

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: P482347

Luminaire Tested: **IFLD-S-SA6D-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482347
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

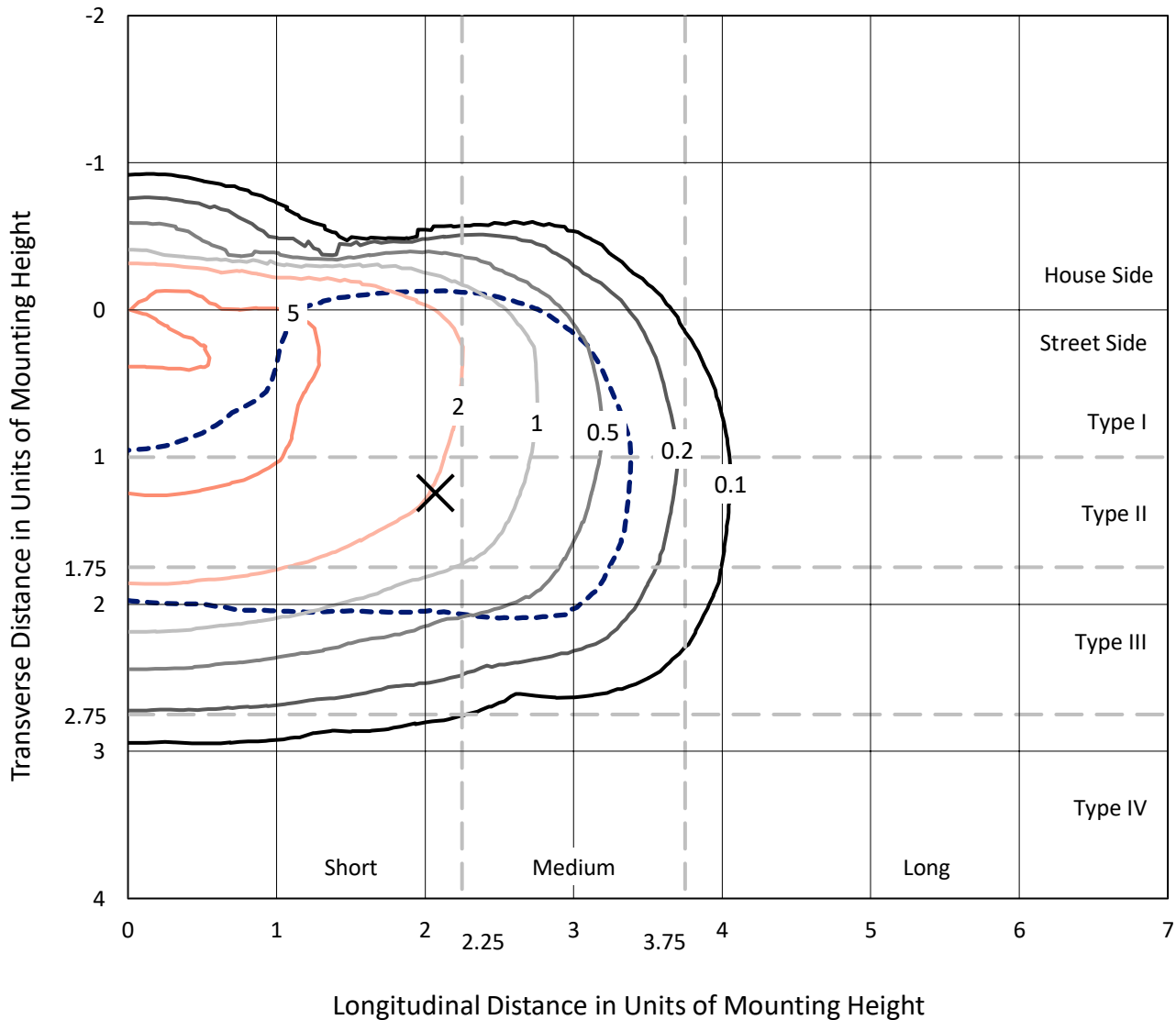
Lumens per Lamp: N/A
Luminaire Lumens: 28372.9 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

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Iso-Footcandle Lines of Horizontal Illumination

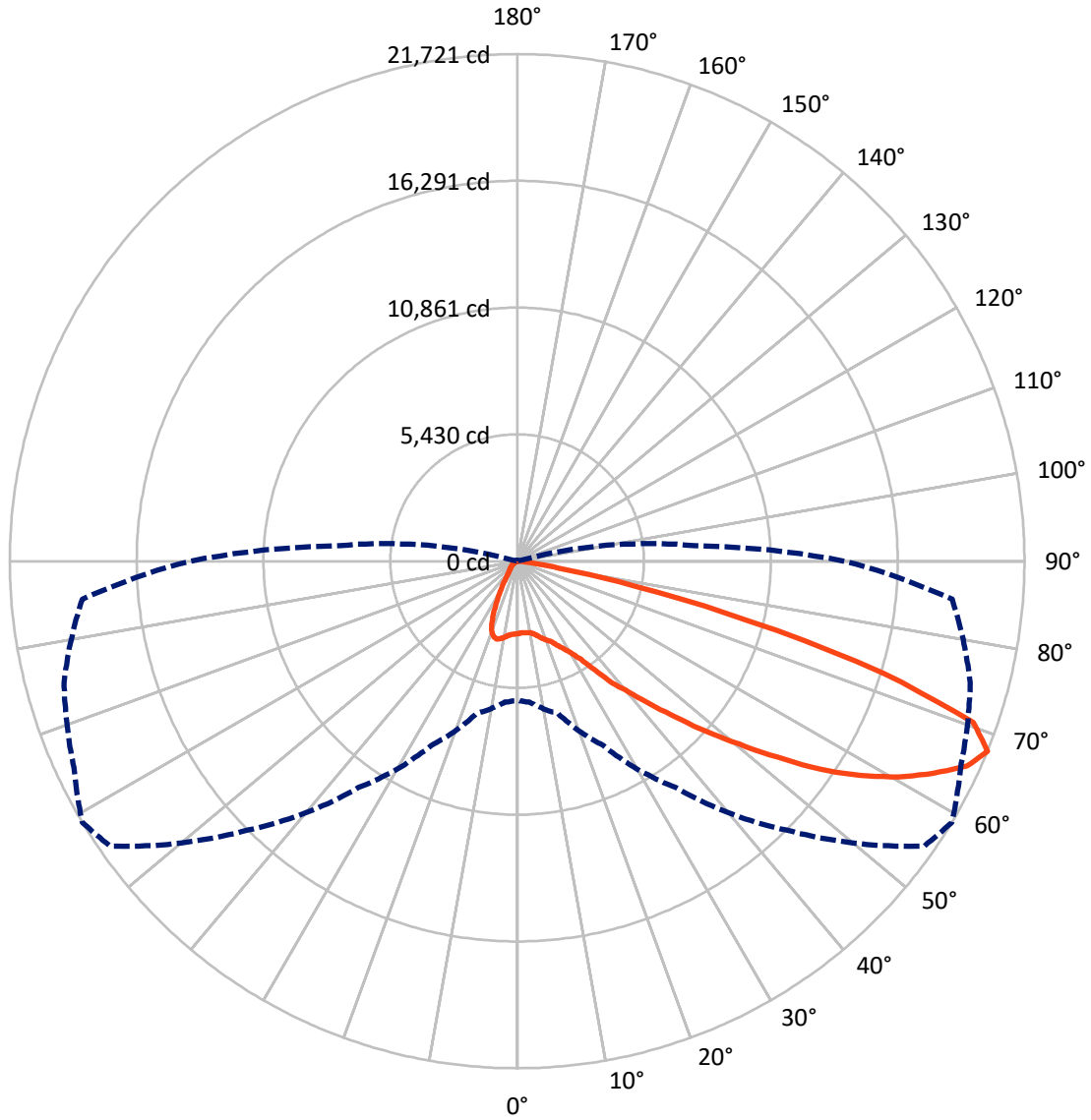
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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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	3332.9	0.0	3332.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	25040.0	0.0	25040.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	28372.9	0.0	28372.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.6	1.0
10°-20°	853.9	3.0
20°-30°	1492.4	5.3
30°-40°	2627.5	9.3
40°-50°	4644.6	16.4
50°-60°	7354.1	25.9
60°-70°	8157.7	28.8
70°-80°	2830.5	10.0
80°-90°	116.6	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°	28372.9	100.0
0°-180°	28372.9	100.0

Coefficient of Utilization

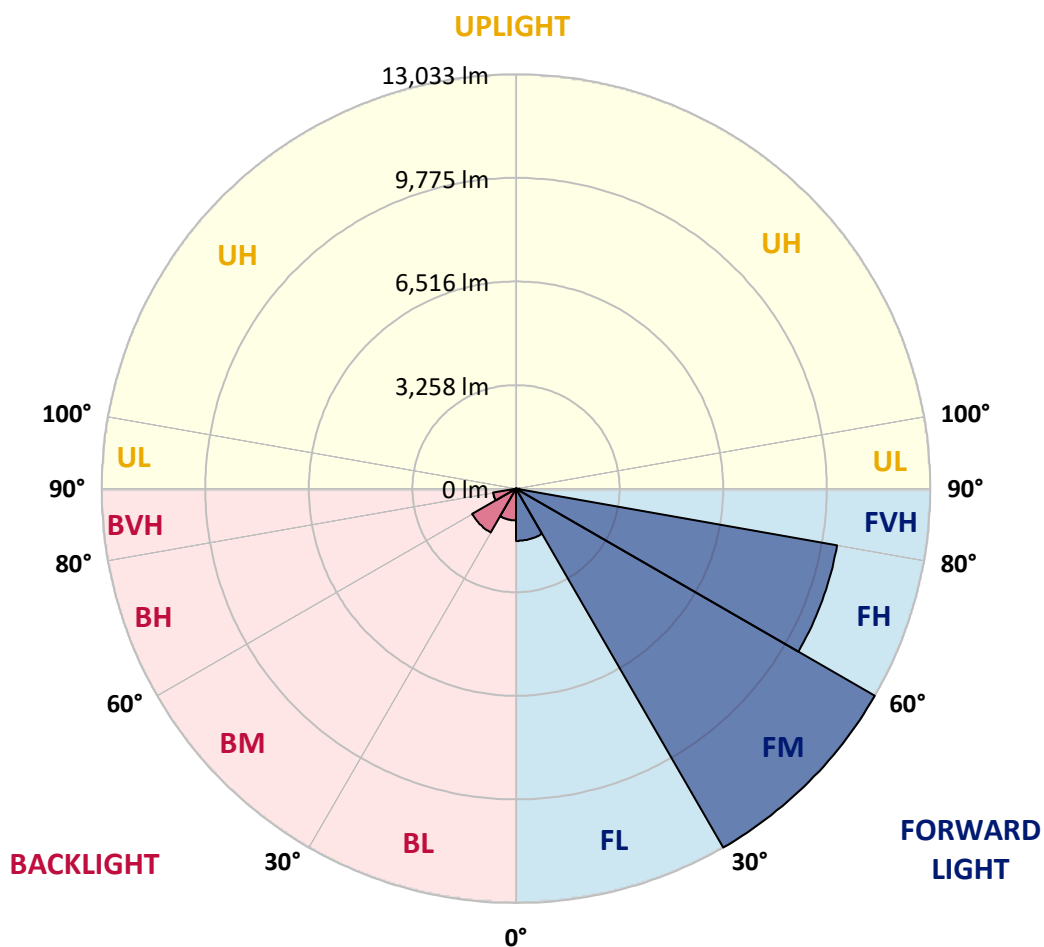


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1643.0	5.8			
FM (30°-60°)	13032.7	45.9			
FH (60°-80°)	10255.3	36.1			G4/12000
FVH (80°-90°)	109.0	0.4			G2/225
BL (0°-30°)	998.9	3.5	B2/1000		
BM (30°-60°)	1593.5	5.6	B2/2500		
