

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: P482632

Luminaire Tested: **IFLD-L-SA8A-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482632
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

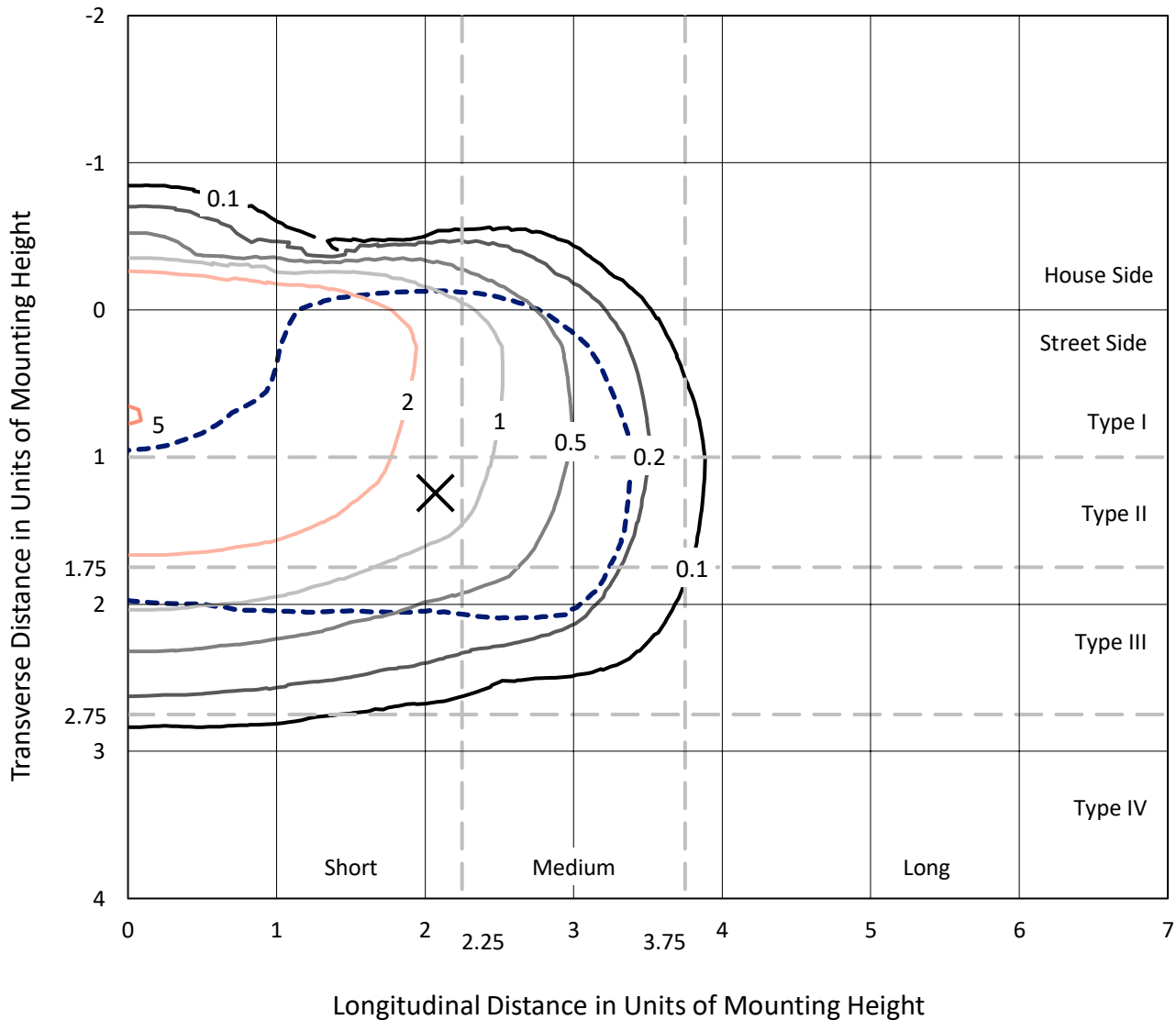
Lumens per Lamp: N/A
Luminaire Lumens: 20197.9 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8
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

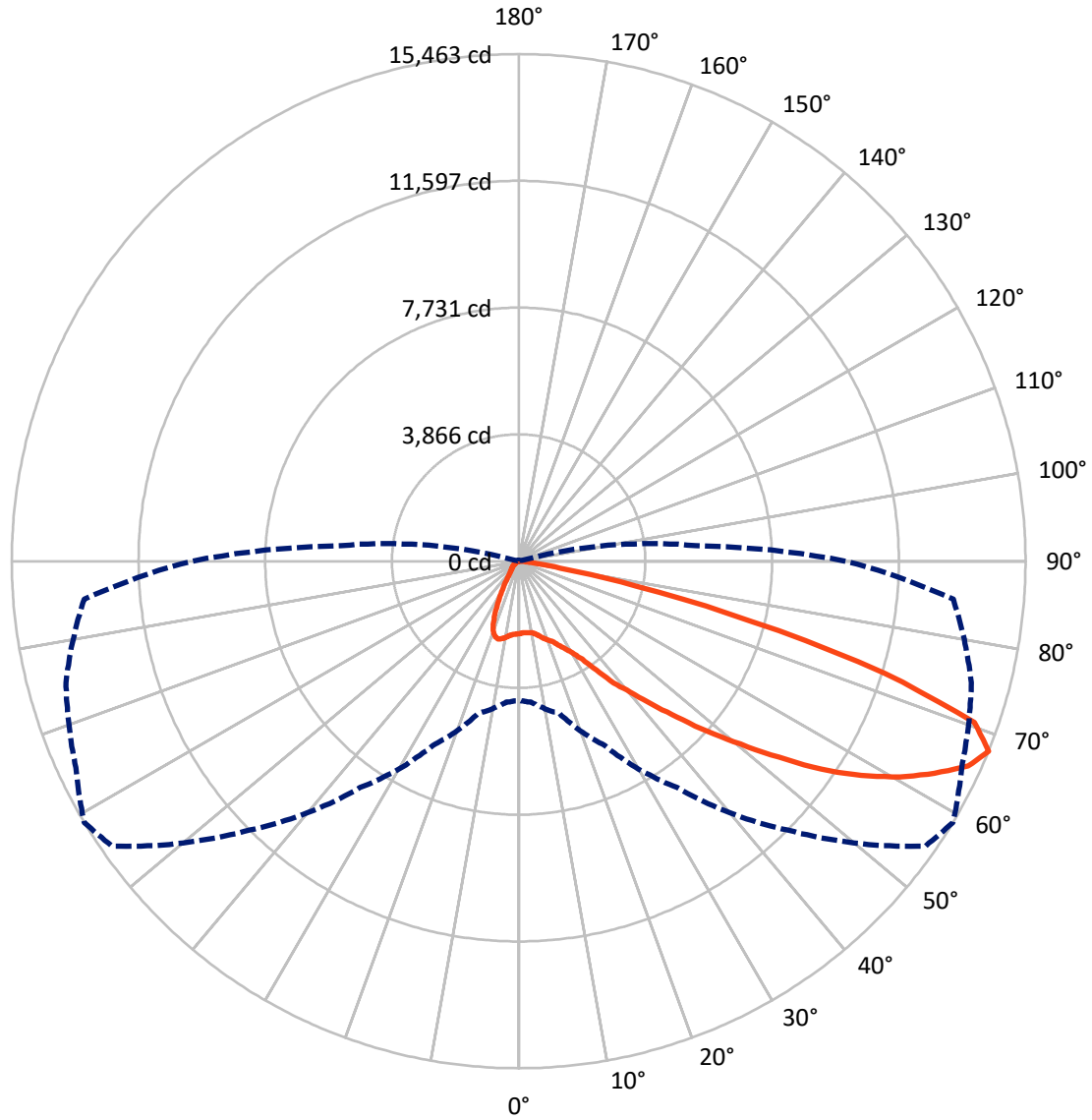
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2372.6	0.0	2372.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	17825.3	0.0	17825.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	20197.9	0.0	20197.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	1.0
10°-20°	607.9	3.0
20°-30°	1062.4	5.3
30°-40°	1870.5	9.3
40°-50°	3306.4	16.4
50°-60°	5235.2	25.9
60°-70°	5807.3	28.8
70°-80°	2015.0	10.0
80°-90°	83.0	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°	20197.9	100.0
0°-180°	20197.9	100.0

Coefficient of Utilization

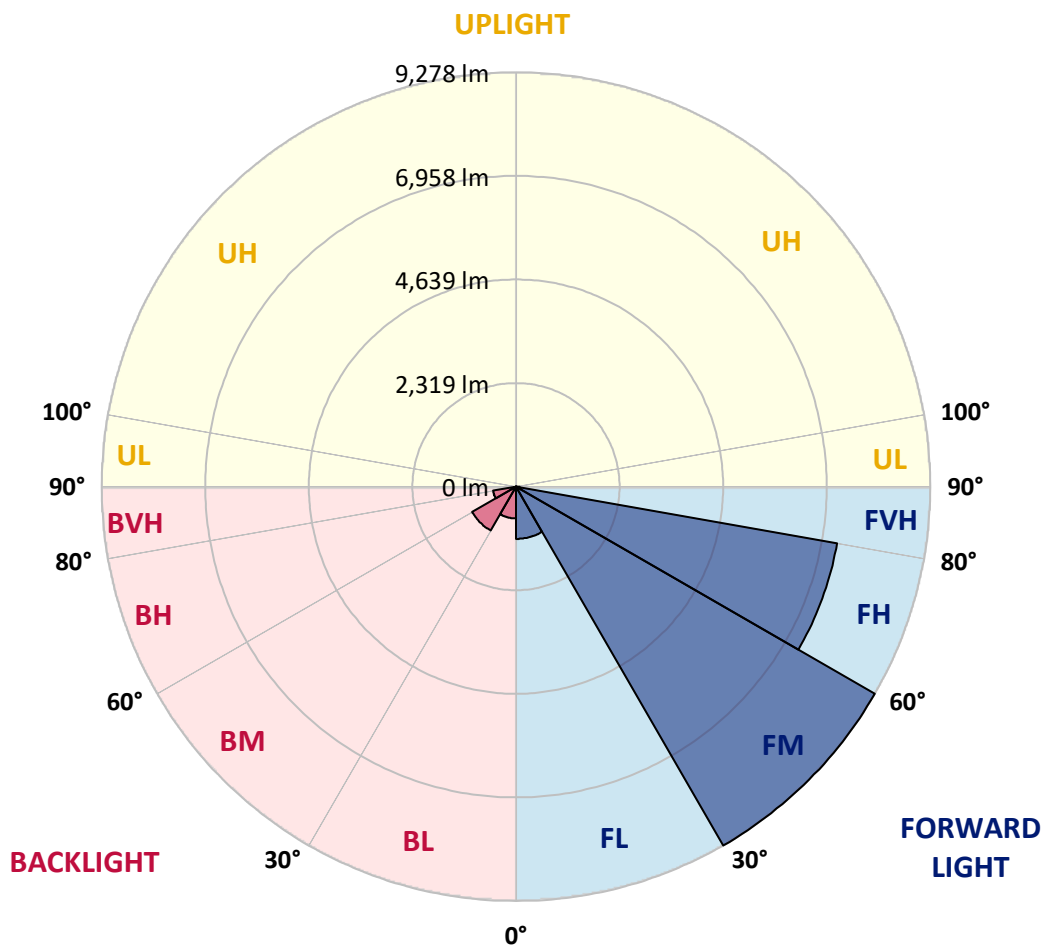


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.6	5.8			
FM (30°-60°)	9277.6	45.9			
FH (60°-80°)	7300.5	36.1			G3/7500
FVH (80°-90°)	77.6	0.4			G1/100
BL (0°-30°)	711.1	3.5	B2/1000		
BM (30°-60°)	1134.4	5.6	B2/2500		
BH (60°-80°)	521.8	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°	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3
