

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: P482539

Luminaire Tested: **IFLD-S-SA6A-760-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482539
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-760-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

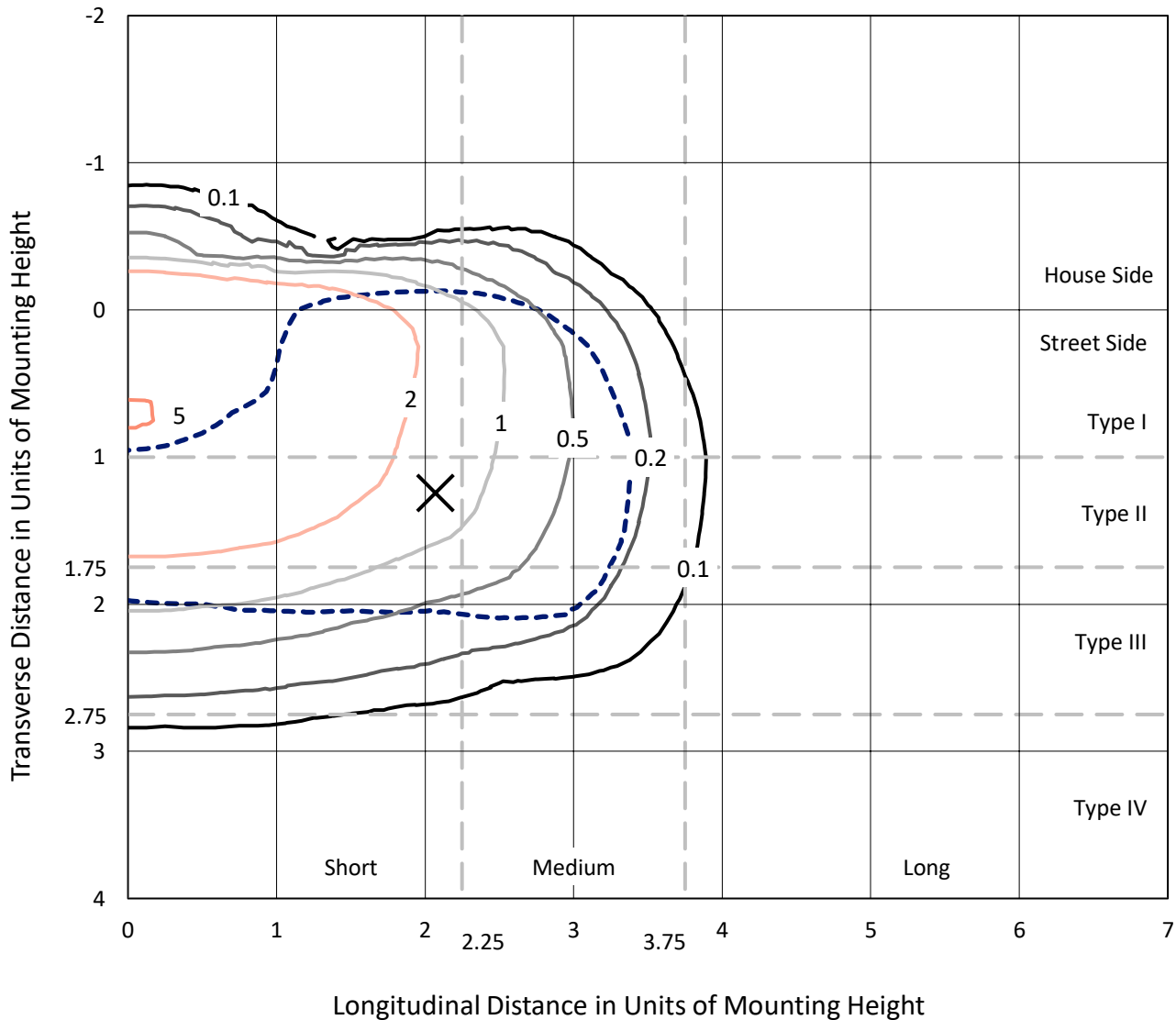
Lumens per Lamp: N/A
Luminaire Lumens: 20485.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

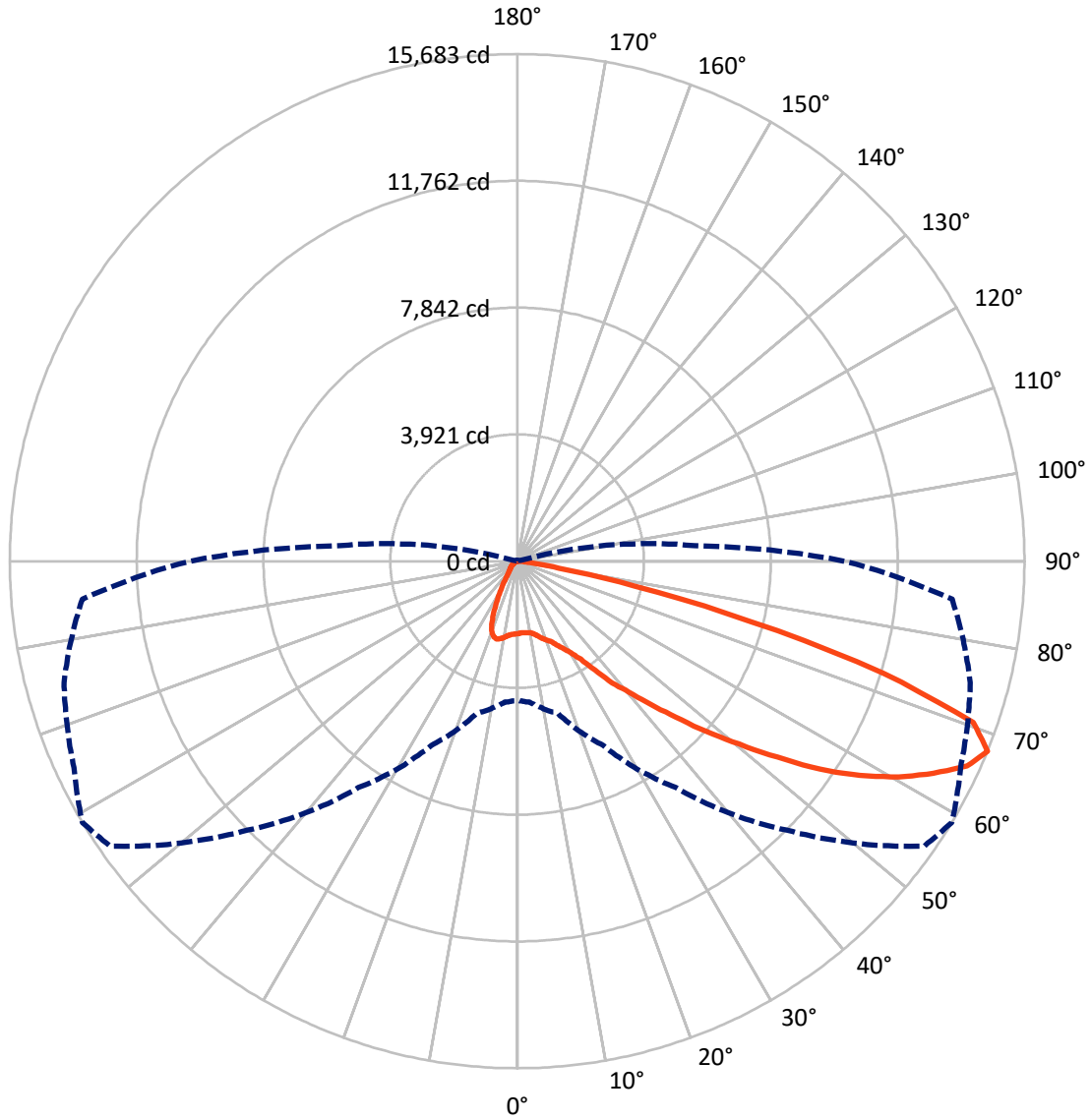
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2406.4	0.0	2406.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18079.4	0.0	18079.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	20485.8	0.0	20485.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.0
10°-20°	616.5	3.0
20°-30°	1077.5	5.3
30°-40°	1897.1	9.3
40°-50°	3353.5	16.4
50°-60°	5309.8	25.9
60°-70°	5890.0	28.8
70°-80°	2043.7	10.0
80°-90°	84.2	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°	20485.8	100.0
0°-180°	20485.8	100.0

Coefficient of Utilization

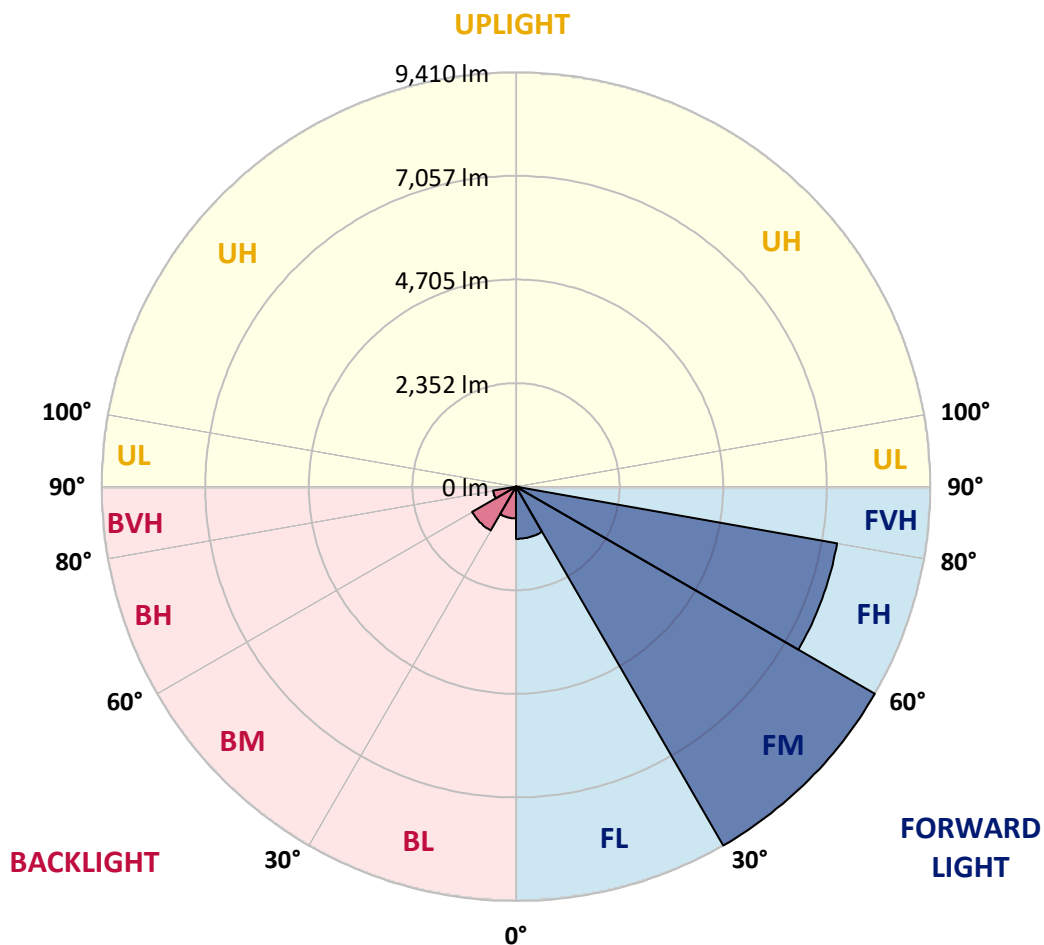


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.3	5.8			
FM (30°-60°)	9409.9	45.9			
FH (60°-80°)	7404.5	36.1			G3/7500
FVH (80°-90°)	78.7	0.4			G1/100
BL (0°-30°)	721.2	3.5	B2/1000		
BM (30°-60°)	1150.5	5.6	B2/2500		
BH (60°-80°)	529.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.4	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°	59°	65°	75°	85°
