

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: P459031

Luminaire Tested: **GALN-SA5B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459031
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-SA5B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 19115 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

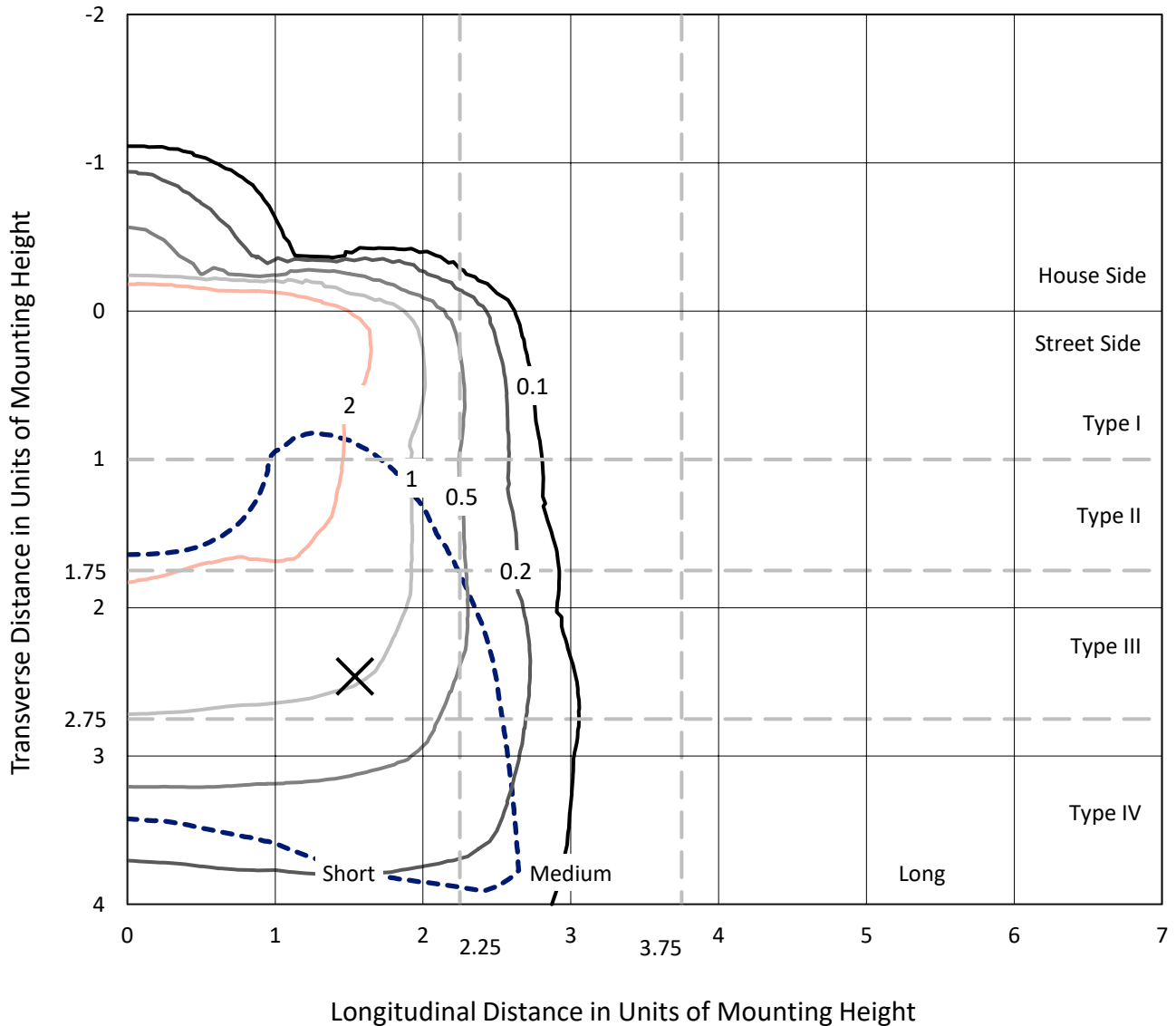
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

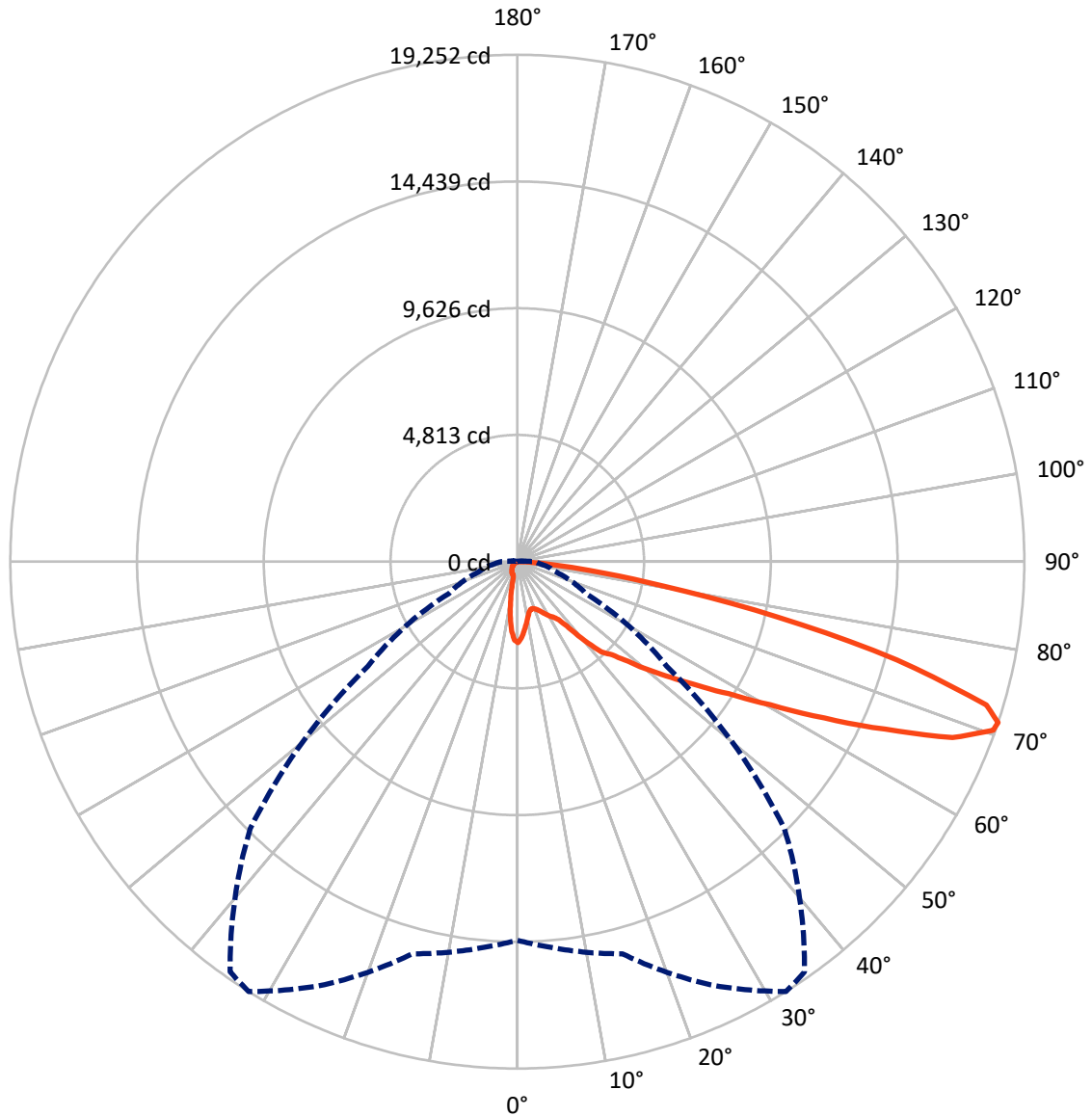
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	1601.1	0.0	1601.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17513.9	0.0	17513.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	19115.0	0.0	19115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.0	1.3
10°-20°	542.5	2.8
20°-30°	843.9	4.4
30°-40°	1406.0	7.4
40°-50°	2615.4	13.7
50°-60°	4199.1	22.0
60°-70°	5648.0	29.5
70°-80°	3351.0	17.5
80°-90°	259.0	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°	19115.0	100.0
0°-180°	19115.0	100.0

Coefficient of Utilization



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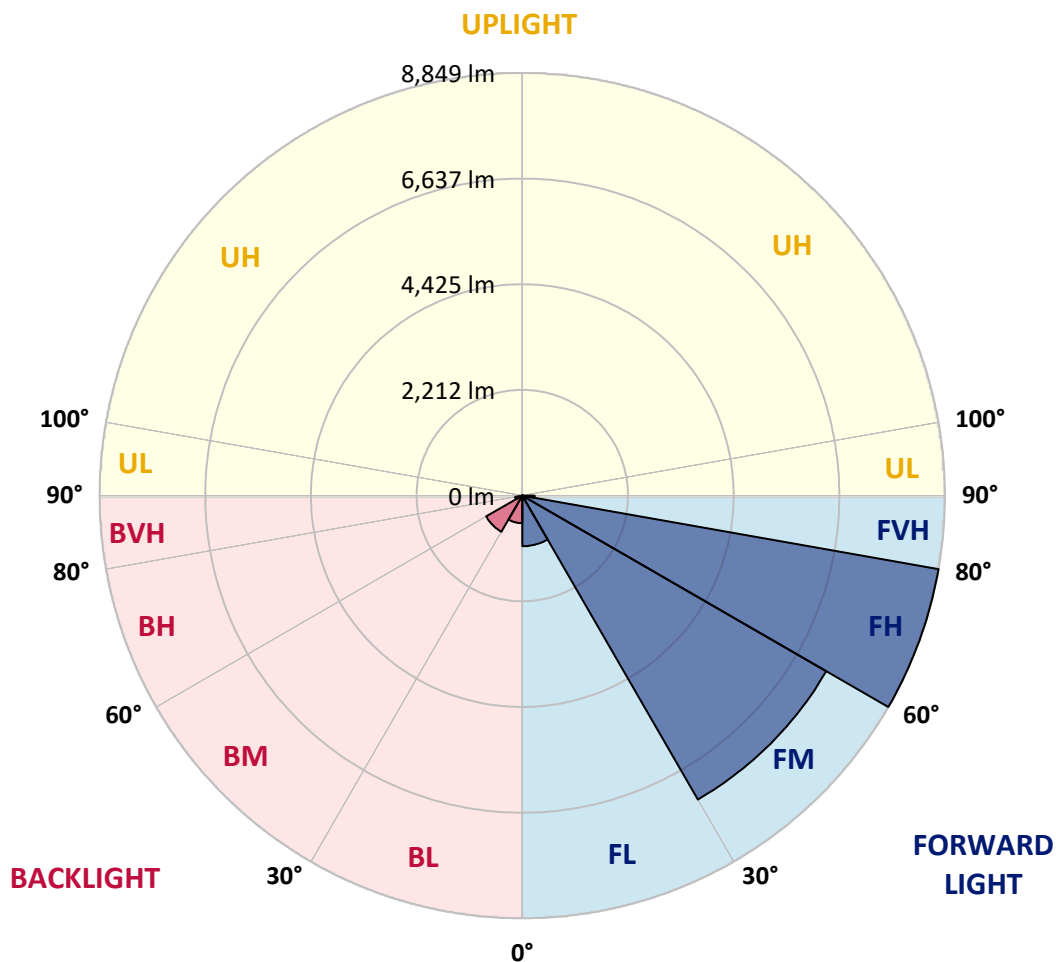
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1059.5	5.5			
FM	(30°-60°)	7347.1	38.4			
FH	(60°-80°)	8849.3	46.3			G4/12000
FVH	(80°-90°)	258.0	1.3			G3/500
BL	(0°-30°)	576.9	3.0	B2/1000		
BM	(30°-60°)	873.4	4.6	B1/1000		
BH	(60°-80°)	149.7	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0