2.5°	2151.2	2120.5	2148.4	2151.2	2154.0	2179.1	2207.0	2187.4	2184.7	2207.0	2226.5
5°	2064.7	2050.7	2084.2	2101.0	2128.9	2151.2	2195.8	2198.6	2201.4	2226.5	2260.0
7.5°	2028.4	1994.9	2034.0	2053.5	2073.1	2126.1	2179.1	2207.0	2246.0	2276.7	2310.2
10°	1955.9	1981.0	1992.1	2025.6	2081.4	2142.8	2207.0	2220.9	2307.4	2332.5	2413.4
12.5°	1981.0	1997.7	2020.0	2028.4	2089.8	2181.9	2268.4	2273.9	2363.2	2472.0	2513.9
15°	2045.2	2034.0	2042.4	2053.5	2126.1	2201.4	2340.9	2366.0	2449.7	2572.5	2675.7
17.5°	2181.9	2162.3	2148.4	2145.6	2162.3	2232.1	2396.7	2472.0	2550.2	2717.6	2770.6
20°	2525.0	2508.3	2452.5	2307.4	2257.2	2285.1	2463.7	2569.7	2678.5	2865.4	2951.9
22.5°	3046.8	3063.5	2932.4	2728.7	2519.5	2410.7	2569.7	2661.8	2834.8	3071.9	3150.0
25°	3663.4	3629.9	3470.9	3233.7	2904.5	2647.8	2739.9	2843.1	3055.2	3250.5	3281.2
27.5°	4146.1	4107.0	3984.3	3696.9	3412.3	2996.6	2963.1	3027.3	3278.4	3454.2	3420.7
30°	4623.2	4637.2	4553.5	4213.1	3861.5	3423.5	3211.4	3239.3	3431.8	3657.8	3582.5
32.5°	5231.5	5198.0	5150.5	4852.0	4436.3	3967.5	3604.8	3560.2	3643.9	3942.4	3853.1
35°	5797.8	5778.3	5714.1	5412.8	5050.1	4539.5	4185.2	4084.7	4065.2	4397.2	4241.0
37.5°	6291.7	6258.2	6160.6	5968.0	5616.5	5186.8	4799.0	4709.7	4706.9	4935.7	4634.4
40°	6707.4	6732.5	6721.4	6509.3	6316.8	5973.6	5379.3	5237.0	5225.9	5348.6	5172.9
42.5°	7245.9	7304.5	7273.8	7232.0	7000.4	6866.5	6194.0	5976.4	5878.8	6129.9	5970.8