0°	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9
2.5°	2181.8	2150.7	2179.0	2181.8	2184.7	2210.1	2238.4	2218.6	2215.8	2238.4	2258.2
5°	2094.1	2080.0	2113.9	2130.9	2159.2	2181.8	2227.1	2229.9	2232.8	2258.2	2292.2
7.5°	2057.3	2023.4	2063.0	2082.8	2102.6	2156.4	2210.1	2238.4	2278.1	2309.2	2343.1
10°	1983.7	2009.2	2020.5	2054.5	2111.1	2173.3	2238.4	2252.6	2340.3	2365.8	2447.8
12.5°	2009.2	2026.2	2048.8	2057.3	2119.6	2213.0	2300.7	2306.4	2396.9	2507.3	2549.7
15°	2074.3	2063.0	2071.5	2082.8	2156.4	2232.8	2374.3	2399.7	2484.6	2609.2	2713.9
17.5°	2213.0	2193.2	2179.0	2176.2	2193.2	2263.9	2430.9	2507.3	2586.5	2756.3	2810.1
20°	2561.0	2544.1	2487.5	2340.3	2289.4	2317.7	2498.8	2606.3	2716.7	2906.3	2994.0
22.5°	3090.2	3107.2	2974.2	2767.6	2555.4	2445.0	2606.3	2699.7	2875.2	3115.7	3194.9
25°	3715.6	3681.7	3520.4	3279.8	2945.9	2685.6	2778.9	2883.6	3098.7	3296.8	3327.9
27.5°	4205.2	4165.6	4041.1	3749.6	3460.9	3039.3	3005.3	3070.4	3325.1	3503.4	3469.4
30°	4689.1	4703.3	4618.4	4273.1	3916.6	3472.3	3257.2	3285.5	3480.8	3710.0	3633.6
32.5°	5306.0	5272.1	5224.0	4921.2	4499.5	4024.1	3656.2	3610.9	3695.8	3998.6	3908.1
35°	5880.5	5860.7	5795.6	5490.0	5122.1	4604.2	4244.8	4142.9	4123.1	4459.9	4301.4
37.5°	6381.4	6347.4	6248.4	6053.1	5696.6	5260.7	4867.4	4776.8	4774.0	5006.1	4700.4
40°	6803.0	6828.5	6817.2	6602.1	6406.9	6058.8	5456.0	5311.7	5300.4	5424.9	5246.6
