

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: P482422

Luminaire Tested: **IFLD-S-SA6A-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482422
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

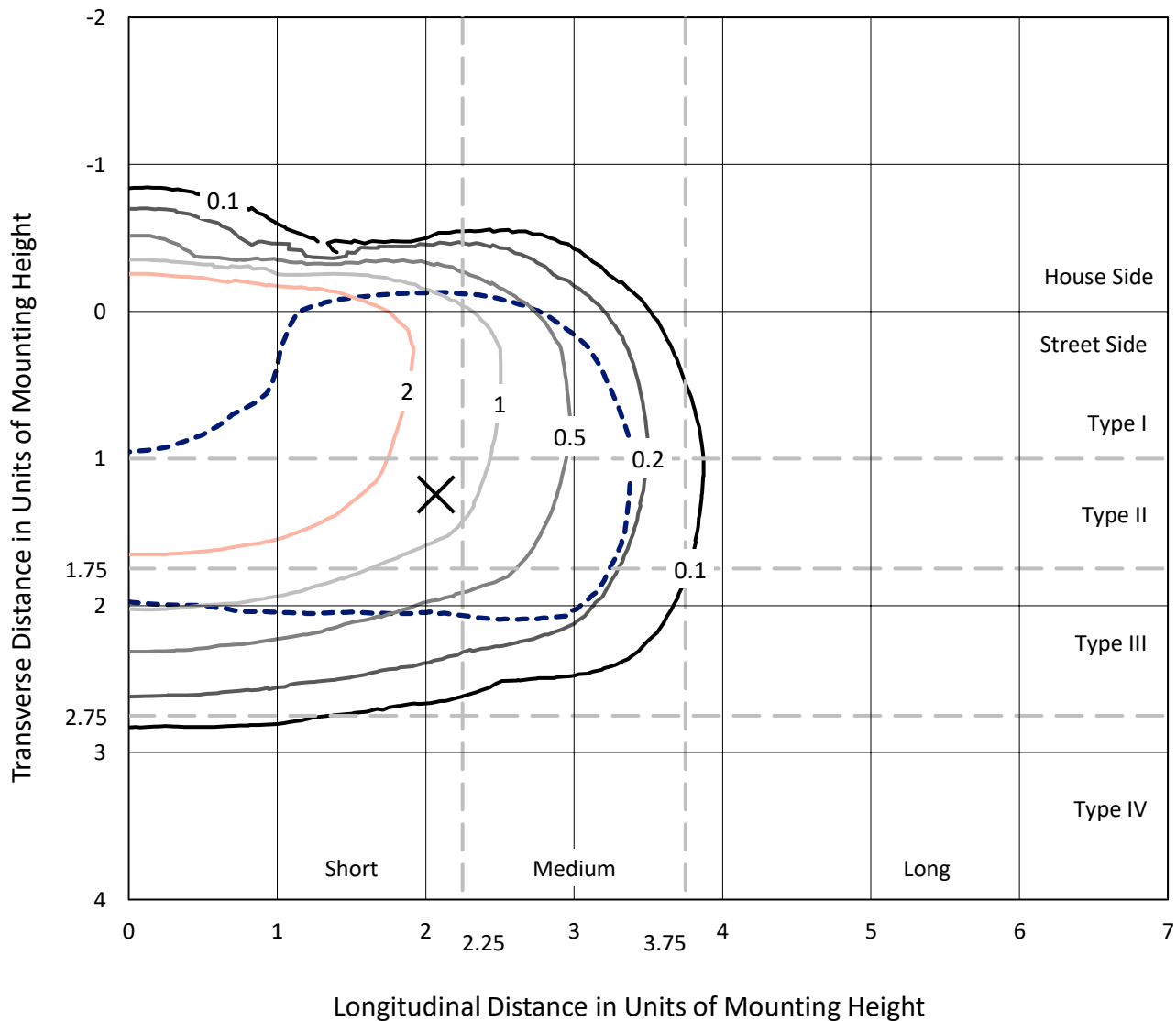
Lumens per Lamp: N/A
Luminaire Lumens: 19752.8 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (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

