

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: P455808

Luminaire Tested: **GALN-SA7A-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21298 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 215
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

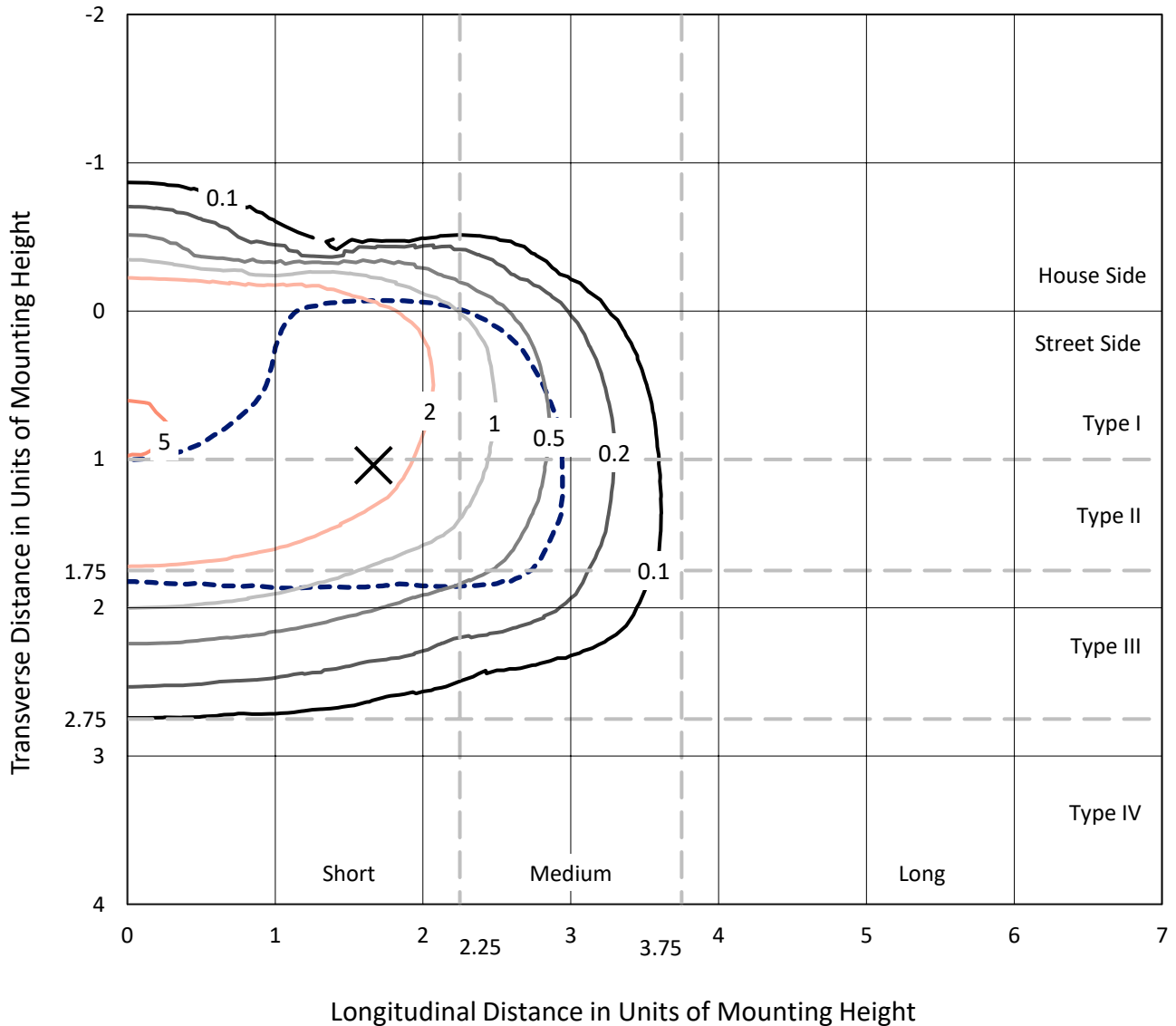




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Iso-Footcandle Lines of Horizontal Illumination

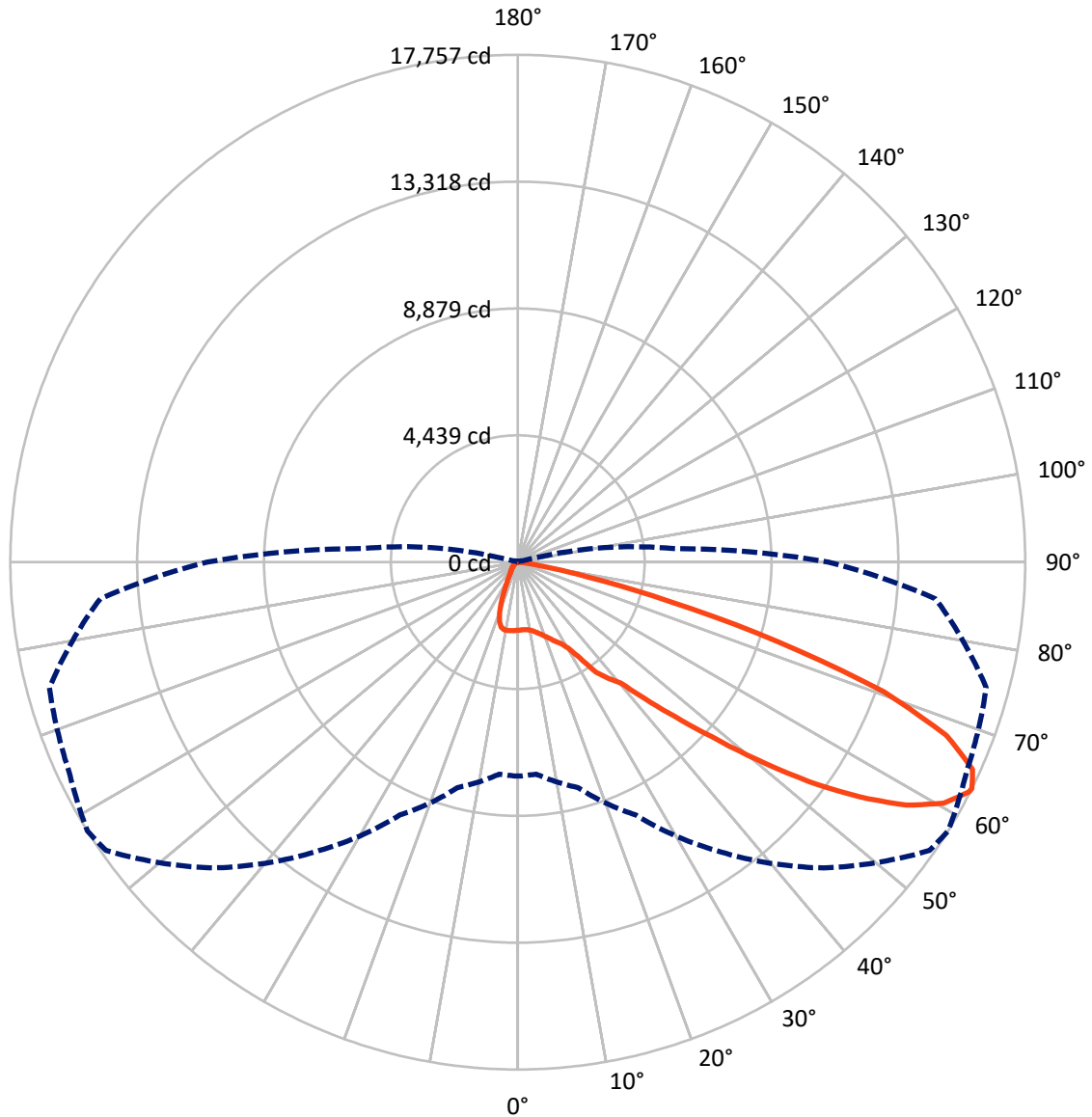
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2205.3	0.0	2205.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19092.7	0.0	19092.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	21298.0	0.0	21298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	1.0
10°-20°	608.0	2.9
20°-30°	1055.1	5.0
30°-40°	1938.9	9.1
40°-50°	3650.0	17.1
50°-60°	6243.0	29.3
60°-70°	5977.6	28.1
70°-80°	1524.3	7.2
80°-90°	77.9	0.4
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°	21298.0	100.0
0°-180°	21298.0	100.0

Coefficient of Utilization



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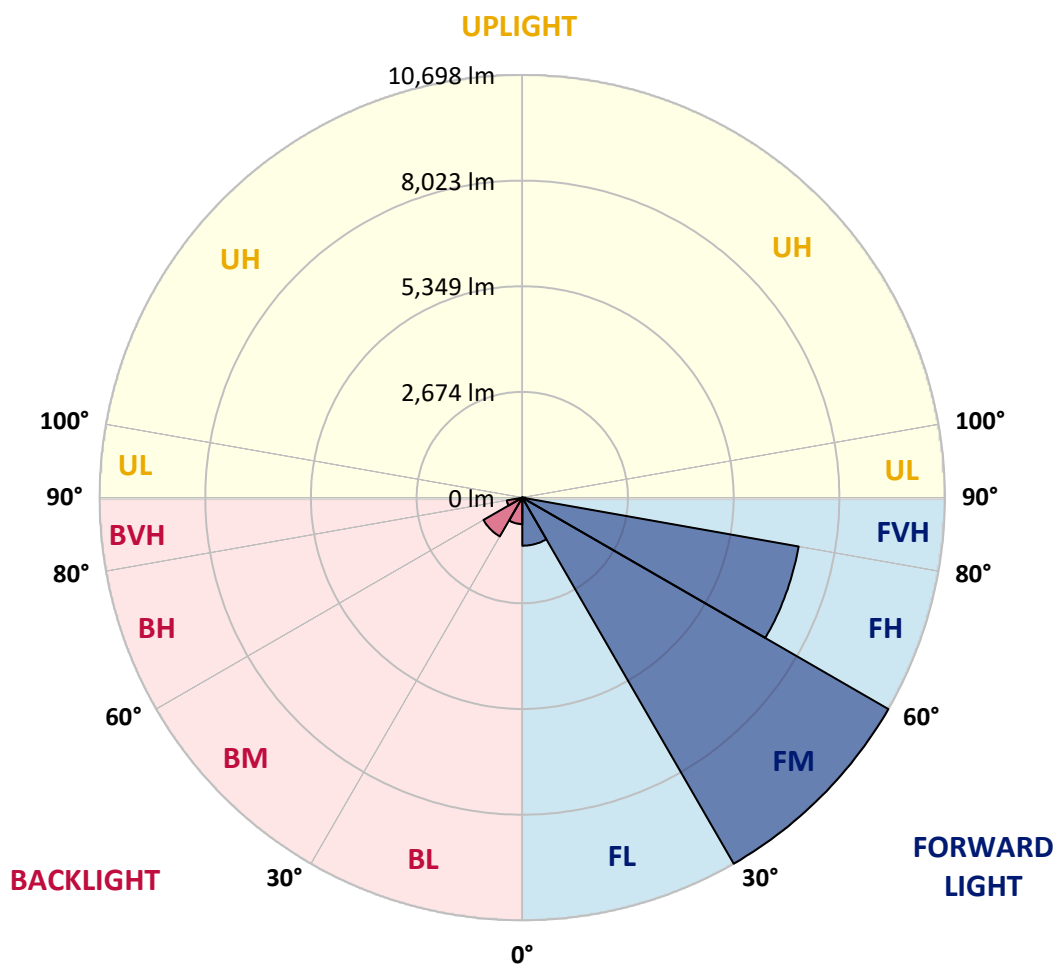
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.5	5.7			
FM (30°-60°)	10697.6	50.2			
FH (60°-80°)	7102.8	33.3			G3/7500
FVH (80°-90°)	74.9	0.4			G1/100
BL (0°-30°)	668.8	3.1	B2/1000		
BM (30°-60°)	1134.3	5.3	B2/2500		
BH (60°-80°)	399.2	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4