BH (60°-80°)	733.0	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.5	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°	59°	65°	75°	85°
0°	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0
2.5°	3021.9	2978.7	3017.9	3021.9	3025.8	3061.0	3100.2	3072.8	3068.9	3100.2	3127.7
5°	2900.4	2880.8	2927.8	2951.3	2990.5	3021.9	3084.6	3088.5	3092.4	3127.7	3174.7
7.5°	2849.4	2802.4	2857.2	2884.7	2912.1	2986.6	3061.0	3100.2	3155.1	3198.2	3245.3
10°	2747.5	2782.8	2798.4	2845.5	2923.9	3010.1	3100.2	3119.8	3241.3	3276.6	3390.3
12.5°	2782.8	2806.3	2837.6	2849.4	2935.6	3065.0	3186.5	3194.3	3319.7	3472.6	3531.4
15°	2872.9	2857.2	2869.0	2884.7	2986.6	3092.4	3288.4	3323.6	3441.2	3613.7	3758.7
17.5°	3065.0	3037.5	3017.9	3014.0	3037.5	3135.5	3366.8	3472.6	3582.3	3817.5	3892.0
20°	3547.1	3523.5	3445.1	3241.3	3170.8	3210.0	3460.8	3609.8	3762.6	4025.2	4146.7
22.5°	4280.0	4303.5	4119.3	3833.2	3539.2	3386.4	3609.8	3739.1	3982.1	4315.3	4425.0
25°	5146.2	5099.1	4875.7	4542.6	4080.1	3719.5	3848.8	3993.9	4291.7	4566.1	4609.2
27.5°	5824.2	5769.3	5596.9	5193.2	4793.4	4209.4	4162.4	4252.5	4605.3	4852.2	4805.2
30°	6494.4	6514.0	6396.5	5918.3	5424.4	4809.1	4511.2	4550.4	4820.9	5138.3	5032.5
32.5°	7348.9	7301.8	7235.2	6815.8	6231.8	5573.4	5063.9	5001.1	5118.7	5538.1	5412.7
35°	8144.5	8117.1	8026.9	7603.6	7094.1	6376.9	5879.1	5738.0	5710.6	6177.0	5957.5
37.5°	8838.2	8791.2	8654.0	8383.6	7889.7	7286.2	6741.4	6615.9	6612.0	6933.4	6510.1
