

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: P455837

Luminaire Tested: **GALN-SA7A-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455837
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-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 23386 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

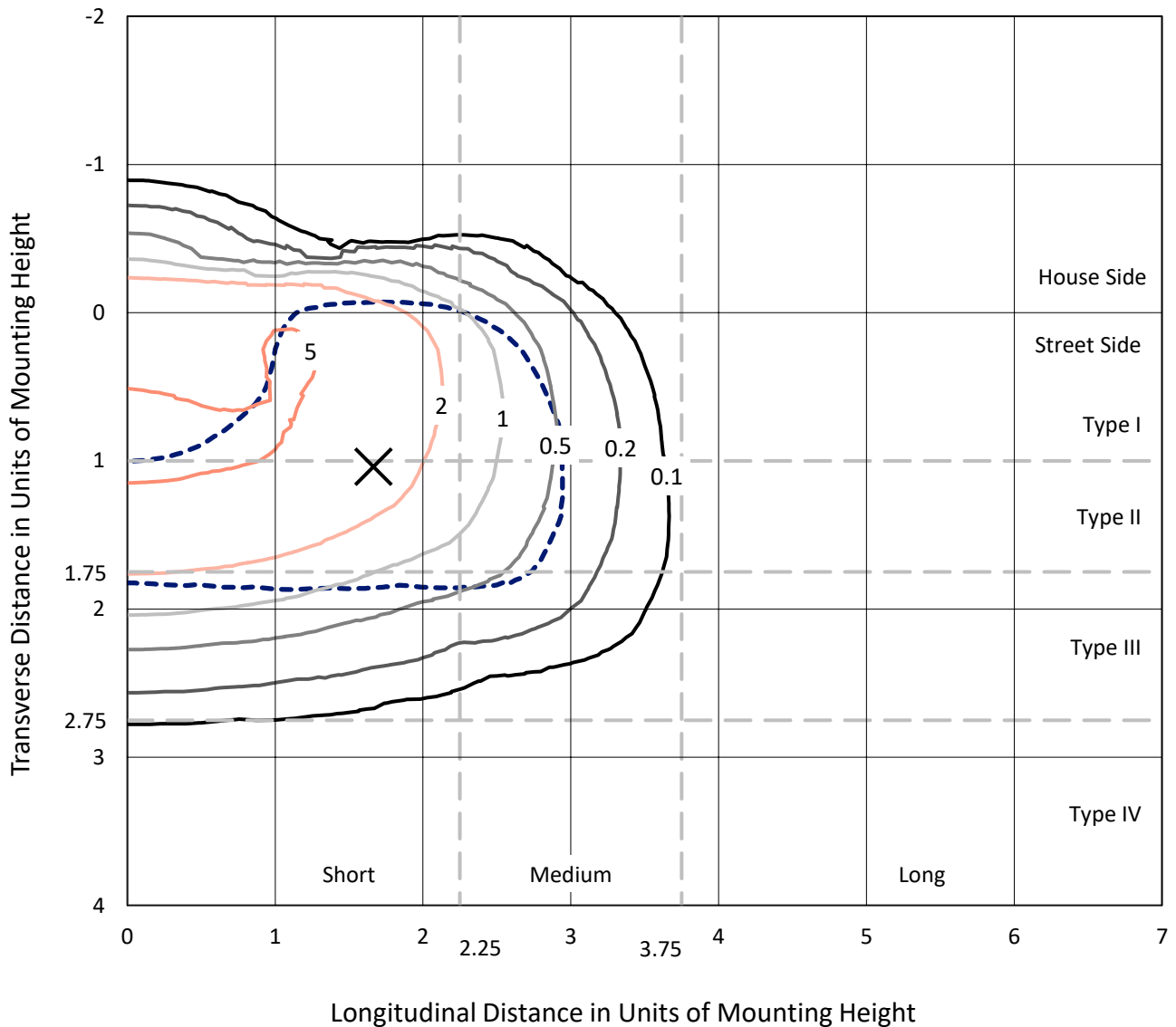
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

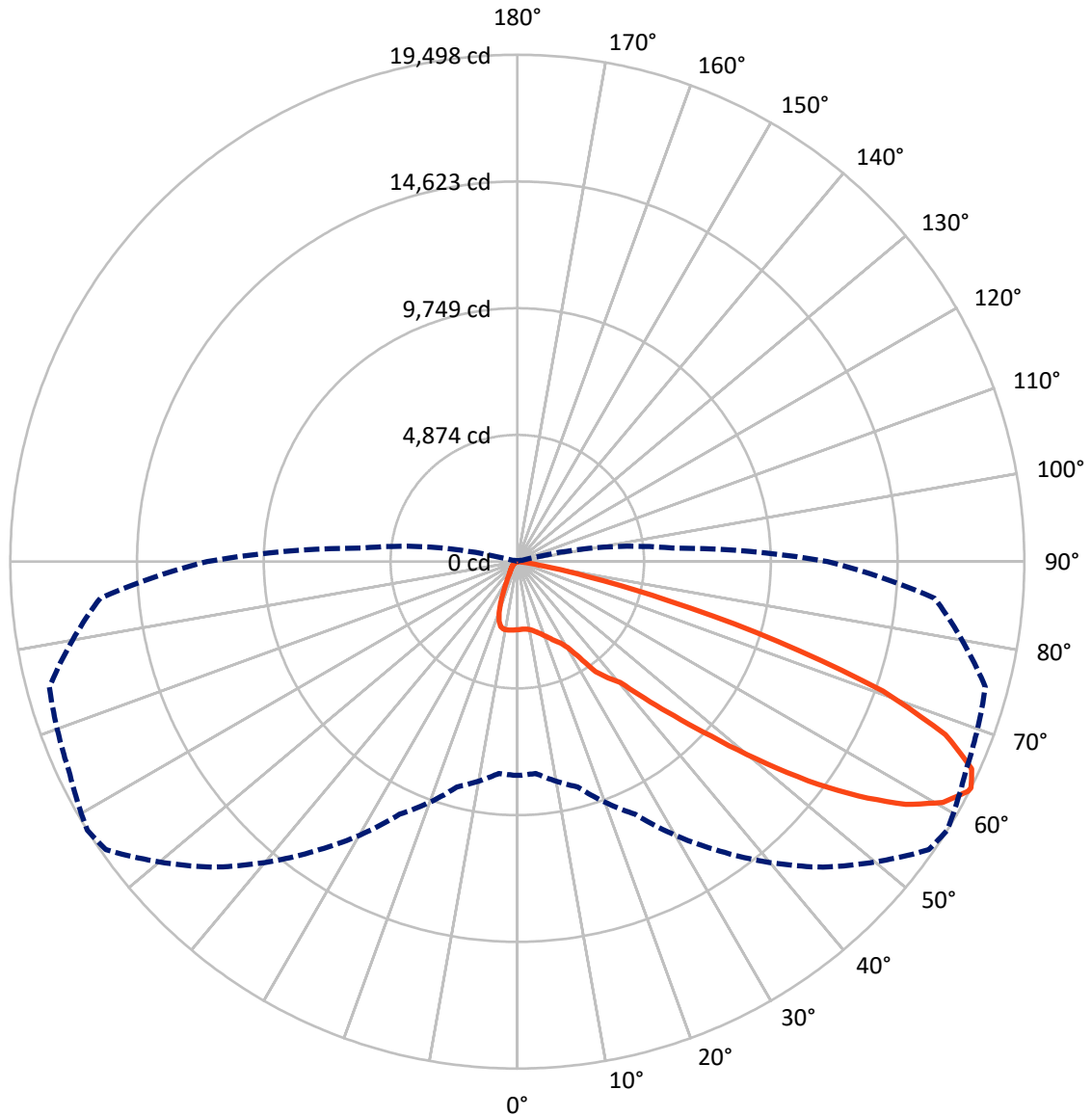
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2421.5	0.0	2421.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20964.5	0.0	20964.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	23386.0	0.0	23386.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	1.0
10°-20°	667.6	2.9
20°-30°	1158.6	5.0
30°-40°	2129.0	9.1
40°-50°	4007.8	17.1
50°-60°	6855.0	29.3
60°-70°	6563.7	28.1
70°-80°	1673.8	7.2
80°-90°	85.6	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°	23386.0	100.0
0°-180°	23386.0	100.0



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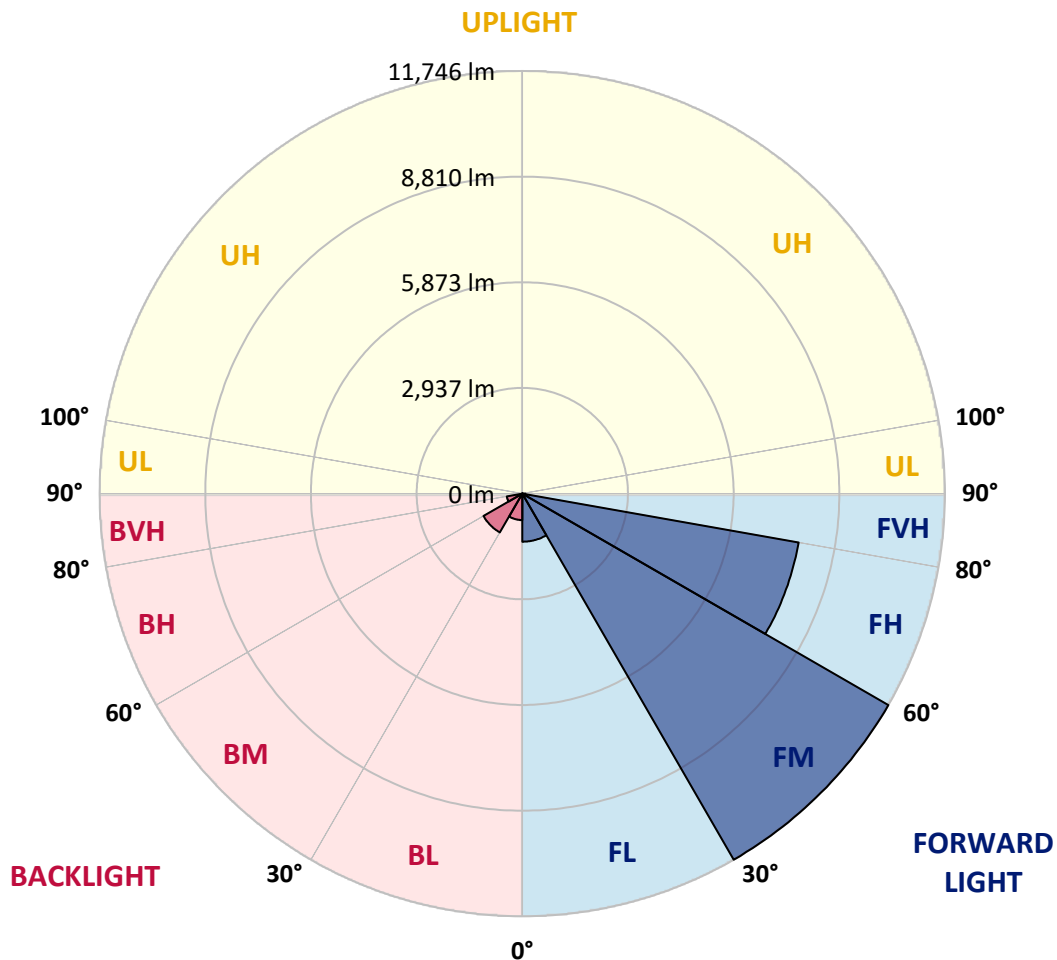
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1336.8	5.7			
FM	(30°-60°)	11746.3	50.2			
FH	(60°-80°)	7799.1	33.3			G4/12000
FVH	(80°-90°)	82.3	0.4			G1/100
BL	(0°-30°)	734.4	3.1	B2/1000		
BM	(30°-60°)	1245.5	5.3	B2/2500		
BH	(60°-80°)	438.3	1.9	B1/500		G1/500
BVH	(80°-90°)	3.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2
