

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: P482390

Luminaire Tested: **IFLD-M-SA4C-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482390
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

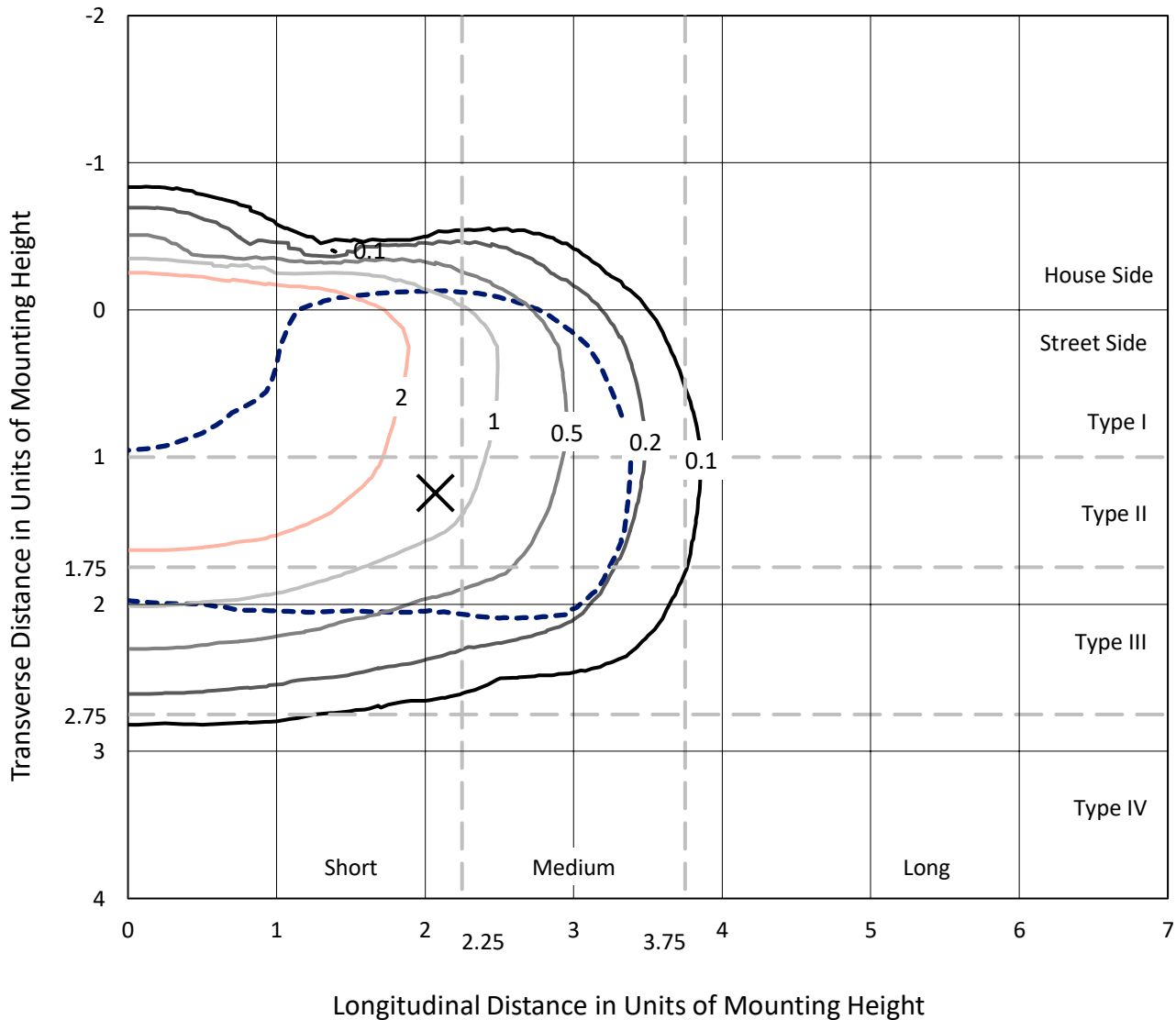
Lumens per Lamp: N/A
Luminaire Lumens: 19210.9 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

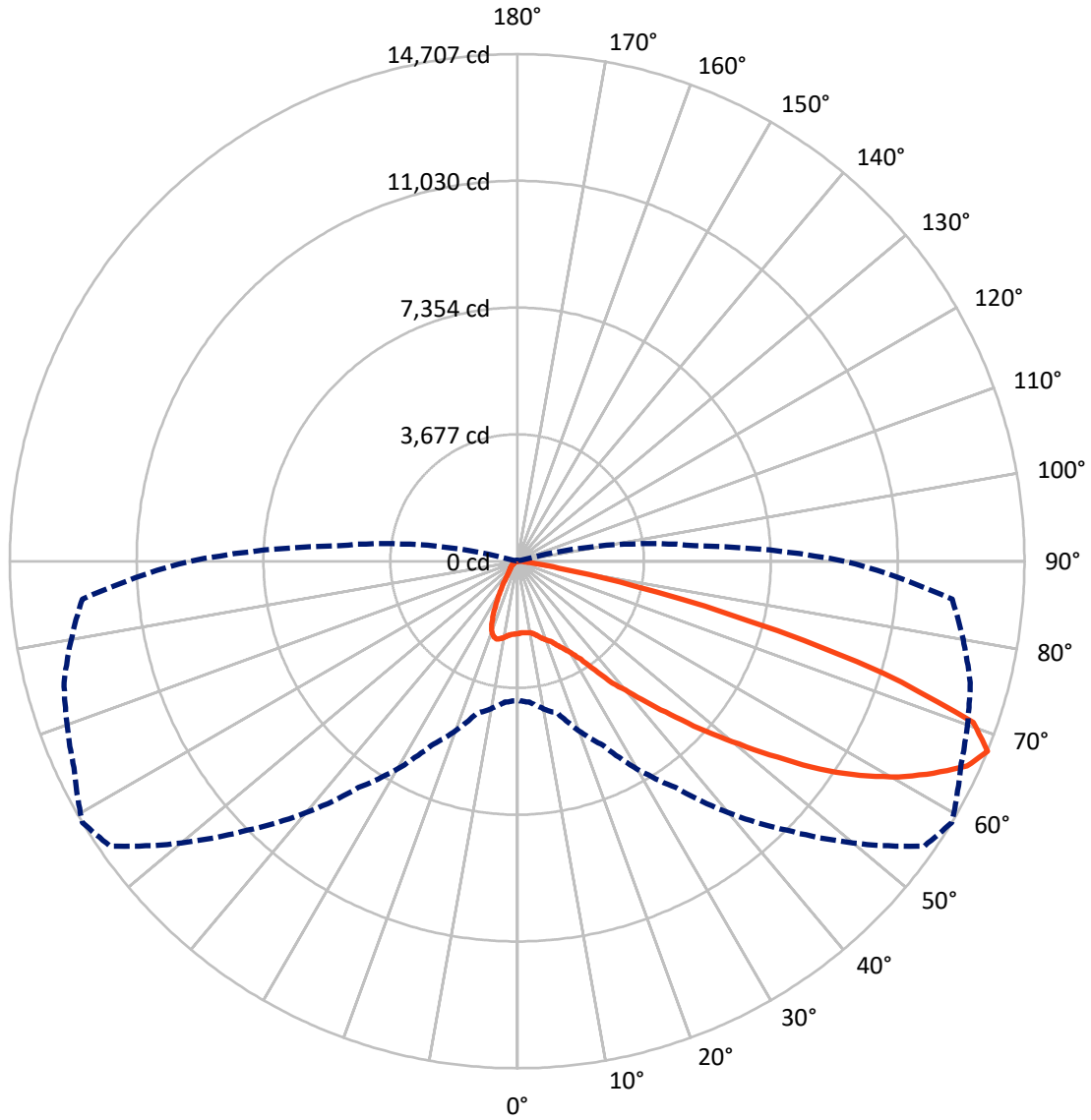
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2256.7	0.0	2256.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	16954.3	0.0	16954.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	19210.9	0.0	19210.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	1.0
10°-20°	578.2	3.0
20°-30°	1010.5	5.3
30°-40°	1779.1	9.3
40°-50°	3144.8	16.4
50°-60°	4979.4	25.9
60°-70°	5523.5	28.8
70°-80°	1916.5	10.0
80°-90°	78.9	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°	19210.9	100.0
0°-180°	19210.9	100.0

Coefficient of Utilization

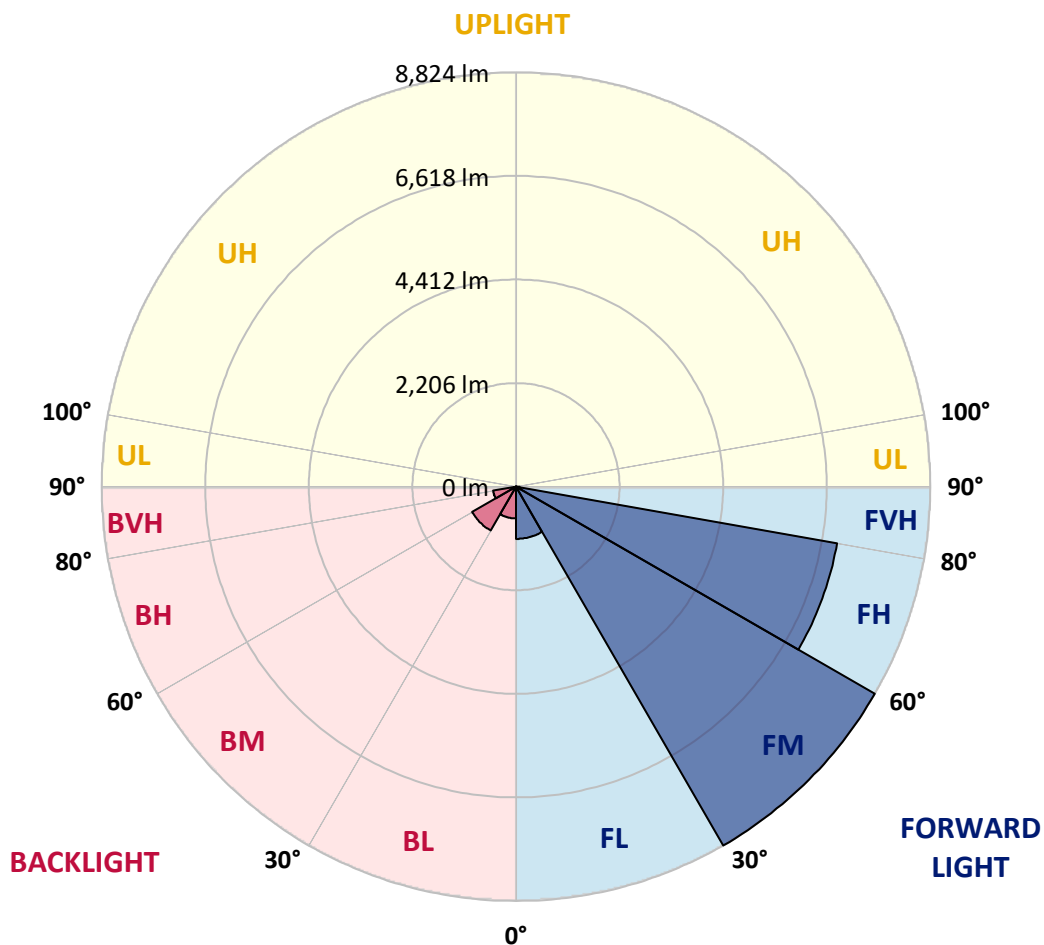


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1112.5	5.8			
FM (30°-60°)	8824.3	45.9			
FH (60°-80°)	6943.7	36.1			G3/7500
FVH (80°-90°)	73.8	0.4			G1/100
BL (0°-30°)	676.3	3.5	B2/1000		
BM (30°-60°)	1078.9	5.6	B2/2500		
BH (60°-80°)	496.3	2.6	B1/500		G1/500
BVH (80°-90°)	5.1	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°	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1