2.5°	2325.1	2333.1	2341.1	2344.3	2355.5	2366.8	2374.8	2373.2	2386.0	2392.4	2392.4
5°	2232.1	2232.1	2252.9	2272.1	2304.2	2336.3	2366.8	2373.2	2397.2	2419.7	2427.7
7.5°	2153.5	2158.3	2174.3	2209.6	2252.9	2309.0	2370.0	2384.4	2426.1	2475.8	2496.6
10°	2116.6	2119.8	2140.7	2177.5	2232.1	2309.0	2394.0	2421.3	2485.4	2564.0	2592.8
12.5°	2108.6	2113.4	2134.2	2175.9	2238.5	2331.5	2446.9	2475.8	2568.8	2669.8	2713.1
15°	2123.0	2126.2	2147.1	2192.0	2260.9	2371.6	2517.5	2557.6	2668.2	2785.3	2841.4
17.5°	2174.3	2171.1	2185.6	2222.4	2299.4	2421.3	2602.5	2650.6	2780.5	2940.8	2977.7
20°	2392.4	2371.6	2358.7	2326.7	2357.1	2491.8	2705.1	2775.6	2936.0	3099.6	3125.2
22.5°	2862.2	2815.7	2724.3	2599.3	2503.1	2588.0	2828.6	2910.3	3117.2	3277.5	3277.5
25°	3460.3	3401.0	3309.6	3037.0	2801.3	2746.8	2968.1	3070.7	3314.4	3476.4	3423.5
27.5°	4209.2	4162.7	3984.7	3667.2	3306.4	3024.2	3130.0	3224.6	3489.2	3684.8	3574.2
30°	4818.5	4796.0	4650.1	4366.3	3968.6	3556.5	3431.5	3494.0	3721.7	3947.8	3834.0
32.5°	5333.2	5333.2	5184.1	4919.5	4547.5	4181.9	3943.0	3987.9	4206.0	4467.3	4255.7
35°	5899.2	5880.0	5759.7	5508.0	5091.1	4768.8	4671.0	4731.9	4929.1	5123.2	4602.0
37.5°	6494.1	6487.7	6362.7	6118.9	5779.0	5373.3	5144.0	5160.0	5261.1	5379.7	5007.7
40°	7140.4	7150.0	6986.4	6835.7	6515.0	6099.7	5660.3	5559.3	5653.9	5989.0	5756.5
42.5°	7903.6	7881.2	7810.6	7605.4	7347.2	7098.7	6571.1	6534.2	6617.6	6976.8	6725.0
45°	8790.3	8822.4	8700.6	8586.7	8413.5	8206.7	7765.7	7701.6	7793.0	8351.0	7993.4