2.5°	2553.0	2561.8	2570.6	2574.1	2586.5	2598.8	2607.6	2605.8	2619.9	2627.0	2627.0
5°	2450.9	2450.9	2473.8	2494.9	2530.1	2565.3	2598.8	2605.8	2632.2	2656.9	2665.7
7.5°	2364.6	2369.9	2387.5	2426.2	2473.8	2535.4	2602.3	2618.2	2663.9	2718.5	2741.4
10°	2324.1	2327.6	2350.5	2391.0	2450.9	2535.4	2628.7	2658.6	2729.1	2815.4	2847.0
12.5°	2315.3	2320.6	2343.5	2389.3	2457.9	2560.1	2686.8	2718.5	2820.6	2931.6	2979.1
15°	2331.2	2334.7	2357.6	2406.9	2482.6	2604.1	2764.3	2808.3	2929.8	3058.3	3120.0
17.5°	2387.5	2384.0	2399.8	2440.3	2524.8	2658.6	2857.6	2910.4	3053.0	3229.1	3269.6
20°	2627.0	2604.1	2590.0	2554.8	2588.2	2736.1	2970.3	3047.8	3223.8	3403.4	3431.6
22.5°	3142.8	3091.8	2991.4	2854.1	2748.4	2841.8	3105.9	3195.7	3422.8	3598.9	3598.9
25°	3799.6	3734.4	3634.1	3334.8	3075.9	3016.1	3259.0	3371.7	3639.4	3817.2	3759.1
27.5°	4621.8	4570.8	4375.3	4026.7	3630.6	3320.7	3436.9	3540.8	3831.3	4046.1	3924.6
30°	5290.9	5266.2	5106.0	4794.4	4357.7	3905.2	3767.9	3836.6	4086.6	4334.8	4209.8
32.5°	5856.1	5856.1	5692.3	5401.8	4993.3	4591.9	4329.5	4378.8	4618.3	4905.3	4672.9
35°	6477.6	6456.5	6324.4	6048.0	5590.2	5236.3	5128.9	5195.8	5412.4	5625.4	5053.2
37.5°	7130.8	7123.8	6986.4	6718.8	6345.5	5900.1	5648.3	5665.9	5776.8	5907.1	5498.6
40°	7840.4	7850.9	7671.3	7505.8	7153.7	6697.7	6215.3	6104.3	6208.2	6576.2	6320.9
42.5°	8678.5	8653.8	8576.3	8351.0	8067.5	7794.6	7215.3	7174.8	7266.4	7660.8	7384.4