40°	9422.2	9457.5	9441.8	9143.9	8873.5	8391.4	7556.6	7356.7	7341.0	7513.5	7266.6
42.5°	10178.7	10261.0	10217.9	10159.1	9833.8	9645.6	8701.1	8395.3	8258.2	8610.9	8387.5
45°	11323.1	11354.5	11381.9	11236.9	10911.6	10950.8	9884.7	9520.2	9484.9	10010.1	9508.4
47.5°	12393.1	12310.8	12502.9	12510.7	12495.0	12314.7	11162.4	10892.0	10939.0	11338.8	10821.4
50°	12659.6	12871.3	13400.4	13498.4	13753.2	13917.8	12581.3	12310.8	12389.2	12843.9	12252.0
52.5°	12867.4	13188.8	13717.9	14435.1	15121.0	15513.0	14168.6	13949.1	13945.2	14223.5	13408.2
55°	13231.9	13427.8	13886.4	14874.1	16179.3	16822.0	16081.3	15728.5	15411.1	15607.0	14607.6
57.5°	13196.6	13271.1	13984.4	15203.3	17018.0	18186.0	17652.9	17315.9	16908.3	16794.6	15987.2
60°	12577.3	12753.7	13553.3	14979.9	17535.4	19248.1	19118.8	18773.9	18072.3	17805.8	17045.4
62.5°	11350.6	11585.7	12212.8	14196.0	16782.8	19303.0	20130.0	20000.7	19216.8	18738.6	18425.1
65°	9198.8	9308.6	10029.7	12205.0	15081.8	18460.3	21325.4	21164.7	20443.6	19730.2	19134.5
67.5°	5957.5	6063.3	6757.0	8712.8	11844.4	16285.1	21278.4	21721.3	20941.3	20083.0	18691.6
70°	2814.1	2786.7	3433.4	4840.5	7587.9	12436.2	19840.0	20714.0	20051.6	18205.6	15524.7
72.5°	858.3	932.8	1426.7	2143.9	3895.9	7756.5	15552.2	16371.3	16163.6	14544.9	10362.9
75°	380.2	411.5	560.5	877.9	1579.5	3182.5	9606.4	10335.4	10245.3	8579.6	4730.7
77.5°	243.0	266.5	352.7	501.7	717.2	1011.2	4425.0	5134.4	4977.6	3014.0	1238.5
