

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: P484433

Luminaire Tested: **IFLD-S-SA2D-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484433
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

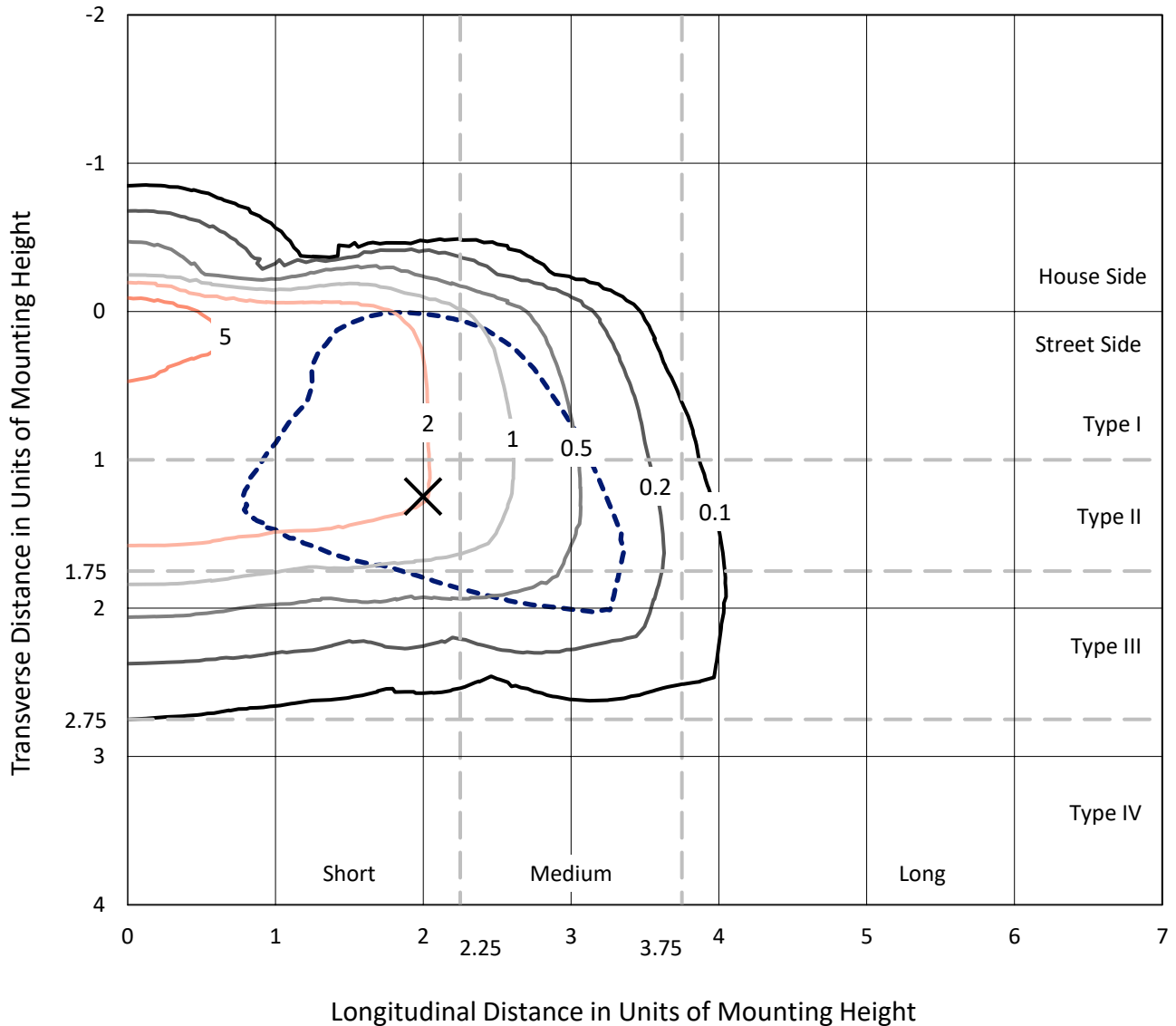
Lumens per Lamp: N/A
Luminaire Lumens: 13378.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): 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

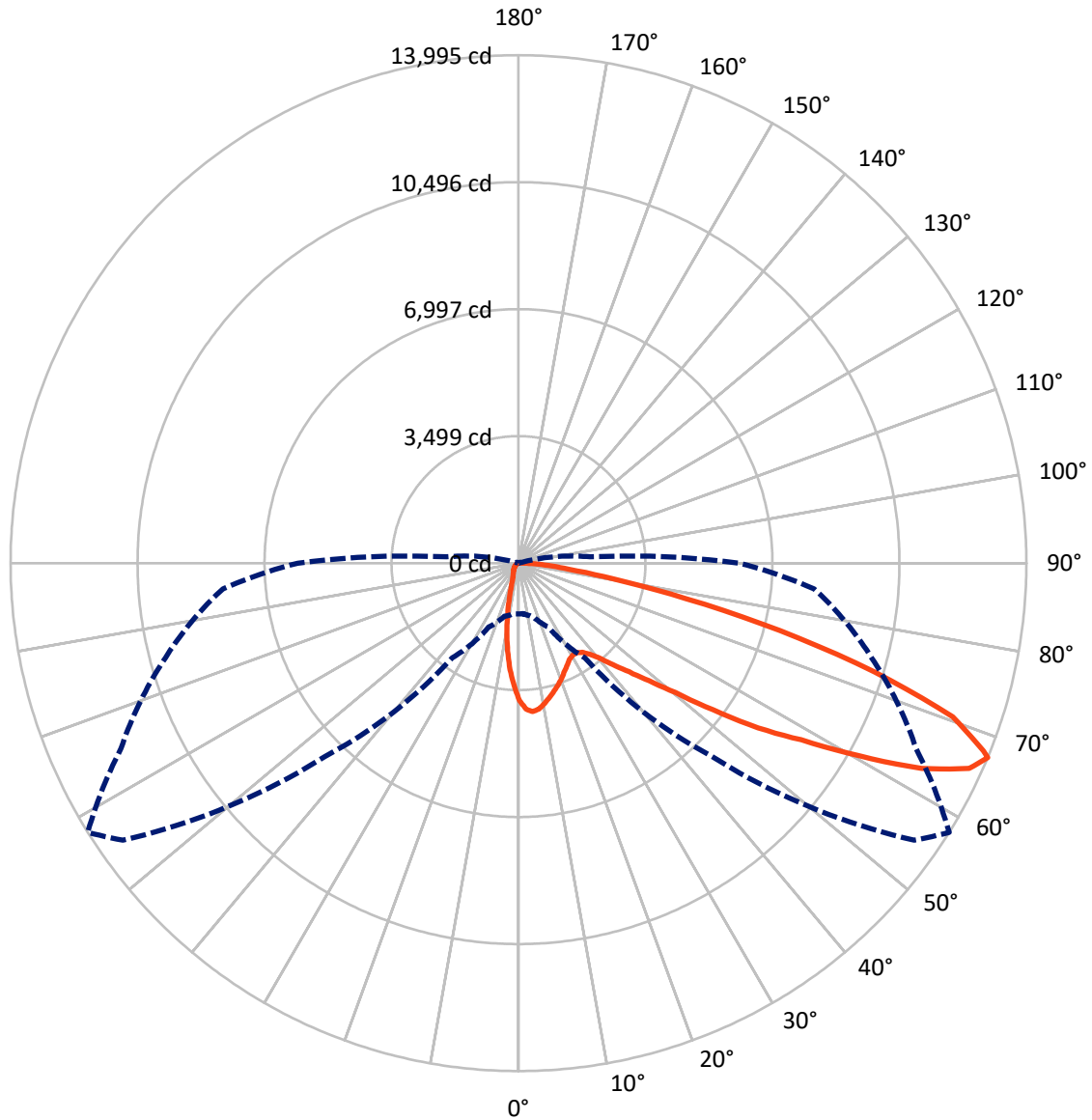
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.8	0.0	1105.8
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	12272.9	0.0	12272.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	13378.8	0.0	13378.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	2.2
10°-20°	623.8	4.7
20°-30°	827.7	6.2
30°-40°	1146.9	8.6
40°-50°	1871.4	14.0
50°-60°	3289.3	24.6
60°-70°	3643.1	27.2
70°-80°	1509.7	11.3
80°-90°	166.2	1.2
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°	13378.8	100.0
0°-180°	13378.8	100.0

Coefficient of Utilization



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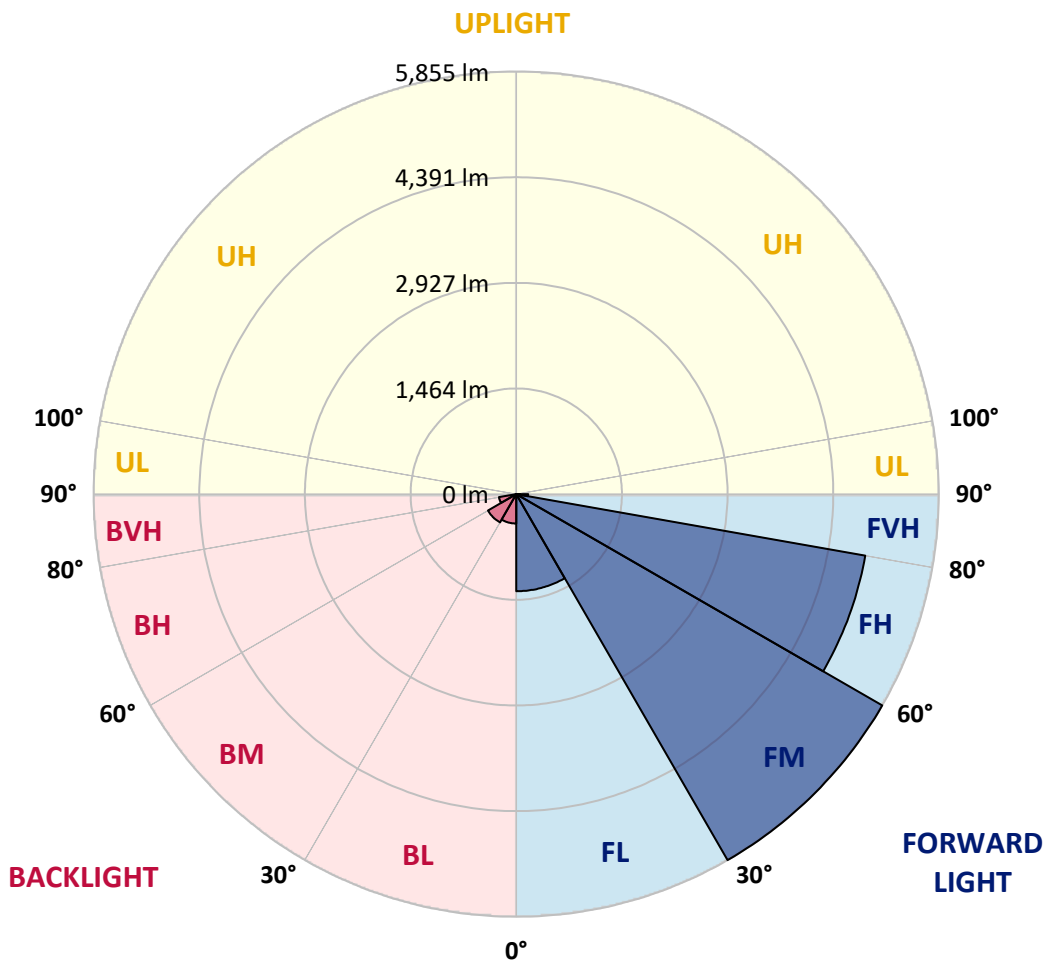
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.9	10.1			
FM (30°-60°)	5854.8	43.8			
FH (60°-80°)	4909.7	36.7			G2/5000
FVH (80°-90°)	163.5	1.2			G2/225
BL (0°-30°)	407.3	3.0	B1/500		
BM (30°-60°)	452.7	3.4	B1/1000		
BH (60°-80°)	243.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4