45°	8060.6	8082.9	8102.5	7999.2	7767.7	7795.6	7036.7	6777.2	6752.1	7125.9	6768.8
47.5°	8822.3	8763.7	8900.5	8906.0	8894.9	8766.5	7946.2	7753.7	7787.2	8071.8	7703.5
50°	9012.1	9162.7	9539.4	9609.1	9790.5	9907.7	8956.3	8763.7	8819.5	9143.2	8721.9
52.5°	9159.9	9388.7	9765.4	10276.0	10764.2	11043.3	10086.2	9930.0	9927.2	10125.3	9545.0
55°	9419.4	9558.9	9885.4	10588.5	11517.6	11975.2	11447.8	11196.7	10970.7	11110.2	10398.7
57.5°	9394.3	9447.3	9955.1	10822.8	12114.7	12946.1	12566.7	12326.7	12036.5	11955.6	11380.9
60°	8953.5	9079.0	9648.2	10663.8	12483.0	13702.2	13610.2	13364.6	12865.2	12675.5	12134.2
62.5°	8080.2	8247.6	8694.0	10105.8	11947.3	13741.3	14330.0	14237.9	13679.9	13339.5	13116.3
65°	6548.4	6626.5	7139.9	8688.4	10736.3	13141.4	15181.0	15066.6	14553.2	14045.4	13621.3
67.5°	4241.0	4316.3	4810.1	6202.4	8431.7	11592.9	15147.5	15462.8	14907.6	14296.5	13306.0
70°	2003.3	1983.8	2444.1	3445.8	5401.7	8853.0	14123.5	14745.7	14274.2	12960.1	11051.6
72.5°	611.0	664.0	1015.6	1526.2	2773.4	5521.6	11071.2	11654.3	11506.4	10354.1	7377.1
75°	270.6	293.0	399.0	625.0	1124.4	2265.6	6838.6	7357.5	7293.3	6107.6	3367.7
77.5°	173.0	189.7	251.1	357.1	510.6	719.8	3150.0	3655.0	3543.4	2145.6	881.7
80°	122.8	131.1	178.6	245.5	320.9	295.8	1085.4	1289.0	1236.0	583.1	237.2
82.5°	67.0	72.5	131.1	181.4	214.8	150.7	304.1	379.5	396.2	259.5	114.4