42.5°	7349.2	7408.6	7377.5	7335.1	7100.2	6964.3	6282.3	6061.6	5962.6	6217.2	6055.9
45°	8175.5	8198.2	8218.0	8113.3	7878.4	7906.7	7137.0	6873.8	6848.3	7227.5	6865.3
47.5°	8948.1	8888.7	9027.3	9033.0	9021.7	8891.5	8059.5	7864.2	7898.2	8186.8	7813.3
50°	9140.5	9293.3	9675.4	9746.1	9930.1	10048.9	9083.9	8888.7	8945.3	9273.5	8846.2
52.5°	9290.5	9522.6	9904.6	10422.5	10917.7	11200.7	10230.0	10071.5	10068.7	10269.6	9681.0
55°	9553.7	9695.2	10026.3	10739.4	11681.8	12145.9	11611.0	11356.3	11127.1	11268.6	10547.0
57.5°	9528.2	9582.0	10097.0	10977.1	12287.3	13130.6	12745.8	12502.4	12208.1	12126.0	11543.1
60°	9081.1	9208.4	9785.7	10815.8	12660.9	13897.5	13804.2	13555.1	13048.6	12856.2	12307.2
62.5°	8195.3	8365.1	8817.9	10249.8	12117.6	13937.2	14534.3	14440.9	13874.9	13529.7	13303.3
65°	6641.7	6721.0	7241.7	8812.3	10889.4	13328.7	15397.4	15281.4	14760.7	14245.6	13815.5
67.5°	4301.4	4377.8	4878.7	6290.8	8551.9	11758.2	15363.4	15683.2	15120.1	14500.3	13495.7
70°	2031.9	2012.0	2479.0	3494.9	5478.7	8979.2	14324.9	14955.9	14477.7	13144.8	11209.2
72.5°	619.7	673.5	1030.1	1547.9	2812.9	5600.3	11229.0	11820.4	11670.4	10501.7	7482.2
75°	274.5	297.1	404.7	633.9	1140.4	2297.9	6936.0	7462.4	7397.3	6194.6	3415.7
77.5°	175.5	192.4	254.7	362.2	517.9	730.1	3194.9	3707.1	3593.9	2176.2	894.2
80°	124.5	133.0	181.1	249.0	325.4	300.0	1100.8	1307.4	1253.6	591.4	240.5