2.5°	2851.0	2880.3	2875.9	2886.2	2911.1	2921.4	2949.3	2980.1	3022.6	3052.0	3071.1
5°	2553.1	2575.1	2578.0	2629.4	2654.3	2682.2	2764.4	2853.9	2953.7	3032.9	3085.7
7.5°	2234.7	2246.4	2269.9	2337.4	2400.5	2428.4	2553.1	2708.6	2865.6	3013.8	3109.2
10°	1972.0	1985.3	2027.8	2099.7	2158.4	2195.1	2368.2	2563.4	2783.5	3003.6	3143.0
12.5°	1822.4	1829.7	1845.9	1910.4	1985.3	2024.9	2211.2	2434.2	2717.4	3008.0	3200.2
15°	1812.1	1809.2	1790.1	1816.5	1884.0	1925.1	2107.0	2346.2	2658.7	3022.6	3267.7
17.5°	1866.4	1859.1	1813.6	1813.6	1869.3	1903.1	2063.0	2299.3	2629.4	3056.4	3363.0
20°	1950.0	1938.3	1863.5	1857.6	1911.9	1947.1	2089.4	2302.2	2635.3	3119.5	3490.7
22.5°	2055.7	2042.5	1929.5	1932.4	1991.1	2026.3	2165.7	2355.0	2672.0	3197.2	3627.2
25°	2193.6	2178.9	2045.4	2039.5	2101.2	2132.0	2278.7	2448.9	2723.3	3294.1	3806.2
27.5°	2377.0	2346.2	2186.3	2177.5	2243.5	2283.1	2415.2	2575.1	2814.3	3427.6	4046.8
30°	2528.2	2494.4	2341.8	2318.3	2388.8	2419.6	2556.0	2745.3	2993.3	3660.9	4379.9
32.5°	2726.2	2676.4	2497.3	2435.7	2510.5	2550.2	2760.0	3062.3	3258.9	3907.4	4776.1
35°	3172.3	3141.5	2922.9	2707.2	2702.8	2752.7	3060.8	3382.1	3531.8	4291.8	5316.0
37.5°	3810.6	3788.6	3556.7	3267.7	3184.0	3160.6	3426.1	3734.3	3967.6	4820.1	5944.0
40°	4551.6	4500.2	4287.4	4042.4	3933.8	3864.9	3857.5	4258.1	4536.9	5537.6	6598.4
42.5°	5082.7	4988.8	4730.6	4713.0	4689.5	4617.6	4409.2	5024.0	5272.0	6309.4	7298.3