2.5°	4124.3	4138.5	4151.0	4127.9	4147.4	4119.0	4046.2	4030.2	4017.7	3909.4	3847.2
5°	4122.5	4106.6	4119.0	4129.6	4103.0	4124.3	4106.6	4108.3	4060.4	3962.7	3788.6
7.5°	3847.2	3840.1	3847.2	3898.7	3957.4	4003.5	4030.2	4056.8	4024.8	3879.2	3710.5
10°	3476.0	3511.5	3531.1	3623.4	3714.0	3799.3	3882.8	3932.5	3923.6	3865.0	3625.2
12.5°	3216.7	3206.0	3277.1	3337.5	3428.0	3600.3	3746.0	3792.2	3845.5	3763.7	3513.3
15°	2976.9	2948.5	2991.1	3095.9	3250.4	3387.2	3591.5	3660.7	3728.2	3749.5	3452.9
17.5°	2747.8	2762.0	2806.4	2900.5	3046.2	3238.0	3429.8	3529.3	3690.9	3662.5	3362.3
20°	2637.6	2667.8	2683.8	2731.8	2833.0	3024.9	3310.8	3390.7	3563.0	3660.7	3273.5
22.5°	2643.0	2643.0	2605.7	2634.1	2726.5	2875.7	3149.2	3238.0	3511.5	3568.4	3193.6
25°	2699.8	2664.3	2666.1	2632.3	2671.4	2753.1	3003.5	3111.9	3406.7	3577.2	3151.0
27.5°	2742.4	2735.3	2724.7	2715.8	2666.1	2678.5	2907.6	2996.4	3365.9	3566.6	3085.2
30°	2897.0	2865.0	2854.3	2834.8	2769.1	2708.7	2831.2	2943.1	3333.9	3591.5	3047.9
32.5°	3026.6	3032.0	3040.8	2984.0	2927.2	2778.0	2852.6	2941.4	3310.8	3648.3	3085.2
35°	3190.0	3213.1	3216.7	3198.9	3138.5	2991.1	2941.4	3017.7	3349.9	3749.5	3088.8
37.5°	3438.7	3413.8	3481.3	3488.4	3445.8	3250.4	3147.4	3177.6	3465.3	3911.2	3223.8
40°	3600.3	3630.5	3756.6	3834.8	3762.0	3584.4	3445.8	3440.5	3632.3	4165.2	3390.7
42.5°	3779.7	3847.2	3985.8	4154.5	4145.6	3980.4	3840.1	3817.0	3928.9	4532.8	3655.4
