

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: P455116

Luminaire Tested: **GALN-SA6B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455116  
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-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 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: 22128 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

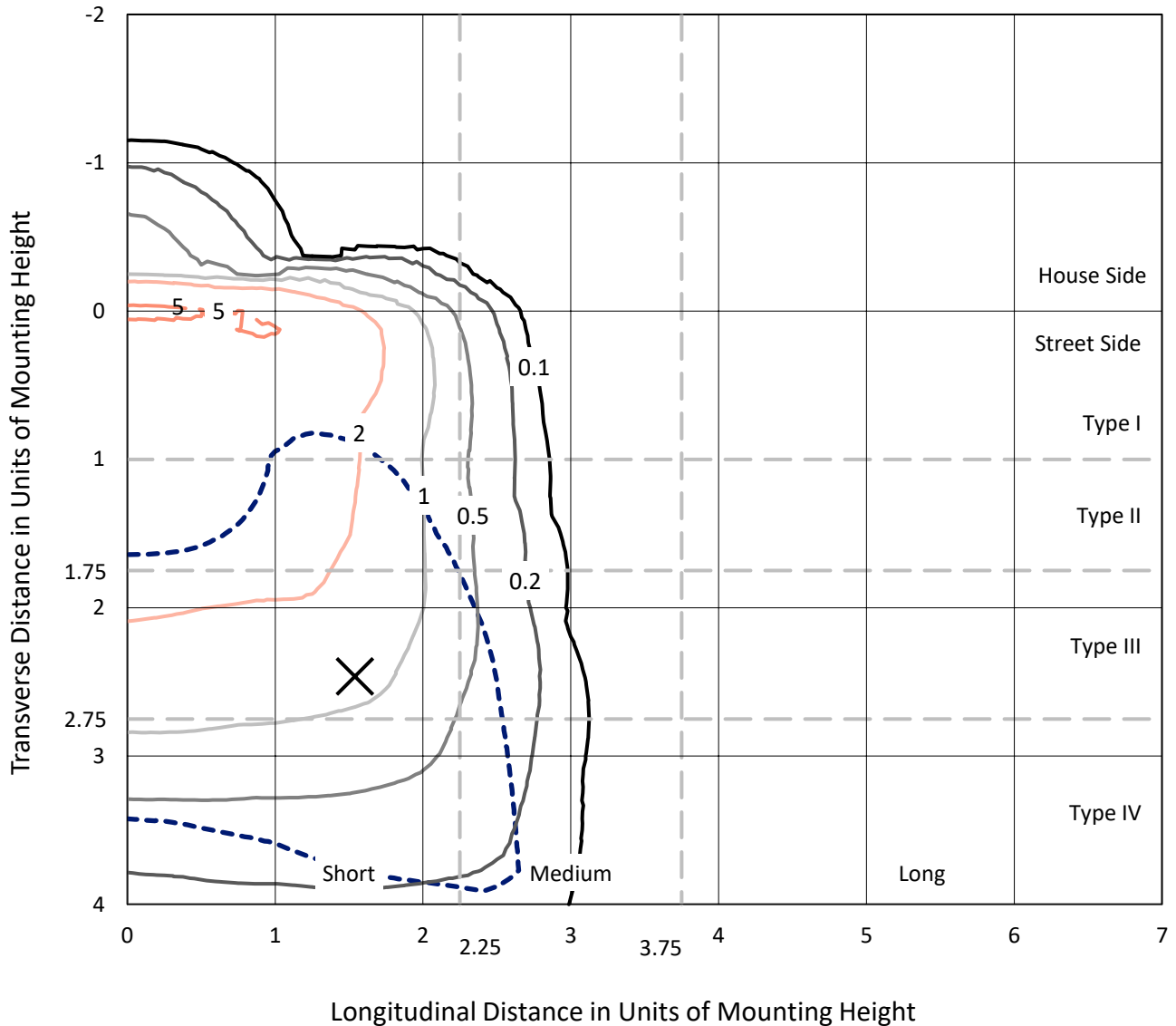
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

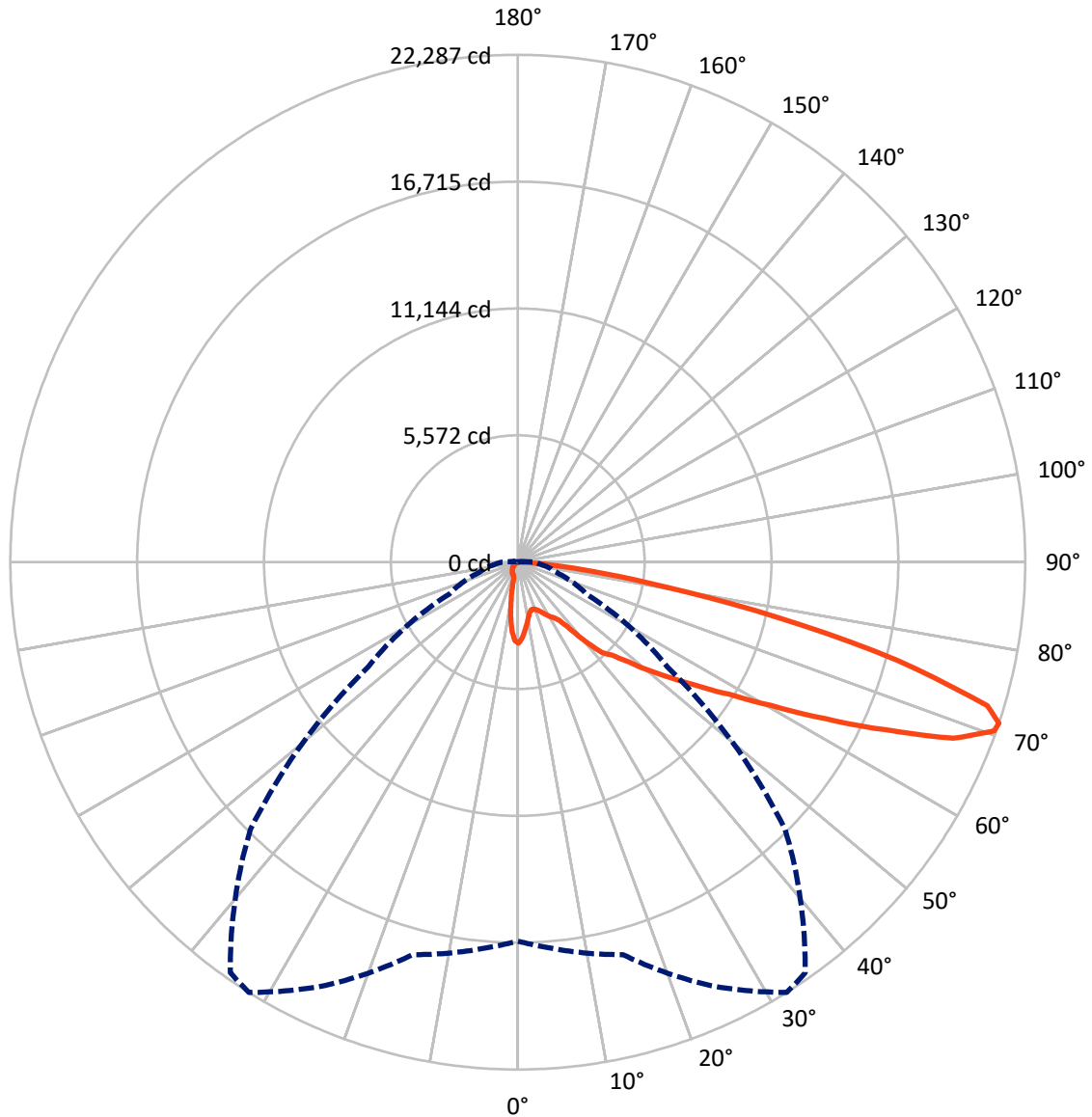
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1853.5	0.0	1853.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	20274.6	0.0	20274.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	22128.0	0.0	22128.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.4	1.3
10°-20°	628.0	2.8
20°-30°	977.0	4.4
30°-40°	1627.6	7.4
40°-50°	3027.7	13.7
50°-60°	4861.0	22.0
60°-70°	6538.3	29.5
70°-80°	3879.3	17.5
80°-90°	299.9	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°	22128.0	100.0
0°-180°	22128.0	100.0



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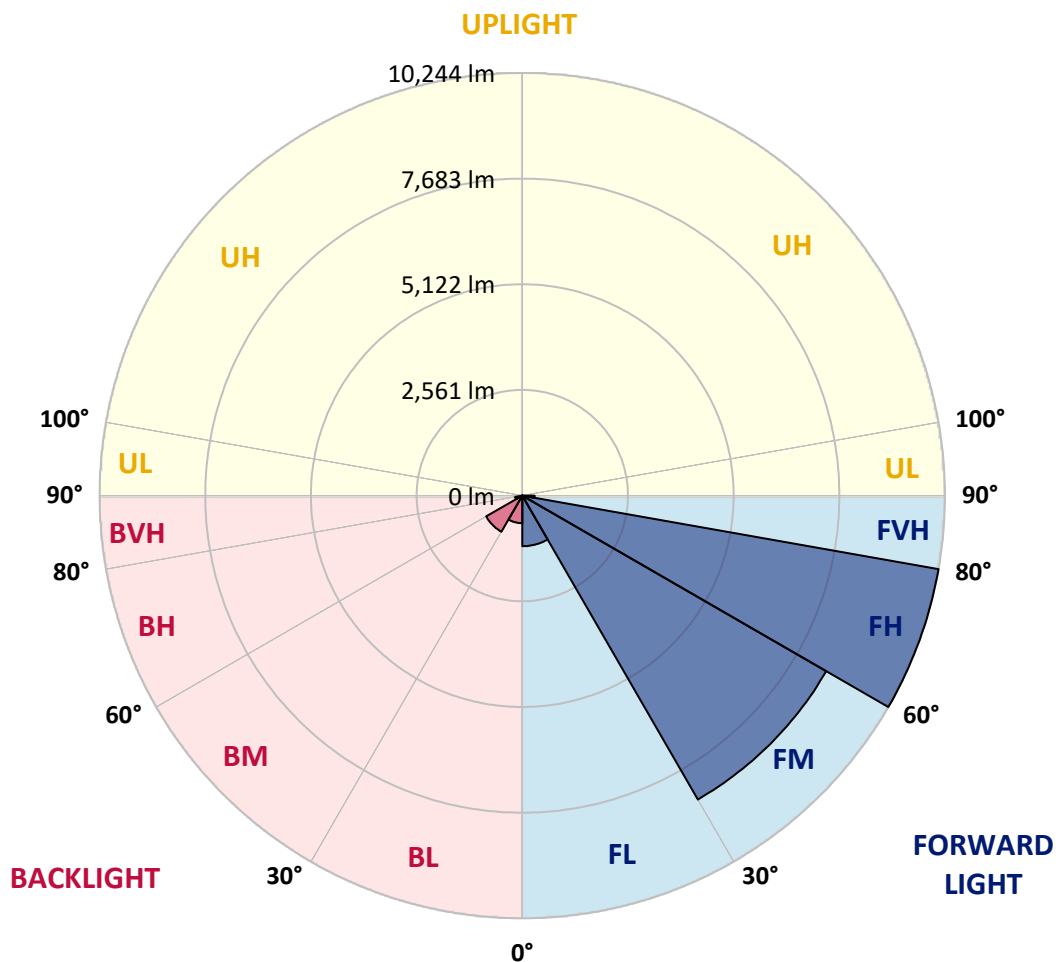
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1226.5	5.5			
FM	(30°-60°)	8505.2	38.4			
FH	(60°-80°)	10244.2	46.3			G4/12000
FVH	(80°-90°)	298.7	1.3			G3/500
BL	(0°-30°)	667.8	3.0	B2/1000		
BM	(30°-60°)	1011.1	4.6	B2/2500		