45°	5640.3	5498.0	5113.5	5047.5	5038.7	5034.3	5242.7	5930.8	6073.1	7145.7	8017.3
47.5°	6073.1	5960.2	5644.7	5615.4	5652.0	5751.8	6344.6	6893.4	6864.0	7891.1	8620.4
50°	6649.8	6564.7	6214.0	6269.8	6459.0	6621.9	7587.4	7942.5	7514.0	8478.1	9059.1
52.5°	7330.6	7173.6	6847.9	6999.0	7289.5	7561.0	8906.5	8861.0	7970.4	8919.7	9386.3
55°	7920.5	7809.0	7697.4	7854.4	8288.8	8627.7	10097.9	9549.2	8302.0	9274.8	9530.1
57.5°	8918.2	8891.8	8777.4	8937.3	9464.1	9816.2	11164.7	10083.3	8514.7	9459.7	9361.4
60°	10394.3	10351.8	10139.0	10343.0	11029.7	11582.9	12147.8	10563.1	8563.2	9387.8	8875.7
62.5°	12169.8	12024.5	11842.6	12143.4	13085.4	13328.9	13073.6	10847.7	8382.7	8815.5	7704.8
65°	13827.8	13678.2	13682.6	14316.4	15342.1	15507.9	14153.6	10805.2	7854.4	7382.0	5682.8
67.5°	15097.0	15072.1	15251.1	16488.0	17829.1	17714.7	15119.0	10168.4	6288.8	4784.9	3019.7
70°	15161.6	15210.0	15723.6	17811.5	19173.2	18991.2	15036.9	8265.3	3920.6	2200.9	1190.0
71°	14381.0	14706.7	15416.9	17770.5	19252.4	19016.2	14344.3	6922.7	2875.9	1534.8	858.4
72.5°	12254.9	12426.6	13961.3	16724.3	18625.9	18121.1	12588.0	4852.4	1841.5	939.1	493.0
75°	6749.6	7172.2	9349.6	13120.6	14897.5	14454.4	8203.7	2305.1	918.5	513.6	204.0
77.5°	3213.4	3131.2	4561.8	7803.1	10100.9	10077.4	4133.4	1024.2	535.6	347.7	102.7
80°	918.5	1033.0	1746.1	3709.3	5608.0	5669.6	1587.6	494.5	371.2	271.5	52.8
82.5°	277.3	283.2	641.2	1640.4	2789.3	2629.4	595.7	252.4	267.0	215.7	30.8