45°	4024.8	4085.2	4278.8	4532.8	4671.4	4531.1	4319.7	4273.5	4289.5	5033.7	4106.6
47.5°	4431.6	4415.6	4694.5	4944.9	5172.3	5063.9	4973.3	4838.3	4825.9	5623.4	4730.0
50°	4891.6	4888.1	5136.7	5420.9	5683.8	5895.2	5744.2	5596.8	5600.3	6424.5	5463.6
52.5°	5328.6	5397.8	5666.0	5948.5	6399.6	6627.0	6772.6	6714.0	6431.6	7140.3	6248.6
55°	5559.5	5619.9	5886.3	6373.0	7085.2	7669.6	8063.9	8014.2	7468.9	7946.7	7023.1
57.5°	5341.0	5381.9	5742.4	6380.1	7564.8	8868.5	9246.8	9184.7	8541.7	8563.0	7959.1
60°	4426.3	4490.2	5026.6	5774.4	7378.3	9792.1	10875.6	10781.5	9518.6	9342.8	8561.2
62.5°	3065.7	3108.3	3548.8	4479.6	6493.8	10113.6	12413.8	12465.3	10548.8	9950.2	8740.6
65°	1985.8	1982.2	2234.4	2865.0	4602.1	9140.3	13323.2	13642.9	11543.5	10042.6	8685.6
67°	1403.2	1397.9	1516.9	1943.2	3186.5	7531.0	13307.2	13994.6	12083.4	10069.2	8175.8
67.5°	1294.8	1289.5	1403.2	1786.8	2875.7	7003.5	13108.3	13813.4	12273.5	10031.9	7952.0
70°	1005.3	991.1	1033.7	1230.9	1674.9	4529.3	11218.4	12689.1	11879.2	9101.2	6349.9
72.5°	726.5	742.4	809.9	1010.7	1314.4	2436.9	8550.6	10261.0	9921.8	6859.6	4035.5
75°	506.2	520.4	628.8	824.2	1206.0	1477.8	5781.5	7442.2	6911.2	3786.8	1719.4
77.5°	264.7	282.4	401.4	659.0	1095.9	1143.9	3454.7	4719.3	3662.5	1348.1	474.2
80°	122.6	131.4	200.7	467.1	916.5	1005.3	2014.2	2625.2	1465.4	302.0	163.4