2.5°	2046.1	2016.9	2043.4	2046.1	2048.7	2072.6	2099.1	2080.6	2077.9	2099.1	2117.7
5°	1963.8	1950.5	1982.4	1998.3	2024.8	2046.1	2088.5	2091.2	2093.8	2117.7	2149.6
7.5°	1929.3	1897.4	1934.6	1953.2	1971.8	2022.2	2072.6	2099.1	2136.3	2165.5	2197.3
10°	1860.3	1884.2	1894.8	1926.6	1979.7	2038.1	2099.1	2112.4	2194.7	2218.6	2295.5
12.5°	1884.2	1900.1	1921.3	1929.3	1987.7	2075.2	2157.5	2162.8	2247.7	2351.2	2391.0
15°	1945.2	1934.6	1942.6	1953.2	2022.2	2093.8	2226.5	2250.4	2330.0	2446.8	2545.0
17.5°	2075.2	2056.7	2043.4	2040.7	2056.7	2123.0	2279.6	2351.2	2425.5	2584.8	2635.2
20°	2401.7	2385.7	2332.7	2194.7	2146.9	2173.4	2343.3	2444.1	2547.6	2725.4	2807.7
22.5°	2897.9	2913.8	2789.1	2595.4	2396.4	2292.9	2444.1	2531.7	2696.2	2921.8	2996.1
25°	3484.4	3452.6	3301.3	3075.7	2762.6	2518.4	2606.0	2704.2	2905.9	3091.6	3120.8
27.5°	3943.5	3906.3	3789.6	3516.2	3245.6	2850.1	2818.3	2879.3	3118.2	3285.4	3253.5
30°	4397.3	4410.6	4331.0	4007.2	3672.8	3256.2	3054.5	3081.0	3264.1	3479.1	3407.4
32.5°	4975.8	4944.0	4898.9	4614.9	4219.5	3773.7	3428.7	3386.2	3465.8	3749.8	3664.9
35°	5514.5	5496.0	5434.9	5148.3	4803.3	4317.7	3980.7	3885.1	3866.5	4182.3	4033.7
37.5°	5984.3	5952.4	5859.5	5676.4	5342.0	4933.4	4564.5	4479.6	4476.9	4694.5	4407.9
40°	6379.7	6403.5	6392.9	6191.2	6008.1	5681.7	5116.5	4981.1	4970.5	5087.3	4920.1