45°	9652.1	9687.3	9553.5	9428.5	9238.4	9011.2	8527.0	8456.6	8557.0	9169.7	8777.1
47.5°	10627.6	10594.1	10680.4	10657.5	10759.6	10590.6	10162.7	10018.4	10259.6	10840.6	10263.1
50°	11370.6	11407.5	11587.1	11849.5	12287.9	12383.0	11972.7	11923.4	12030.8	12404.1	11592.4
52.5°	11853.0	11976.2	12258.0	12932.3	13722.9	14337.3	14025.7	13999.3	13955.3	14055.6	12863.6
55°	12168.2	12293.2	12661.2	13654.2	15015.2	16013.5	16029.4	15916.7	15626.2	15554.0	14052.1
57.5°	11974.5	11999.1	12523.8	13851.4	15731.8	17209.0	17726.7	17614.0	17077.0	16804.1	15101.5
60°	10763.1	10814.2	11544.9	13104.9	15420.2	17599.9	18851.8	18800.7	18212.6	17904.5	15918.4
62.5°	8616.8	8764.7	9516.6	11256.1	13971.1	16941.4	19307.8	19452.2	18994.4	18570.0	16175.5
63°	8222.4	8174.9	8969.0	10717.3	13587.3	16615.7	19314.8	19497.9	19029.6	18633.4	16105.1
65°	6086.7	6229.3	6745.2	8451.3	11307.2	15099.7	18879.9	19203.9	18899.3	18353.5	15325.1
67.5°	3417.5	3410.5	3980.9	5530.3	7914.3	11844.2	17071.7	17756.6	17693.2	16469.5	12703.4
70°	1672.7	1699.1	1933.2	2866.4	4590.1	8171.4	14185.9	14925.4	14948.3	12935.8	8784.1
72.5°	757.1	769.4	936.7	1396.2	2359.3	4350.7	9775.4	10481.4	10351.1	8243.6	4850.7
75°	399.7	426.1	515.9	702.5	1137.4	1794.1	5317.3	6000.4	5727.5	3766.1	1785.3
77.5°	295.8	304.6	350.4	447.2	609.2	699.0	2294.2	2729.1	2556.5	1362.8	591.6
80°	216.6	223.6	260.6	316.9	383.8	355.7	864.5	991.3	889.2	463.1	181.4
82.5°	132.1	133.8	190.2	235.9	241.2	199.0	285.2	306.4	320.4	260.6	98.6
