

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: STREETWORKS

Report Number: P482433

Luminaire Tested: **IFLD-L-SA7B-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482433
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

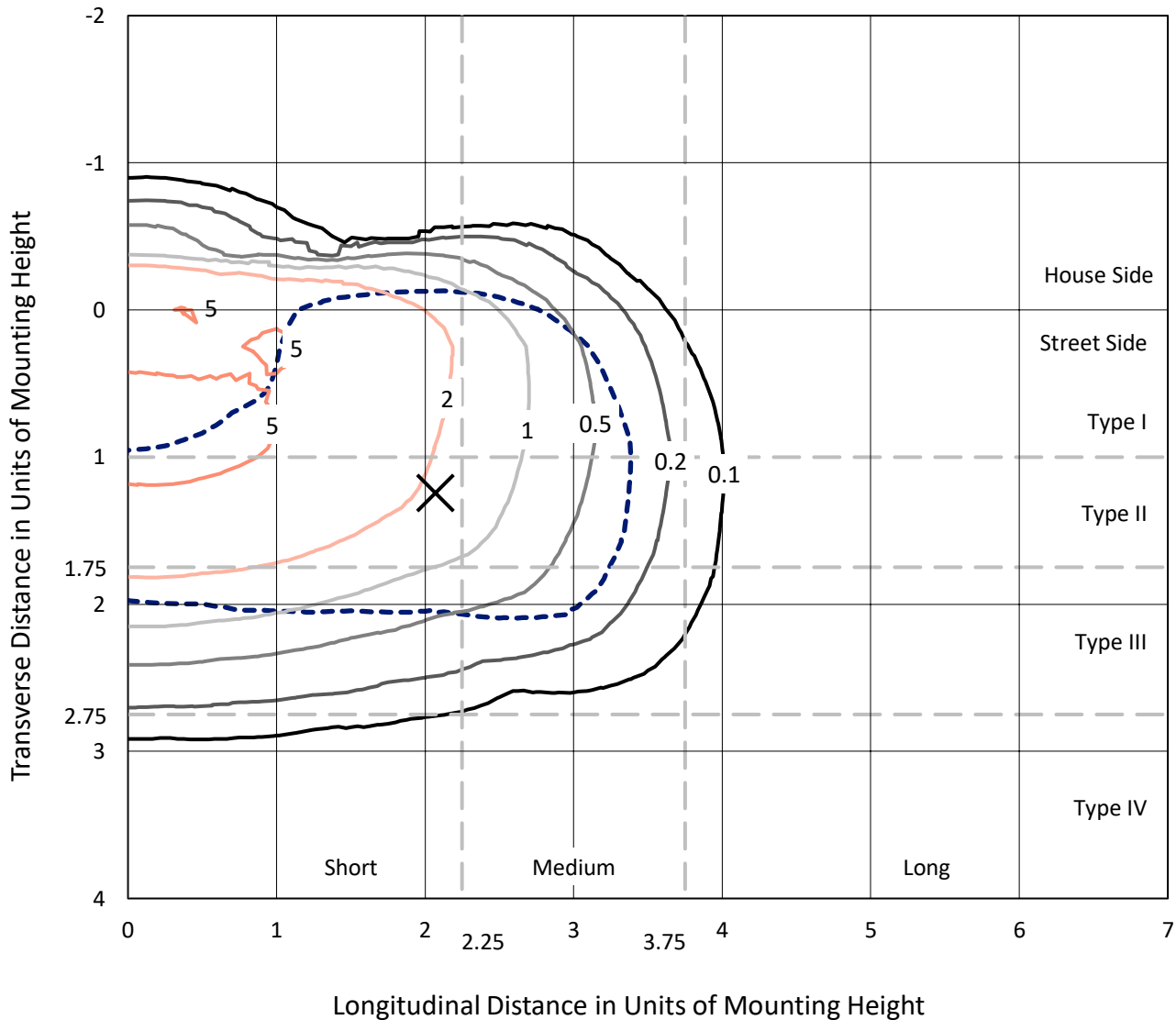
Lumens per Lamp: N/A
Luminaire Lumens: 26063 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
Input Voltage (V): 120
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

REPORT NUMBER: P482433
 CATALOG NUMBER: IFLD-L-SA7B-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