42.5°	6891.8	6947.6	6918.4	6878.6	6658.3	6530.9	5891.4	5684.4	5591.5	5830.3	5679.1
45°	7666.7	7688.0	7706.5	7608.4	7388.1	7414.6	6692.8	6446.0	6422.1	6777.7	6438.0
47.5°	8391.2	8335.5	8465.5	8470.8	8460.2	8338.1	7557.9	7374.8	7406.7	7677.4	7327.1
50°	8571.7	8715.0	9073.2	9139.6	9312.1	9423.5	8518.6	8335.5	8388.6	8696.4	8295.7
52.5°	8712.3	8929.9	9288.2	9773.8	10238.2	10503.6	9593.4	9444.8	9442.1	9630.5	9078.5
55°	8959.1	9091.8	9402.3	10071.1	10954.8	11390.0	10888.4	10649.6	10434.6	10567.3	9890.6
57.5°	8935.2	8985.7	9468.7	10294.0	11522.7	12313.5	11952.6	11724.4	11448.4	11371.4	10824.7
60°	8515.9	8635.4	9176.7	10142.7	11873.0	13032.7	12945.1	12711.6	12236.5	12056.1	11541.2
62.5°	7685.3	7844.5	8269.1	9612.0	11363.4	13069.8	13629.8	13542.2	13011.4	12687.7	12475.4
65°	6228.4	6302.7	6791.0	8263.8	10211.7	12499.3	14439.2	14330.4	13842.1	13359.1	12955.7
67.5°	4033.7	4105.4	4575.1	5899.3	8019.7	11026.4	14407.3	14707.2	14179.1	13597.9	12655.8
70°	1905.4	1886.8	2324.7	3277.4	5137.7	8420.4	13433.4	14025.2	13576.7	12326.8	10511.6
72.5°	581.2	631.6	966.0	1451.6	2637.8	5251.8	10530.2	11084.8	10944.1	9848.1	7016.6
75°	257.4	278.6	379.5	594.4	1069.5	2154.9	6504.4	6998.0	6937.0	5809.1	3203.1
77.5°	164.5	180.5	238.8	339.7	485.6	684.7	2996.1	3476.4	3370.3	2040.7	838.6
80°	116.8	124.7	169.8	233.5	305.2	281.3	1032.3	1226.0	1175.6	554.6	225.6
82.5°	63.7	69.0	124.7	172.5	204.3	143.3	289.3	360.9	376.8	246.8	108.8