47.5°	9678.7	9648.2	9726.8	9705.9	9798.9	9645.0	9255.4	9123.9	9343.6	9872.7	9346.8
50°	10355.4	10389.0	10552.6	10791.5	11190.8	11277.4	10903.7	10858.9	10956.7	11296.6	10557.4
52.5°	10794.7	10907.0	11163.5	11777.7	12497.6	13057.2	12773.4	12749.4	12709.3	12800.7	11715.1
55°	11081.7	11195.6	11530.7	12435.1	13674.6	14583.8	14598.2	14495.6	14231.0	14165.3	12797.5
57.5°	10905.4	10927.8	11405.6	12614.7	14327.2	15672.5	16144.0	16041.3	15552.3	15303.7	13753.2
60°	9802.2	9848.7	10514.1	11934.8	14043.4	16028.5	17168.6	17122.1	16586.5	16305.9	14497.2
62.5°	7847.5	7982.2	8666.9	10251.1	12723.7	15428.8	17583.9	17715.4	17298.5	16912.0	14731.3
63°	7488.3	7445.0	8168.2	9760.5	12374.2	15132.2	17590.3	17757.1	17330.5	16969.8	14667.1
65°	5543.3	5673.2	6143.0	7696.8	10297.6	13751.6	17194.3	17489.3	17211.9	16714.8	13956.8
67.5°	3112.4	3106.0	3625.5	5036.6	7207.7	10786.7	15547.5	16171.2	16113.5	14999.1	11569.2
70°	1523.3	1547.4	1760.6	2610.5	4180.3	7441.8	12919.3	13592.8	13613.7	11780.9	7999.8
72.5°	689.5	700.7	853.1	1271.6	2148.7	3962.2	8902.6	9545.6	9426.9	7507.6	4417.6
75°	364.0	388.0	469.8	639.8	1035.9	1634.0	4842.5	5464.7	5216.2	3429.9	1625.9
77.5°	269.4	277.4	319.1	407.3	554.8	636.6	2089.4	2485.4	2328.3	1241.1	538.8
80°	197.2	203.6	237.3	288.6	349.6	323.9	787.3	902.8	809.8	421.7	165.2
82.5°	120.3	121.9	173.2	214.9	219.7	181.2	259.8	279.0	291.8	237.3	89.8