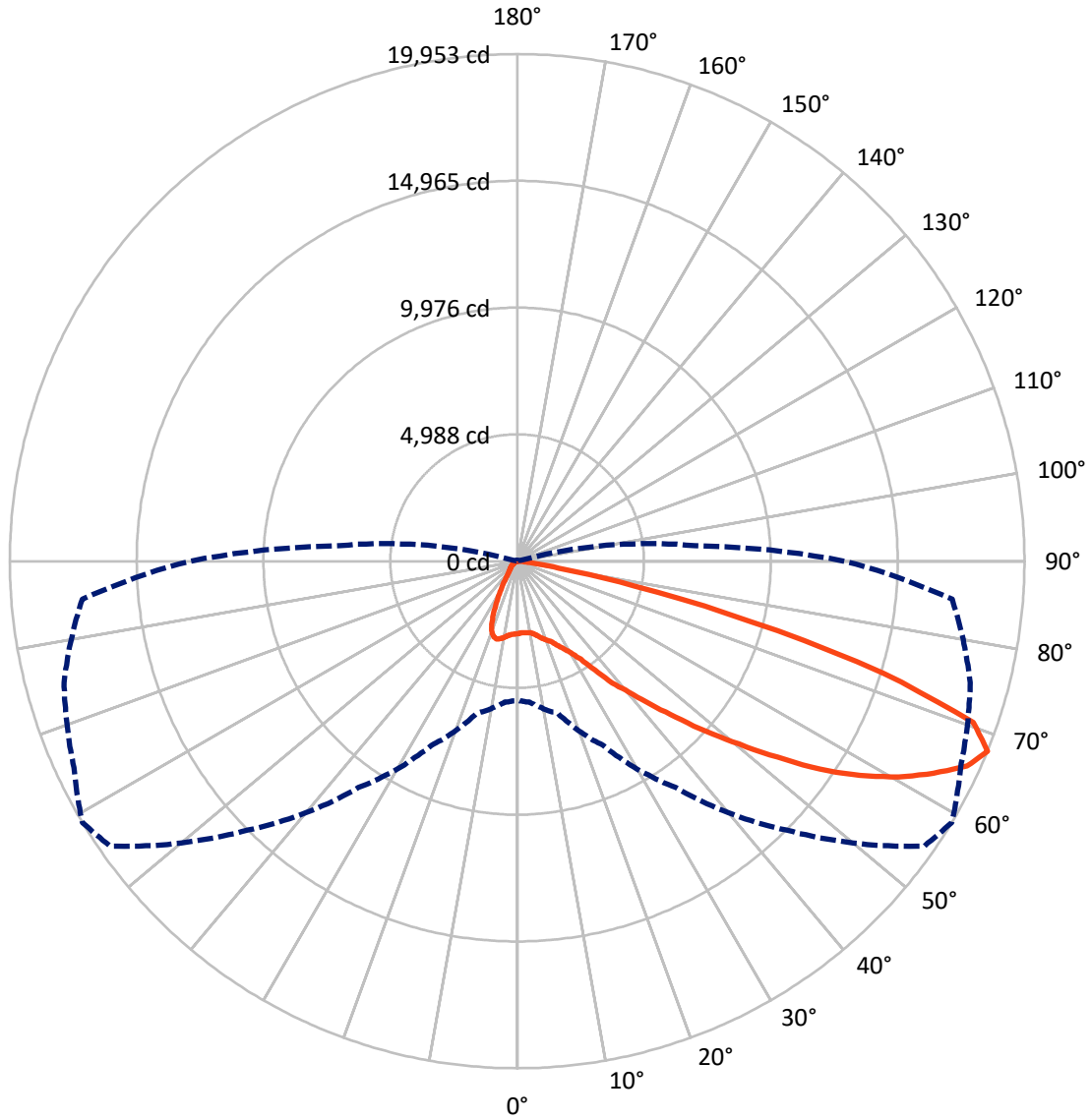
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

REPORT NUMBER: P482433
CATALOG NUMBER: IFLD-L-SA7B-735-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3061.5	0.0	3061.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	23001.5	0.0	23001.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	26063.0	0.0	26063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.0
10°-20°	784.4	3.0
20°-30°	1370.9	5.3
30°-40°	2413.6	9.3
40°-50°	4266.5	16.4
50°-60°	6755.4	25.9
60°-70°	7493.6	28.8
70°-80°	2600.1	10.0
80°-90°	107.1	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°	26063.0	100.0
0°-180°	26063.0	100.0