BH	(60°-80°)	173.4	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°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3300.3	3334.3	3329.2	3341.1	3370.0	3381.9	3414.1	3449.8	3499.1	3533.0	3555.1
5°	2955.5	2981.0	2984.4	3043.9	3072.7	3105.0	3200.1	3303.7	3419.2	3511.0	3572.1
7.5°	2586.9	2600.5	2627.7	2705.8	2778.9	2811.2	2955.5	3135.6	3317.3	3488.9	3599.3
10°	2282.9	2298.2	2347.4	2430.7	2498.6	2541.1	2741.5	2967.4	3222.2	3477.0	3638.4
12.5°	2109.6	2118.1	2136.8	2211.6	2298.2	2344.0	2559.8	2817.9	3145.8	3482.1	3704.6
15°	2097.7	2094.4	2072.3	2102.8	2181.0	2228.5	2439.2	2716.0	3077.8	3499.1	3782.7
17.5°	2160.6	2152.1	2099.4	2099.4	2164.0	2203.1	2388.2	2661.7	3043.9	3538.1	3893.1
20°	2257.4	2243.8	2157.2	2150.4	2213.3	2254.0	2418.8	2665.1	3050.7	3611.2	4040.9
22.5°	2379.7	2364.4	2233.6	2237.0	2305.0	2345.7	2507.1	2726.2	3093.1	3701.2	4198.9
25°	2539.4	2522.4	2367.8	2361.0	2432.4	2468.0	2637.9	2834.9	3152.6	3813.3	4406.1
27.5°	2751.7	2716.0	2530.9	2520.7	2597.1	2643.0	2795.9	2981.0	3257.9	3967.9	4684.7
30°	2926.7	2887.6	2710.9	2683.8	2765.3	2801.0	2958.9	3178.0	3465.1	4238.0	5070.3
32.5°	3156.0	3098.2	2891.0	2819.6	2906.3	2952.1	3195.0	3544.9	3772.5	4523.3	5528.9
35°	3672.3	3636.7	3383.6	3133.9	3128.8	3186.5	3543.2	3915.2	4088.5	4968.4	6154.0
37.5°	4411.2	4385.7	4117.4	3782.7	3685.9	3658.7	3966.2	4322.9	4593.0	5579.8	6881.0
40°	5269.0	5209.5	4963.3	4679.6	4553.9	4474.1	4465.6	4929.3	5252.0	6410.4	7638.5
42.5°	5883.9	5775.2	5476.2	5455.8	5428.7	5345.4	5104.2	5815.9	6103.0	7303.9	8448.7