82.5°	67.9	73.6	133.0	183.9	217.9	152.8	308.5	384.9	401.8	263.2	116.0
85°	25.5	31.1	82.1	130.2	113.2	70.7	90.6	110.4	144.3	144.3	53.8
87.5°	0.0	2.8	34.0	56.6	28.3	19.8	25.5	31.1	39.6	67.9	19.8
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°	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9	2246.9
2.5°	2272.4	2252.6	2261.1	2275.2	2244.1	2261.1	2227.1	2252.6	2261.1	2227.1	2244.1
5°	2300.7	2320.5	2309.2	2286.5	2266.7	2272.4	2263.9	2244.1	2261.1	2266.7	2255.4
7.5°	2382.8	2360.1	2365.8	2340.3	2300.7	2297.9	2244.1	2229.9	2235.6	2241.3	2221.5
10°	2459.2	2473.3	2445.0	2425.2	2360.1	2317.7	2244.1	2164.9	2156.4	2122.4	2150.7
12.5°	2595.0	2561.0	2549.7	2484.6	2419.5	2278.1	2119.6	1997.9	1896.0	1859.2	1822.4
15°	2708.2	2702.5	2682.7	2583.7	2433.7	2176.2	1876.2	1593.2	1398.0	1276.3	1259.3
17.5°	2863.8	2838.4	2801.6	2645.9	2329.0	1910.2	1398.0	1041.4	846.1	769.7	741.4
20°	2982.7	2962.9	2911.9	2631.8	2139.4	1423.4	865.9	662.2	614.1	599.9	602.8
22.5°	3155.3	3093.1	2996.8	2561.0	1794.1	948.0	622.6	591.4	583.0	571.6	574.5
25°	3305.3	3248.7	3047.8	2439.4	1279.1	628.2	577.3	560.3	546.2	532.0	529.2
27.5°	3438.3	3367.6	3101.5	2190.3	800.9	540.5	534.8	515.0	486.7	464.1	455.6
30°	3568.5	3486.4	3115.7	1723.4	540.5	489.6	475.4	444.3	407.5	376.4	370.7
32.5°	3786.4	3687.3	3095.9	1231.0	466.9	435.8	404.7	367.9	314.1	288.6	283.0
35°	4126.0	3976.0	3070.4	724.4	418.8	384.9	336.8	288.6	249.0	223.6	217.9