80°	172.5	184.2	250.8	344.9	450.7	415.5	1524.6	1810.8	1736.3	819.2	333.1
82.5°	94.1	101.9	184.2	254.8	301.8	211.6	427.2	533.0	556.6	364.5	160.7
85°	35.3	43.1	113.7	180.3	156.8	98.0	125.4	152.9	199.9	199.9	74.5
87.5°	0.0	3.9	47.0	78.4	39.2	27.4	35.3	43.1	54.9	94.1	27.4
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°	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0	3112.0
2.5°	3147.3	3119.8	3131.6	3151.2	3108.1	3131.6	3084.6	3119.8	3131.6	3084.6	3108.1
5°	3186.5	3213.9	3198.2	3166.9	3139.4	3147.3	3135.5	3108.1	3131.6	3139.4	3123.8
7.5°	3300.1	3268.8	3276.6	3241.3	3186.5	3182.5	3108.1	3088.5	3096.3	3104.2	3076.7
10°	3406.0	3425.6	3386.4	3358.9	3268.8	3210.0	3108.1	2998.3	2986.6	2939.5	2978.7
12.5°	3594.1	3547.1	3531.4	3441.2	3351.1	3155.1	2935.6	2767.1	2626.0	2575.0	2524.1
15°	3750.9	3743.0	3715.6	3578.4	3370.7	3014.0	2598.6	2206.6	1936.2	1767.6	1744.1
17.5°	3966.4	3931.2	3880.2	3664.6	3225.7	2645.6	1936.2	1442.3	1171.9	1066.1	1026.9
20°	4131.0	4103.6	4033.1	3645.0	2963.1	1971.5	1199.3	917.1	850.5	830.9	834.8
22.5°	4370.1	4283.9	4150.6	3547.1	2484.9	1313.0	862.3	819.2	807.4	791.7	795.6
25°	4577.9	4499.5	4221.2	3378.5	1771.6	870.1	799.6	776.0	756.4	736.8	732.9
27.5°	4762.1	4664.1	4295.7	3033.6	1109.2	748.6	740.8	713.3	674.1	642.8	631.0
30°	4942.4	4828.7	4315.3	2386.9	748.6	678.1	658.5	615.3	564.4	521.3	513.4
32.5°	5244.1	5107.0	4287.8	1704.9	646.7	603.6	560.5	509.5	435.1	399.8	391.9
35°	5714.5	5506.7	4252.5	1003.4	580.1	533.0	466.4	399.8	344.9	309.6	301.8