85°	47.5	59.9	128.5	170.8	142.6	100.4	119.7	132.1	144.4	165.5	58.1
87.5°	5.3	7.0	61.6	82.8	40.5	37.0	44.0	49.3	52.8	61.6	28.2
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°	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2
2.5°	2634.0	2641.0	2635.8	2627.0	2625.2	2619.9	2609.3	2609.3	2609.3	2612.9	2609.3
5°	2672.7	2678.0	2665.7	2648.1	2628.7	2604.1	2577.7	2561.8	2560.1	2556.5	2547.7
7.5°	2746.7	2753.7	2725.6	2683.3	2630.5	2570.6	2514.3	2461.5	2436.8	2417.4	2417.4
10°	2854.1	2861.1	2804.8	2729.1	2623.4	2501.9	2368.1	2246.6	2151.6	2107.6	2097.0
12.5°	2982.6	2986.1	2892.8	2760.8	2586.5	2352.3	2067.1	1801.2	1616.3	1531.8	1523.0
15°	3123.5	3098.8	2975.6	2773.1	2480.8	2044.2	1551.2	1225.4	1033.5	977.2	998.3
17.5°	3266.1	3220.3	3039.0	2753.7	2243.1	1551.2	1042.3	836.3	776.5	760.6	760.6
20°	3399.9	3336.5	3084.7	2669.2	1831.1	1068.7	772.9	723.6	713.1	702.5	704.3
22.5°	3533.7	3436.9	3125.2	2480.8	1364.5	764.1	692.0	676.1	662.0	647.9	646.2
25°	3664.0	3530.2	3141.1	2132.2	929.6	656.7	632.1	611.0	582.8	566.9	563.4
27.5°	3799.6	3642.9	3130.5	1692.0	677.9	588.1	563.4	533.5	500.0	471.9	471.9
30°	4060.2	3857.7	3093.5	1216.6	570.5	517.6	486.0	438.4	401.4	373.3	371.5
32.5°	4415.8	4137.6	2966.8	855.7	507.1	456.0	408.5	355.7	316.9	295.8	295.8
35°	4732.7	4419.3	2729.1	630.3	456.0	396.2	338.1	287.0	257.1	243.0	237.7
37.5°	5215.2	4831.3	2401.6	512.4	406.7	343.3	283.5	235.9	211.3	200.7	200.7