Coefficient of Utilization

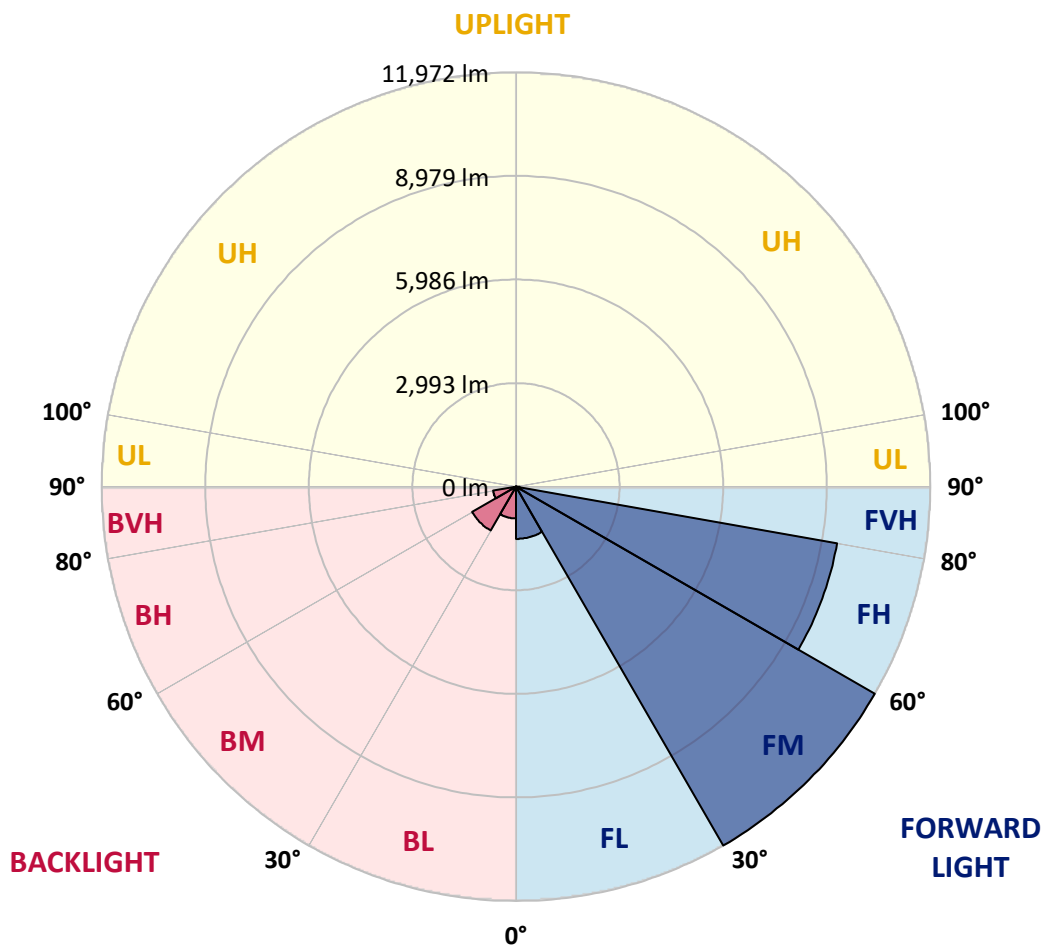


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.2	5.8			
FM (30°-60°)	11971.7	45.9			
FH (60°-80°)	9420.4	36.1			G4/12000
FVH (80°-90°)	100.1	0.4			G2/225
BL (0°-30°)	917.6	3.5	B2/1000		
BM (30°-60°)	1463.7	5.6	B2/2500		
BH (60°-80°)	673.3	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.9	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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CATALOG NUMBER: IFLD-L-SA7B-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6
2.5°	2775.8	2736.2	2772.2	2775.8	2779.4	2811.8	2847.8	2822.6	2819.0	2847.8	2873.0
5°	2664.2	2646.2	2689.4	2711.0	2747.0	2775.8	2833.4	2837.0	2840.6	2873.0	2916.2
7.5°	2617.4	2574.2	2624.6	2649.8	2675.0	2743.4	2811.8	2847.8	2898.2	2937.9	2981.1
10°	2523.8	2556.2	2570.6	2613.8	2685.8	2765.0	2847.8	2865.8	2977.5	3009.9	3114.3
12.5°	2556.2	2577.8	2606.6	2617.4	2696.6	2815.4	2927.0	2934.2	3049.5	3189.9	3243.9
15°	2639.0	2624.6	2635.4	2649.8	2743.4	2840.6	3020.7	3053.1	3161.1	3319.5	3452.7
17.5°	2815.4	2790.2	2772.2	2768.6	2790.2	2880.2	3092.7	3189.9	3290.7	3506.7	3575.1
20°	3258.3	3236.7	3164.7	2977.5	2912.6	2948.7	3179.1	3315.9	3456.3	3697.5	3809.1
22.5°	3931.5	3953.1	3783.9	3521.1	3251.1	3110.7	3315.9	3434.7	3657.9	3963.9	4064.7
25°	4727.2	4684.0	4478.8	4172.8	3747.9	3416.7	3535.5	3668.7	3942.3	4194.4	4234.0
27.5°	5350.1	5299.7	5141.2	4770.4	4403.2	3866.7	3823.5	3906.3	4230.4	4457.2	4414.0
30°	5965.7	5983.7	5875.7	5436.5	4982.8	4417.6	4144.0	4180.0	4428.4	4720.0	4622.8
32.5°	6750.6	6707.4	6646.2	6260.9	5724.5	5119.6	4651.6	4594.0	4702.0	5087.2	4972.0
35°	7481.4	7456.2	7373.4	6984.6	6516.6	5857.7	5400.5	5270.8	5245.6	5674.1	5472.5
37.5°	8118.7	8075.5	7949.5	7701.1	7247.4	6693.0	6192.5	6077.3	6073.7	6368.9	5980.1
40°	8655.1	8687.5	8673.1	8399.5	8151.1	7708.3	6941.4	6757.8	6743.4	6901.8	6675.0
42.5°	9350.0	9425.6	9386.0	9332.0	9033.2	8860.4	7992.7	7711.9	7585.8	7909.9	7704.7
45°	10401.3	10430.1	10455.3	10322.1	10023.3	10059.3	9080.0	8745.1	8712.7	9195.2	8734.3