85°	48.4	60.2	189.3	578.1	1063.8	807.0	149.7	120.3	176.1	142.3	17.6
87.5°	2.9	4.4	63.1	66.0	93.9	54.3	26.4	17.6	38.1	38.1	10.3
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°	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0
2.5°	3084.3	3093.1	3087.2	3074.0	3052.0	3025.6	2990.4	2961.0	2936.1	2922.9	2939.0
5°	3103.3	3115.1	3085.7	3019.7	2919.9	2811.3	2688.1	2592.7	2517.9	2494.4	2485.6
7.5°	3132.7	3140.0	3060.8	2914.1	2702.8	2446.0	2221.5	2032.2	1885.5	1841.5	1776.9
10°	3170.8	3166.4	3016.8	2743.8	2372.6	1986.7	1639.0	1380.7	1185.6	1115.1	1109.3
12.5°	3229.5	3206.0	2961.0	2512.0	1979.4	1474.6	1044.7	817.3	694.0	652.9	644.1
15°	3302.9	3247.1	2873.0	2240.6	1515.7	952.3	644.1	575.2	559.0	556.1	553.2
17.5°	3389.5	3301.4	2757.1	1907.5	1065.3	617.7	538.5	537.0	538.5	535.6	534.1
20°	3506.8	3358.6	2619.1	1512.8	704.3	520.9	513.6	513.6	515.0	513.6	513.6
22.5°	3631.6	3426.1	2448.9	1154.8	531.2	494.5	493.0	495.9	498.9	497.4	497.4
25°	3785.6	3514.2	2224.4	790.9	475.4	472.5	473.9	479.8	485.7	487.1	485.7
27.5°	4008.7	3622.8	1983.8	544.4	435.8	438.7	453.4	468.1	476.9	478.3	478.3
30°	4259.6	3743.1	1669.8	441.7	403.5	403.5	421.1	449.0	468.1	471.0	472.5
32.5°	4582.4	3882.5	1322.0	397.6	372.7	369.8	385.9	419.6	454.9	465.1	465.1
35°	4981.5	4046.8	983.1	369.8	350.7	343.3	352.2	380.0	425.5	454.9	457.8
37.5°	5449.5	4202.3	719.0	344.8	330.1	319.9	325.7	347.7	384.4	428.5	440.2