85°	25.1	30.7	80.9	128.3	111.6	69.8	89.3	108.8	142.3	142.3	53.0
87.5°	0.0	2.8	33.5	55.8	27.9	19.5	25.1	30.7	39.1	67.0	19.5
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°	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3	2215.3
2.5°	2240.5	2220.9	2229.3	2243.2	2212.6	2229.3	2195.8	2220.9	2229.3	2195.8	2212.6
5°	2268.4	2287.9	2276.7	2254.4	2234.9	2240.5	2232.1	2212.6	2229.3	2234.9	2223.7
7.5°	2349.3	2327.0	2332.5	2307.4	2268.4	2265.6	2212.6	2198.6	2204.2	2209.8	2190.2
10°	2424.6	2438.6	2410.7	2391.1	2327.0	2285.1	2212.6	2134.4	2126.1	2092.6	2120.5
12.5°	2558.5	2525.0	2513.9	2449.7	2385.5	2246.0	2089.8	1969.8	1869.4	1833.1	1796.8
15°	2670.1	2664.6	2645.0	2547.4	2399.5	2145.6	1849.8	1570.8	1378.3	1258.3	1241.6
17.5°	2823.6	2798.5	2762.2	2608.8	2296.3	1883.3	1378.3	1026.8	834.2	758.9	731.0
20°	2940.8	2921.2	2871.0	2594.8	2109.3	1403.4	853.8	652.9	605.5	591.5	594.3
22.5°	3111.0	3049.6	2954.7	2525.0	1768.9	934.7	613.8	583.1	574.8	563.6	566.4
25°	3258.8	3203.0	3004.9	2405.1	1261.1	619.4	569.2	552.4	538.5	524.5	521.8
27.5°	3390.0	3320.2	3058.0	2159.5	789.6	532.9	527.3	507.8	479.9	457.6	449.2
30°	3518.3	3437.4	3071.9	1699.2	532.9	482.7	468.7	438.0	401.8	371.1	365.5
32.5°	3733.2	3635.5	3052.4	1213.7	460.4	429.7	399.0	362.7	309.7	284.6	279.0
35°	4068.0	3920.1	3027.3	714.3	412.9	379.5	332.0	284.6	245.5	220.4	214.8