40°	5938.8	5334.9	2000.1	449.0	359.2	292.3	235.9	199.0	179.6	167.3	167.3
42.5°	6836.8	5951.1	1593.4	403.2	315.2	251.8	197.2	169.0	151.4	142.6	140.9
45°	7967.1	6600.8	1227.2	360.9	280.0	214.8	167.3	142.6	125.0	119.7	121.5
47.5°	9146.8	7173.1	950.8	324.0	243.0	181.4	142.6	123.2	110.9	103.9	103.9
50°	10153.9	7567.5	721.9	281.7	214.8	153.2	125.0	110.9	100.4	96.8	95.1
52.5°	10995.5	7681.9	552.9	244.7	188.4	132.1	110.9	100.4	91.6	86.3	86.3
55°	11712.1	7581.6	433.1	206.0	158.5	114.4	98.6	89.8	79.2	73.9	72.2
57.5°	12131.2	7259.3	331.0	170.8	128.5	95.1	86.3	75.7	63.4	54.6	54.6
60°	12342.5	6791.0	253.5	140.9	98.6	75.7	70.4	56.3	44.0	37.0	35.2
62.5°	12088.9	6169.5	191.9	110.9	73.9	56.3	47.5	40.5	28.2	21.1	21.1
63°	11932.2	5989.9	184.9	105.6	68.7	52.8	44.0	37.0	24.6	19.4	17.6
65°	10877.6	5206.4	151.4	84.5	54.6	37.0	29.9	26.4	17.6	8.8	7.0
67.5°	8638.0	3982.7	119.7	63.4	38.7	26.4	17.6	15.8	5.3	0.0	0.0
70°	5840.2	2572.4	93.3	45.8	26.4	15.8	8.8	7.0	1.8	0.0	0.0
72.5°	3046.0	1318.8	72.2	33.5	15.8	10.6	5.3	1.8	0.0	0.0	0.0
75°	1077.5	449.0	52.8	21.1	10.6	5.3	1.8	0.0	0.0	0.0	0.0
77.5°	325.7	167.3	33.5	15.8	7.0	3.5	0.0	0.0	0.0	0.0	0.0
80°	114.4	61.6	19.4	10.6	5.3	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	56.3	29.9	12.3	8.8	5.3	1.8	0.0	0.0	0.0	0.0	0.0
85°	31.7	19.4	10.6	8.8	5.3	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	22.9	14.1	10.6	8.8	7.0	3.5	1.8	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)