40°	5882.4	4340.3	537.0	324.3	309.6	302.3	306.7	316.9	347.7	388.8	396.2
42.5°	6354.9	4447.4	427.0	302.3	289.1	286.1	286.1	290.5	311.1	334.5	336.0
45°	6825.9	4485.5	358.0	275.9	267.0	270.0	268.5	265.6	274.4	271.5	271.5
47.5°	7161.9	4440.0	296.4	250.9	250.9	255.3	248.0	237.7	233.3	215.7	217.2
50°	7392.3	4274.2	243.6	221.6	233.3	239.2	224.5	208.4	192.2	173.1	168.7
52.5°	7487.6	3979.3	199.6	183.4	206.9	214.2	196.6	177.5	152.6	136.5	132.1
55°	7426.0	3615.4	165.8	149.7	174.6	183.4	165.8	143.8	115.9	98.3	95.4
57.5°	7154.5	3181.1	140.9	118.9	139.4	145.3	133.5	110.0	82.2	64.6	64.6
60°	6685.0	2732.1	114.4	93.9	104.2	113.0	101.2	79.2	55.8	39.6	36.7
62.5°	5732.7	2218.6	92.4	73.4	73.4	80.7	70.4	57.2	35.2	20.5	19.1
65°	4139.2	1521.6	73.4	54.3	52.8	52.8	44.0	38.1	20.5	8.8	5.9
67.5°	2249.4	858.4	58.7	41.1	36.7	35.2	27.9	22.0	8.8	1.5	0.0
70°	884.8	330.1	45.5	27.9	23.5	22.0	14.7	10.3	5.9	0.0	0.0
71°	600.1	227.4	39.6	23.5	19.1	16.1	11.7	8.8	4.4	0.0	0.0
72.5°	343.3	140.9	30.8	17.6	14.7	11.7	8.8	5.9	4.4	0.0	0.0
75°	149.7	71.9	19.1	13.2	10.3	7.3	5.9	4.4	1.5	0.0	0.0
77.5°	76.3	39.6	13.2	10.3	5.9	4.4	2.9	1.5	0.0	0.0	0.0
80°	42.6	20.5	8.8	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0
82.5°	23.5	11.7	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.7	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	2.9	0.0	0.0	0.0	0.0	1.5	1.5	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)