37.5°	4453.0	4196.3	2954.7	477.1	379.5	334.8	273.4	226.0	192.5	173.0	167.4
40°	5025.0	4600.9	2675.7	390.6	337.6	284.6	220.4	178.6	153.5	139.5	133.9
42.5°	5655.6	5064.0	2246.0	351.6	298.5	242.7	175.8	145.1	125.6	111.6	111.6
45°	6411.7	5546.7	1732.7	320.9	265.1	200.9	145.1	117.2	100.4	89.3	83.7
47.5°	7254.3	5984.8	1169.1	290.2	223.2	164.6	120.0	89.3	72.5	64.2	64.2
50°	8007.6	6372.6	745.0	253.9	195.3	136.7	97.7	72.5	58.6	47.4	44.6
52.5°	8691.2	6668.4	513.4	223.2	167.4	111.6	80.9	58.6	44.6	36.3	36.3
55°	9391.5	6819.0	379.5	192.5	145.1	94.9	67.0	53.0	39.1	30.7	27.9
57.5°	9966.3	6883.2	290.2	167.4	122.8	75.3	58.6	44.6	33.5	25.1	22.3
60°	10457.3	6852.5	226.0	139.5	97.7	64.2	50.2	36.3	27.9	19.5	16.7
62.5°	10744.7	6668.4	178.6	120.0	78.1	55.8	41.9	30.7	19.5	14.0	11.2
65°	10750.3	6277.7	139.5	89.3	58.6	47.4	36.3	25.1	14.0	5.6	2.8
67.5°	9980.2	5432.3	111.6	69.8	47.4	36.3	27.9	19.5	5.6	0.0	0.0
70°	7806.7	4109.8	92.1	55.8	39.1	30.7	19.5	11.2	2.8	0.0	0.0
72.5°	4974.8	2460.9	75.3	44.6	33.5	22.3	14.0	8.4	0.0	0.0	0.0
75°	2081.4	758.9	58.6	39.1	25.1	16.7	11.2	2.8	0.0	0.0	0.0
77.5°	535.7	239.9	47.4	33.5	25.1	14.0	8.4	2.8	0.0	0.0	0.0
80°	159.0	89.3	39.1	27.9	19.5	11.2	5.6	2.8	0.0	0.0	0.0
82.5°	72.5	53.0	33.5	25.1	16.7	11.2	5.6	0.0	0.0	0.0	0.0
85°	27.9	16.7	16.7	14.0	14.0	8.4	2.8	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	5.6	5.6	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)