45°	6529.3	6364.6	5919.6	5843.1	5832.9	5827.8	6069.0	6865.7	7030.4	8272.1	9281.0
47.5°	7030.4	6899.6	6534.4	6500.5	6542.9	6658.4	7344.7	7979.9	7946.0	9135.0	9979.2
50°	7698.0	7599.5	7193.5	7258.0	7477.2	7665.7	8783.4	9194.4	8698.4	9814.4	10487.0
52.5°	8486.1	8304.4	7927.3	8102.2	8438.6	8752.8	10310.4	10257.7	9226.7	10325.7	10865.8
55°	9168.9	9039.9	8910.8	9092.5	9595.3	9987.7	11689.6	11054.4	9610.6	10736.7	11032.3
57.5°	10324.0	10293.4	10160.9	10346.1	10955.9	11363.5	12924.5	11672.7	9856.9	10950.8	10836.9
60°	12032.8	11983.5	11737.2	11973.3	12768.2	13408.6	14062.6	12228.1	9912.9	10867.5	10274.7
62.5°	14088.0	13919.9	13709.3	14057.5	15147.9	15429.9	15134.4	12557.6	9704.0	10205.1	8919.3
65°	16007.4	15834.2	15839.3	16573.1	17760.4	17952.3	16384.5	12508.4	9092.5	8545.6	6578.6
67.5°	17476.7	17447.8	17655.1	19087.0	20639.5	20507.0	17502.2	11771.2	7280.1	5539.1	3495.7
70°	17551.4	17607.5	18202.0	20619.1	22195.4	21984.7	17407.1	9568.1	4538.6	2547.9	1377.5
71°	16647.8	17024.9	17847.0	20571.5	22287.1	22013.6	16605.3	8013.9	3329.2	1776.7	993.7
72.5°	14186.6	14385.3	16162.0	19360.4	21561.8	20977.5	14572.1	5617.2	2131.7	1087.1	570.7
75°	7813.5	8302.7	10823.4	15188.7	17245.7	16732.7	9496.8	2668.5	1063.3	594.5	236.1
77.5°	3719.9	3624.8	5280.9	9033.1	11693.0	11665.9	4784.9	1185.6	620.0	402.6	118.9
80°	1063.3	1195.8	2021.3	4294.0	6492.0	6563.3	1837.9	572.4	429.7	314.2	61.1