37.5°	6255.4	5894.8	4150.6	670.2	533.0	470.3	384.1	317.5	270.4	243.0	235.2
40°	7058.8	6463.1	3758.7	548.7	474.2	399.8	309.6	250.8	215.6	196.0	188.1
42.5°	7944.6	7113.7	3155.1	493.8	419.4	341.0	246.9	203.8	176.4	156.8	156.8
45°	9006.8	7791.8	2433.9	450.7	372.3	282.2	203.8	164.6	141.1	125.4	117.6
47.5°	10190.4	8407.1	1642.2	407.6	313.6	231.2	168.5	125.4	101.9	90.1	90.1
50°	11248.7	8951.9	1046.5	356.7	274.4	192.1	137.2	101.9	82.3	66.6	62.7
52.5°	12208.9	9367.4	721.2	313.6	235.2	156.8	113.7	82.3	62.7	51.0	51.0
55°	13192.7	9579.0	533.0	270.4	203.8	133.3	94.1	74.5	54.9	43.1	39.2
57.5°	14000.1	9669.1	407.6	235.2	172.5	105.8	82.3	62.7	47.0	35.3	31.4
60°	14689.9	9626.0	317.5	196.0	137.2	90.1	70.5	51.0	39.2	27.4	23.5
62.5°	15093.6	9367.4	250.8	168.5	109.7	78.4	58.8	43.1	27.4	19.6	15.7
65°	15101.4	8818.6	196.0	125.4	82.3	66.6	51.0	35.3	19.6	7.8	3.9
67.5°	14019.7	7631.1	156.8	98.0	66.6	51.0	39.2	27.4	7.8	0.0	0.0
70°	10966.5	5773.3	129.3	78.4	54.9	43.1	27.4	15.7	3.9	0.0	0.0
72.5°	6988.3	3456.9	105.8	62.7	47.0	31.4	19.6	11.8	0.0	0.0	0.0
75°	2923.9	1066.1	82.3	54.9	35.3	23.5	15.7	3.9	0.0	0.0	0.0
77.5°	752.5	337.1	66.6	47.0	35.3	19.6	11.8	3.9	0.0	0.0	0.0
80°	223.4	125.4	54.9	39.2	27.4	15.7	7.8	3.9	0.0	0.0	0.0
82.5°	101.9	74.5	47.0	35.3	23.5	15.7	7.8	0.0	0.0	0.0	0.0
85°	39.2	23.5	23.5	19.6	19.6	11.8	3.9	0.0	0.0	0.0	0.0
87.5°	15.7	7.8	7.8	7.8	3.9	3.9	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)