37.5°	4516.5	4256.1	2996.8	483.9	384.9	339.6	277.3	229.2	195.3	175.5	169.8
40°	5096.6	4666.5	2713.9	396.2	342.4	288.6	223.6	181.1	155.6	141.5	135.8
42.5°	5736.2	5136.2	2278.1	356.6	302.8	246.2	178.3	147.2	127.3	113.2	113.2
45°	6503.1	5625.8	1757.4	325.4	268.8	203.8	147.2	118.9	101.9	90.6	84.9
47.5°	7357.7	6070.1	1185.7	294.3	226.4	167.0	121.7	90.6	73.6	65.1	65.1
50°	8121.8	6463.4	755.6	257.5	198.1	138.7	99.0	73.6	59.4	48.1	45.3
52.5°	8815.1	6763.4	520.7	226.4	169.8	113.2	82.1	59.4	45.3	36.8	36.8
55°	9525.4	6916.2	384.9	195.3	147.2	96.2	67.9	53.8	39.6	31.1	28.3
57.5°	10108.3	6981.3	294.3	169.8	124.5	76.4	59.4	45.3	34.0	25.5	22.6
60°	10606.4	6950.2	229.2	141.5	99.0	65.1	50.9	36.8	28.3	19.8	17.0
62.5°	10897.9	6763.4	181.1	121.7	79.2	56.6	42.4	31.1	19.8	14.1	11.3
65°	10903.5	6367.2	141.5	90.6	59.4	48.1	36.8	25.5	14.1	5.7	2.8
67.5°	10122.5	5509.8	113.2	70.7	48.1	36.8	28.3	19.8	5.7	0.0	0.0
70°	7918.0	4168.4	93.4	56.6	39.6	31.1	19.8	11.3	2.8	0.0	0.0
72.5°	5045.7	2496.0	76.4	45.3	34.0	22.6	14.1	8.5	0.0	0.0	0.0
75°	2111.1	769.7	59.4	39.6	25.5	17.0	11.3	2.8	0.0	0.0	0.0
77.5°	543.3	243.4	48.1	34.0	25.5	14.1	8.5	2.8	0.0	0.0	0.0
80°	161.3	90.6	39.6	28.3	19.8	11.3	5.7	2.8	0.0	0.0	0.0
82.5°	73.6	53.8	34.0	25.5	17.0	11.3	5.7	0.0	0.0	0.0	0.0
85°	28.3	17.0	17.0	14.1	14.1	8.5	2.8	0.0	0.0	0.0	0.0
87.5°	11.3	5.7	5.7	5.7	2.8	2.8	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)