82.5°	321.0	327.8	742.3	1899.0	3229.0	3043.9	689.6	292.2	309.1	249.7	35.7
85°	56.1	69.6	219.1	669.2	1231.5	934.2	173.3	139.3	203.8	164.8	20.4
87.5°	3.4	5.1	73.0	76.4	108.7	62.8	30.6	20.4	44.2	44.2	11.9
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°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3570.4	3580.6	3573.8	3558.5	3533.0	3502.5	3461.7	3427.7	3398.9	3383.6	3402.3
5°	3592.5	3606.1	3572.1	3495.7	3380.2	3254.5	3111.8	3001.4	2914.8	2887.6	2877.4
7.5°	3626.5	3635.0	3543.2	3373.4	3128.8	2831.5	2571.7	2352.5	2182.7	2131.7	2057.0
10°	3670.6	3665.5	3492.3	3176.3	2746.6	2299.9	1897.3	1598.4	1372.5	1290.9	1284.1
12.5°	3738.6	3711.4	3427.7	2908.0	2291.4	1707.1	1209.4	946.1	803.4	755.9	745.7
15°	3823.5	3759.0	3325.8	2593.7	1754.6	1102.4	745.7	665.8	647.2	643.8	640.4
17.5°	3923.7	3821.8	3191.6	2208.2	1233.2	715.1	623.4	621.7	623.4	620.0	618.3
20°	4059.6	3888.1	3032.0	1751.2	815.3	603.0	594.5	594.5	596.2	594.5	594.5
22.5°	4204.0	3966.2	2834.9	1336.8	614.9	572.4	570.7	574.1	577.5	575.8	575.8
25°	4382.3	4068.1	2575.0	915.5	550.3	546.9	548.6	555.4	562.2	563.9	562.2
27.5°	4640.5	4193.8	2296.5	630.2	504.5	507.9	524.9	541.8	552.0	553.7	553.7
30°	4931.0	4333.1	1933.0	511.3	467.1	467.1	487.5	519.8	541.8	545.2	546.9
32.5°	5304.7	4494.4	1530.4	460.3	431.4	428.0	446.7	485.8	526.6	538.5	538.5
35°	5766.7	4684.7	1138.0	428.0	406.0	397.5	407.7	439.9	492.6	526.6	530.0
37.5°	6308.5	4864.7	832.3	399.2	382.2	370.3	377.1	402.6	445.0	496.0	509.6