85°	43.3	54.5	117.1	155.5	129.9	91.4	109.0	120.3	131.5	150.7	52.9
87.5°	4.8	6.4	56.1	75.4	36.9	33.7	40.1	44.9	48.1	56.1	25.7
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°	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4	2384.4
2.5°	2398.8	2405.2	2400.4	2392.4	2390.8	2386.0	2376.4	2376.4	2376.4	2379.6	2376.4
5°	2434.1	2438.9	2427.7	2411.7	2394.0	2371.6	2347.5	2333.1	2331.5	2328.3	2320.3
7.5°	2501.4	2507.9	2482.2	2443.7	2395.6	2341.1	2289.8	2241.7	2219.2	2201.6	2201.6
10°	2599.3	2605.7	2554.4	2485.4	2389.2	2278.6	2156.7	2046.1	1959.5	1919.4	1909.8
12.5°	2716.3	2719.5	2634.5	2514.3	2355.5	2142.3	1882.5	1640.4	1472.0	1395.0	1387.0
15°	2844.6	2822.1	2709.9	2525.5	2259.3	1861.7	1412.7	1116.0	941.3	889.9	909.2
17.5°	2974.5	2932.8	2767.6	2507.9	2042.8	1412.7	949.3	761.7	707.1	692.7	692.7
20°	3096.3	3038.6	2809.3	2430.9	1667.6	973.3	703.9	659.0	649.4	639.8	641.4
22.5°	3218.2	3130.0	2846.2	2259.3	1242.7	695.9	630.2	615.7	602.9	590.1	588.5
25°	3336.9	3215.0	2860.6	1941.8	846.6	598.1	575.7	556.4	530.8	516.3	513.1
27.5°	3460.3	3317.6	2851.0	1541.0	617.3	535.6	513.1	485.9	455.4	429.7	429.7
30°	3697.7	3513.3	2817.3	1108.0	519.5	471.4	442.6	399.3	365.6	339.9	338.3
32.5°	4021.6	3768.2	2701.9	779.3	461.8	415.3	372.0	323.9	288.6	269.4	269.4
35°	4310.2	4024.8	2485.4	574.1	415.3	360.8	307.9	261.4	234.1	221.3	216.5
37.5°	4749.5	4400.0	2187.2	466.6	370.4	312.7	258.2	214.9	192.4	182.8	182.8
40°	5408.6	4858.6	1821.6	408.9	327.1	266.2	214.9	181.2	163.6	152.3	152.3