82.5°	53.3	58.6	92.4	268.2	650.1	879.2	1246.9	1376.5	531.1	97.7	101.2
85°	10.7	12.4	35.5	142.1	314.4	532.9	875.7	817.0	266.4	48.0	79.9
87.5°	0.0	0.0	8.9	40.9	85.3	158.1	371.2	371.2	81.7	24.9	30.2
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°	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4	3790.4
2.5°	3792.2	3728.2	3587.9	3458.2	3365.9	3261.1	3122.5	3060.4	3037.3	3005.3	2957.4
5°	3692.7	3614.5	3374.8	3133.2	2868.5	2667.8	2454.7	2330.4	2236.2	2177.6	2158.1
7.5°	3552.4	3392.5	3069.3	2682.0	2339.2	2040.8	1717.6	1499.1	1358.8	1301.9	1248.7
10°	3440.5	3232.7	2740.7	2259.3	1802.8	1365.9	1001.8	809.9	664.3	609.2	602.1
12.5°	3294.8	3046.2	2433.4	1827.7	1254.0	813.5	554.2	481.3	440.5	433.4	428.1
15°	3174.1	2877.4	2142.1	1415.6	811.7	508.0	431.6	413.9	403.2	399.6	401.4
17.5°	3092.3	2696.3	1843.7	1030.2	534.6	415.6	397.9	387.2	381.9	380.1	374.8
20°	2930.7	2543.5	1548.8	721.1	417.4	383.7	369.4	360.6	355.2	353.5	351.7
22.5°	2838.4	2349.9	1254.0	502.7	371.2	348.1	337.5	330.4	321.5	316.2	314.4
25°	2746.0	2207.8	991.1	390.8	337.5	321.5	305.5	296.6	282.4	275.3	273.5
27.5°	2637.6	2067.5	763.8	339.3	303.7	287.7	271.8	257.5	239.8	232.7	229.1
30°	2575.5	1930.7	575.5	303.7	278.9	257.5	238.0	220.2	200.7	188.3	184.7
32.5°	2543.5	1806.4	431.6	277.1	252.2	229.1	204.3	182.9	165.2	154.5	152.8
35°	2504.4	1685.6	339.3	252.2	227.4	202.5	177.6	156.3	138.5	129.7	126.1