47.5°	11384.2	11308.6	11485.0	11492.2	11477.8	11312.2	10253.7	10005.3	10048.5	10415.7	9940.4
50°	11629.0	11823.4	12309.4	12399.5	12633.5	12784.7	11557.0	11308.6	11380.6	11798.2	11254.6
52.5°	11819.8	12115.0	12601.1	13259.9	13890.0	14250.0	13015.1	12813.5	12809.9	13065.5	12316.6
55°	12154.6	12334.7	12755.9	13663.2	14862.1	15452.5	14772.1	14448.0	14156.4	14336.4	13418.3
57.5°	12122.2	12190.6	12845.9	13965.6	15632.5	16705.4	16215.8	15906.2	15531.7	15427.3	14685.7
60°	11553.4	11715.4	12449.9	13760.4	16107.8	17681.1	17562.3	17245.5	16601.0	16356.2	15657.7
62.5°	10426.5	10642.5	11218.6	13040.3	15416.5	17731.5	18491.2	18372.4	17652.3	17213.1	16925.0
65°	8449.9	8550.7	9213.2	11211.4	13854.0	16957.4	19589.3	19441.7	18779.2	18123.9	17576.7
67.5°	5472.5	5569.7	6206.9	8003.5	10880.1	14959.3	19546.1	19952.9	19236.4	18448.0	17169.9
70°	2585.0	2559.8	3153.9	4446.4	6970.2	11423.8	18224.8	19027.6	18419.2	16723.4	14260.8
72.5°	788.5	856.9	1310.5	1969.4	3578.7	7125.0	14286.0	15038.5	14847.7	13360.7	9519.2
75°	349.2	378.0	514.8	806.5	1450.9	2923.4	8824.4	9494.0	9411.2	7881.1	4345.6
77.5°	223.2	244.8	324.0	460.8	658.9	928.9	4064.7	4716.4	4572.4	2768.6	1137.7
80°	158.4	169.2	230.4	316.8	414.0	381.6	1400.5	1663.3	1594.9	752.5	306.0
82.5°	86.4	93.6	169.2	234.0	277.2	194.4	392.4	489.6	511.2	334.8	147.6
85°	32.4	39.6	104.4	165.6	144.0	90.0	115.2	140.4	183.6	183.6	68.4
87.5°	0.0	3.6	43.2	72.0	36.0	25.2	32.4	39.6	50.4	86.4	25.2
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°	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6	2858.6
2.5°	2891.0	2865.8	2876.6	2894.6	2855.0	2876.6	2833.4	2865.8	2876.6	2833.4	2855.0
5°	2927.0	2952.3	2937.9	2909.0	2883.8	2891.0	2880.2	2855.0	2876.6	2883.8	2869.4
7.5°	3031.5	3002.7	3009.9	2977.5	2927.0	2923.4	2855.0	2837.0	2844.2	2851.4	2826.2
10°	3128.7	3146.7	3110.7	3085.5	3002.7	2948.7	2855.0	2754.2	2743.4	2700.2	2736.2
12.5°	3301.5	3258.3	3243.9	3161.1	3078.3	2898.2	2696.6	2541.8	2412.2	2365.4	2318.6
15°	3445.5	3438.3	3413.1	3287.1	3096.3	2768.6	2387.0	2027.0	1778.6	1623.7	1602.1
