1608.2	748.7	553.7	545.9	545.9	547.5	545.9	545.9
22.5°	3860.5	3642.1	2603.3	1227.6	564.6	525.7	524.1	527.2	530.3	528.8	528.8
25°	4024.3	3735.7	2364.7	840.7	505.4	502.3	503.8	510.1	516.3	517.9	516.3
27.5°	4261.4	3851.1	2108.8	578.7	463.3	466.4	482.0	497.6	506.9	508.5	508.5
30°	4528.1	3979.0	1775.0	469.5	428.9	428.9	447.7	477.3	497.6	500.7	502.3
32.5°	4871.2	4127.2	1405.4	422.7	396.2	393.1	410.2	446.1	483.5	494.5	494.5
35°	5295.5	4301.9	1045.1	393.1	372.8	365.0	374.4	404.0	452.3	483.5	486.7
37.5°	5793.1	4467.3	764.3	366.6	351.0	340.0	346.3	369.7	408.7	455.5	467.9
40°	6253.2	4613.9	570.9	344.7	329.1	321.3	326.0	336.9	369.7	413.3	421.1
42.5°	6755.5	4727.7	453.9	321.3	307.3	304.2	304.2	308.8	330.7	355.6	357.2
45°	7256.2	4768.3	380.6	293.2	283.9	287.0	285.4	282.3	291.7	288.6	288.6
47.5°	7613.4	4719.9	315.1	266.7	266.7	271.4	263.6	252.7	248.0	229.3	230.8
50°	7858.3	4543.7	258.9	235.5	248.0	254.2	238.6	221.5	204.3	184.1	179.4
52.5°	7959.6	4230.2	212.1	195.0	219.9	227.7	209.0	188.7	162.2	145.1	140.4
55°	7894.1	3843.3	176.3	159.1	185.6	195.0	176.3	152.9	123.2	104.5	101.4
57.5°	7605.6	3381.6	149.7	126.3	148.2	154.4	141.9	117.0	87.3	68.6	68.6
60°	7106.4	2904.3	121.7	99.8	110.7	120.1	107.6	84.2	59.3	42.1	39.0
62.5°	6094.1	2358.4	98.3	78.0	78.0	85.8	74.9	60.8	37.4	21.8	20.3
65°	4400.2	1617.5	78.0	57.7	56.2	56.2	46.8	40.6	21.8	9.4	6.2
67.5°	2391.2	912.5	62.4	43.7	39.0	37.4	29.6	23.4	9.4	1.6	0.0
70°	940.6	351.0	48.4	29.6	25.0	23.4	15.6	10.9	6.2	0.0	0.0
71°	638.0	241.8	42.1	25.0	20.3	17.2	12.5	9.4	4.7	0.0	0.0
72.5°	365.0	149.7	32.8	18.7	15.6	12.5	9.4	6.2	4.7	0.0	0.0
75°	159.1	76.4	20.3	14.0	10.9	7.8	6.2	4.7	1.6	0.0	0.0
77.5°	81.1	42.1	14.0	10.9	6.2	4.7	3.1	1.6	0.0	0.0	0.0
80°	45.2	21.8	9.4	6.2	4.7	3.1	1.6	1.6	0.0	0.0	0.0
82.5°	25.0	12.5	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.6	7.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.1	0.0	0.0	0.0	0.0	1.6	1.6	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)