37.5°	2545.3	1614.6	282.4	232.7	207.8	179.4	152.8	131.4	117.2	108.3	106.6
40°	2657.2	1555.9	245.1	214.9	188.3	158.1	133.2	111.9	99.5	92.4	88.8
42.5°	2829.5	1555.9	222.0	197.2	170.5	138.5	113.7	97.7	85.3	78.2	76.4
45°	3142.1	1603.9	202.5	179.4	149.2	119.0	97.7	81.7	69.3	62.2	60.4
47.5°	3580.8	1714.0	186.5	163.4	133.2	104.8	85.3	69.3	56.8	49.7	48.0
50°	4170.5	1964.5	170.5	143.9	119.0	90.6	71.0	55.1	44.4	37.3	35.5
52.5°	4905.8	2319.7	154.5	133.2	101.2	76.4	56.8	44.4	33.7	28.4	26.6
55°	5683.8	2754.9	135.0	119.0	87.0	63.9	46.2	33.7	24.9	21.3	19.5
57.5°	6467.1	3090.6	119.0	103.0	71.0	51.5	37.3	26.6	17.8	14.2	12.4
60°	6882.7	3122.5	103.0	85.3	56.8	40.9	28.4	19.5	12.4	8.9	7.1
62.5°	6946.7	2838.4	88.8	69.3	46.2	32.0	19.5	14.2	7.1	3.6	3.6
65°	6618.1	2365.9	76.4	55.1	35.5	23.1	14.2	8.9	3.6	1.8	0.0
67°	6085.2	1982.2	65.7	46.2	28.4	17.8	10.7	5.3	1.8	0.0	0.0
67.5°	5879.2	1875.7	62.2	42.6	26.6	16.0	8.9	5.3	1.8	0.0	0.0
70°	4563.0	1339.2	46.2	30.2	19.5	12.4	7.1	3.6	0.0	0.0	0.0
72.5°	2795.7	783.3	35.5	21.3	14.2	8.9	5.3	1.8	0.0	0.0	0.0
75°	1172.3	270.0	30.2	16.0	10.7	5.3	3.6	1.8	0.0	0.0	0.0
77.5°	305.5	101.2	21.3	10.7	7.1	5.3	3.6	1.8	0.0	0.0	0.0
80°	124.3	46.2	14.2	7.1	7.1	5.3	3.6	1.8	0.0	0.0	0.0
82.5°	81.7	21.3	8.9	7.1	5.3	3.6	1.8	0.0	0.0	0.0	0.0
85°	62.2	12.4	5.3	5.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	26.6	7.1	5.3	3.6	3.6	0.0	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)