17.5°	3643.5	3611.1	3564.3	3366.3	2963.1	2430.2	1778.6	1324.9	1076.5	979.3	943.3
20°	3794.7	3769.5	3704.7	3348.3	2721.8	1811.0	1101.7	842.5	781.3	763.3	766.9
22.5°	4014.3	3935.1	3812.7	3258.3	2282.6	1206.1	792.1	752.5	741.7	727.3	730.9
25°	4205.2	4133.2	3877.5	3103.5	1627.3	799.3	734.5	712.9	694.9	676.9	673.3
27.5°	4374.4	4284.4	3945.9	2786.6	1018.9	687.7	680.5	655.3	619.3	590.5	579.6
30°	4540.0	4435.6	3963.9	2192.6	687.7	622.9	604.9	565.2	518.4	478.8	471.6
32.5°	4817.2	4691.2	3938.7	1566.1	594.1	554.4	514.8	468.0	399.6	367.2	360.0
35°	5249.2	5058.4	3906.3	921.7	532.8	489.6	428.4	367.2	316.8	284.4	277.2
37.5°	5746.1	5414.9	3812.7	615.7	489.6	432.0	352.8	291.6	248.4	223.2	216.0
40°	6484.2	5936.9	3452.7	504.0	435.6	367.2	284.4	230.4	198.0	180.0	172.8
42.5°	7297.8	6534.6	2898.2	453.6	385.2	313.2	226.8	187.2	162.0	144.0	144.0
45°	8273.5	7157.4	2235.8	414.0	342.0	259.2	187.2	151.2	129.6	115.2	108.0
47.5°	9360.8	7722.7	1508.5	374.4	288.0	212.4	154.8	115.2	93.6	82.8	82.8
50°	10332.9	8223.1	961.3	327.6	252.0	176.4	126.0	93.6	75.6	61.2	57.6
52.5°	11215.0	8604.7	662.5	288.0	216.0	144.0	104.4	75.6	57.6	46.8	46.8
55°	12118.6	8799.1	489.6	248.4	187.2	122.4	86.4	68.4	50.4	39.6	36.0
57.5°	12860.3	8882.0	374.4	216.0	158.4	97.2	75.6	57.6	43.2	32.4	28.8
60°	13493.9	8842.4	291.6	180.0	126.0	82.8	64.8	46.8	36.0	25.2	21.6
62.5°	13864.8	8604.7	230.4	154.8	100.8	72.0	54.0	39.6	25.2	18.0	14.4
65°	13872.0	8100.7	180.0	115.2	75.6	61.2	46.8	32.4	18.0	7.2	3.6
67.5°	12878.3	7009.8	144.0	90.0	61.2	46.8	36.0	25.2	7.2	0.0	0.0
70°	10073.7	5303.3	118.8	72.0	50.4	39.6	25.2	14.4	3.6	0.0	0.0
72.5°	6419.3	3175.5	97.2	57.6	43.2	28.8	18.0	10.8	0.0	0.0	0.0
75°	2685.8	979.3	75.6	50.4	32.4	21.6	14.4	3.6	0.0	0.0	0.0
77.5°	691.3	309.6	61.2	43.2	32.4	18.0	10.8	3.6	0.0	0.0	0.0
80°	205.2	115.2	50.4	36.0	25.2	14.4	7.2	3.6	0.0	0.0	0.0
82.5°	93.6	68.4	43.2	32.4	21.6	14.4	7.2	0.0	0.0	0.0	0.0
85°	36.0	21.6	21.6	18.0	18.0	10.8	3.6	0.0	0.0	0.0	0.0
87.5°	14.4	7.2	7.2	7.2	3.6	3.6	0.0	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)