42.5°	6226.4	5419.8	1451.2	367.2	287.0	229.3	179.6	153.9	137.9	129.9	128.3
45°	7255.8	6011.5	1117.6	328.7	255.0	195.6	152.3	129.9	113.8	109.0	110.6
47.5°	8330.1	6532.6	865.9	295.0	221.3	165.2	129.9	112.2	101.0	94.6	94.6
50°	9247.3	6891.8	657.4	256.6	195.6	139.5	113.8	101.0	91.4	88.2	86.6
52.5°	10013.8	6996.0	503.5	222.9	171.6	120.3	101.0	91.4	83.4	78.6	78.6
55°	10666.4	6904.6	394.5	187.6	144.3	104.2	89.8	81.8	72.2	67.3	65.7
57.5°	11048.1	6611.2	301.5	155.5	117.1	86.6	78.6	69.0	57.7	49.7	49.7
60°	11240.5	6184.7	230.9	128.3	89.8	69.0	64.1	51.3	40.1	33.7	32.1
62.5°	11009.6	5618.6	174.8	101.0	67.3	51.3	43.3	36.9	25.7	19.2	19.2
63°	10866.9	5455.1	168.4	96.2	62.5	48.1	40.1	33.7	22.4	17.6	16.0
65°	9906.4	4741.5	137.9	77.0	49.7	33.7	27.3	24.1	16.0	8.0	6.4
67.5°	7866.7	3627.1	109.0	57.7	35.3	24.1	16.0	14.4	4.8	0.0	0.0
70°	5318.8	2342.7	85.0	41.7	24.1	14.4	8.0	6.4	1.6	0.0	0.0
72.5°	2774.0	1201.0	65.7	30.5	14.4	9.6	4.8	1.6	0.0	0.0	0.0
75°	981.3	408.9	48.1	19.2	9.6	4.8	1.6	0.0	0.0	0.0	0.0
77.5°	296.6	152.3	30.5	14.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	104.2	56.1	17.6	9.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	51.3	27.3	11.2	8.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0
85°	28.9	17.6	9.6	8.0	4.8	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	20.8	12.8	9.6	8.0	6.4	3.2	1.6	0.0	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)