40°	6809.6	5024.4	621.7	375.4	358.4	349.9	355.0	366.9	402.6	450.1	458.6
42.5°	7356.6	5148.4	494.3	349.9	334.6	331.2	331.2	336.3	360.1	387.3	389.0
45°	7901.8	5192.6	414.5	319.3	309.1	312.5	310.8	307.4	317.6	314.2	314.2
47.5°	8290.8	5139.9	343.1	290.5	290.5	295.6	287.1	275.2	270.1	249.7	251.4
50°	8557.5	4948.0	282.0	256.5	270.1	276.9	259.9	241.2	222.5	200.4	195.3
52.5°	8667.9	4606.6	231.0	212.3	239.5	248.0	227.6	205.5	176.7	158.0	152.9
55°	8596.5	4185.3	191.9	173.3	202.1	212.3	191.9	166.5	134.2	113.8	110.4
57.5°	8282.3	3682.5	163.1	137.6	161.4	168.2	154.6	127.4	95.1	74.7	74.7
60°	7738.7	3162.8	132.5	108.7	120.6	130.8	117.2	91.7	64.5	45.9	42.5
62.5°	6636.4	2568.3	107.0	84.9	84.9	93.4	81.5	66.2	40.8	23.8	22.1
65°	4791.7	1761.4	84.9	62.8	61.1	61.1	51.0	44.2	23.8	10.2	6.8
67.5°	2603.9	993.7	67.9	47.6	42.5	40.8	32.3	25.5	10.2	1.7	0.0
70°	1024.2	382.2	52.7	32.3	27.2	25.5	17.0	11.9	6.8	0.0	0.0
71°	694.7	263.3	45.9	27.2	22.1	18.7	13.6	10.2	5.1	0.0	0.0
72.5°	397.5	163.1	35.7	20.4	17.0	13.6	10.2	6.8	5.1	0.0	0.0
75°	173.3	83.2	22.1	15.3	11.9	8.5	6.8	5.1	1.7	0.0	0.0
77.5°	88.3	45.9	15.3	11.9	6.8	5.1	3.4	1.7	0.0	0.0	0.0
80°	49.3	23.8	10.2	6.8	5.1	3.4	1.7	1.7	0.0	0.0	0.0
82.5°	27.2	13.6	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.0	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	3.4	0.0	0.0	0.0	0.0	1.7	1.7	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)