85°	23.9	29.2	77.0	122.1	106.2	66.3	84.9	103.5	135.3	135.3	50.4
87.5°	0.0	2.7	31.8	53.1	26.5	18.6	23.9	29.2	37.2	63.7	18.6
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°	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1	2107.1
2.5°	2131.0	2112.4	2120.4	2133.6	2104.4	2120.4	2088.5	2112.4	2120.4	2088.5	2104.4
5°	2157.5	2176.1	2165.5	2144.2	2125.7	2131.0	2123.0	2104.4	2120.4	2125.7	2115.1
7.5°	2234.5	2213.2	2218.6	2194.7	2157.5	2154.9	2104.4	2091.2	2096.5	2101.8	2083.2
10°	2306.1	2319.4	2292.9	2274.3	2213.2	2173.4	2104.4	2030.1	2022.2	1990.3	2016.9
12.5°	2433.5	2401.7	2391.0	2330.0	2269.0	2136.3	1987.7	1873.6	1778.0	1743.5	1709.0
15°	2539.7	2534.4	2515.8	2422.9	2282.2	2040.7	1759.4	1494.1	1311.0	1196.9	1180.9
17.5°	2685.6	2661.7	2627.2	2481.3	2184.1	1791.3	1311.0	976.6	793.5	721.8	695.3
20°	2797.1	2778.5	2730.7	2468.0	2006.3	1334.8	812.1	621.0	575.9	562.6	565.3
22.5°	2959.0	2900.6	2810.3	2401.7	1682.5	889.0	583.8	554.6	546.7	536.1	538.7
25°	3099.6	3046.5	2858.1	2287.5	1199.5	589.1	541.4	525.4	512.2	498.9	496.3
27.5°	3224.3	3158.0	2908.5	2054.0	751.0	506.9	501.6	483.0	456.4	435.2	427.3
30°	3346.4	3269.4	2921.8	1616.1	506.9	459.1	445.8	416.6	382.1	353.0	347.6
32.5°	3550.7	3457.9	2903.2	1154.4	437.9	408.7	379.5	345.0	294.6	270.7	265.4
35°	3869.2	3728.5	2879.3	679.4	392.8	360.9	315.8	270.7	233.5	209.6	204.3
37.5°	4235.4	3991.3	2810.3	453.8	360.9	318.5	260.1	215.0	183.1	164.5	159.2
40°	4779.4	4376.1	2545.0	371.5	321.1	270.7	209.6	169.8	146.0	132.7	127.4
42.5°	5379.2	4816.6	2136.3	334.4	284.0	230.9	167.2	138.0	119.4	106.2	106.2
45°	6098.4	5275.7	1648.0	305.2	252.1	191.1	138.0	111.5	95.5	84.9	79.6
47.5°	6899.8	5692.3	1111.9	276.0	212.3	156.6	114.1	84.9	69.0	61.0	61.0
50°	7616.3	6061.2	708.6	241.5	185.8	130.0	92.9	69.0	55.7	45.1	42.5
52.5°	8266.5	6342.5	488.3	212.3	159.2	106.2	77.0	55.7	42.5	34.5	34.5
55°	8932.6	6485.8	360.9	183.1	138.0	90.2	63.7	50.4	37.2	29.2	26.5
57.5°	9479.3	6546.9	276.0	159.2	116.8	71.7	55.7	42.5	31.8	23.9	21.2
60°	9946.3	6517.7	215.0	132.7	92.9	61.0	47.8	34.5	26.5	18.6	15.9
62.5°	10219.7	6342.5	169.8	114.1	74.3	53.1	39.8	29.2	18.6	13.3	10.6
65°	10225.0	5971.0	132.7	84.9	55.7	45.1	34.5	23.9	13.3	5.3	2.7
67.5°	9492.5	5166.9	106.2	66.3	45.1	34.5	26.5	18.6	5.3	0.0	0.0
70°	7425.2	3909.0	87.6	53.1	37.2	29.2	18.6	10.6	2.7	0.0	0.0
72.5°	4731.7	2340.6	71.7	42.5	31.8	21.2	13.3	8.0	0.0	0.0	0.0
75°	1979.7	721.8	55.7	37.2	23.9	15.9	10.6	2.7	0.0	0.0	0.0
77.5°	509.5	228.2	45.1	31.8	23.9	13.3	8.0	2.7	0.0	0.0	0.0
80°	151.3	84.9	37.2	26.5	18.6	10.6	5.3	2.7	0.0	0.0	0.0
82.5°	69.0	50.4	31.8	23.9	15.9	10.6	5.3	0.0	0.0	0.0	0.0
85°	26.5	15.9	15.9	13.3	13.3	8.0	2.7	0.0	0.0	0.0	0.0
87.5°	10.6	5.3	5.3	5.3	2.7	2.7	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)