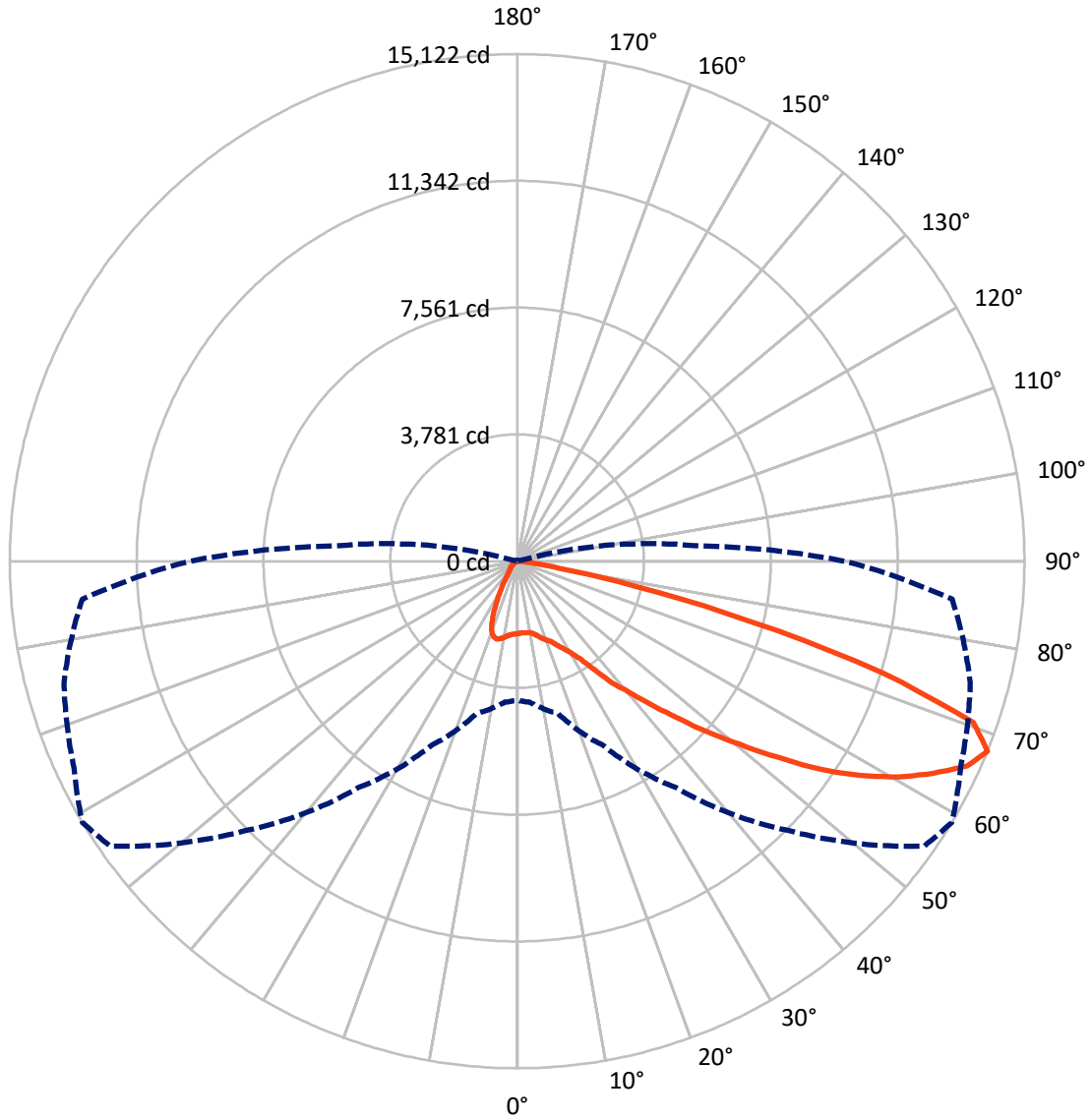
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2320.3	0.0	2320.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	17432.5	0.0	17432.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	19752.8	0.0	19752.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	1.0
10°-20°	594.5	3.0
20°-30°	1039.0	5.3
30°-40°	1829.2	9.3
40°-50°	3233.5	16.4
50°-60°	5119.8	25.9
60°-70°	5679.3	28.8
70°-80°	1970.6	10.0
80°-90°	81.1	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°	19752.8	100.0
0°-180°	19752.8	100.0

Coefficient of Utilization

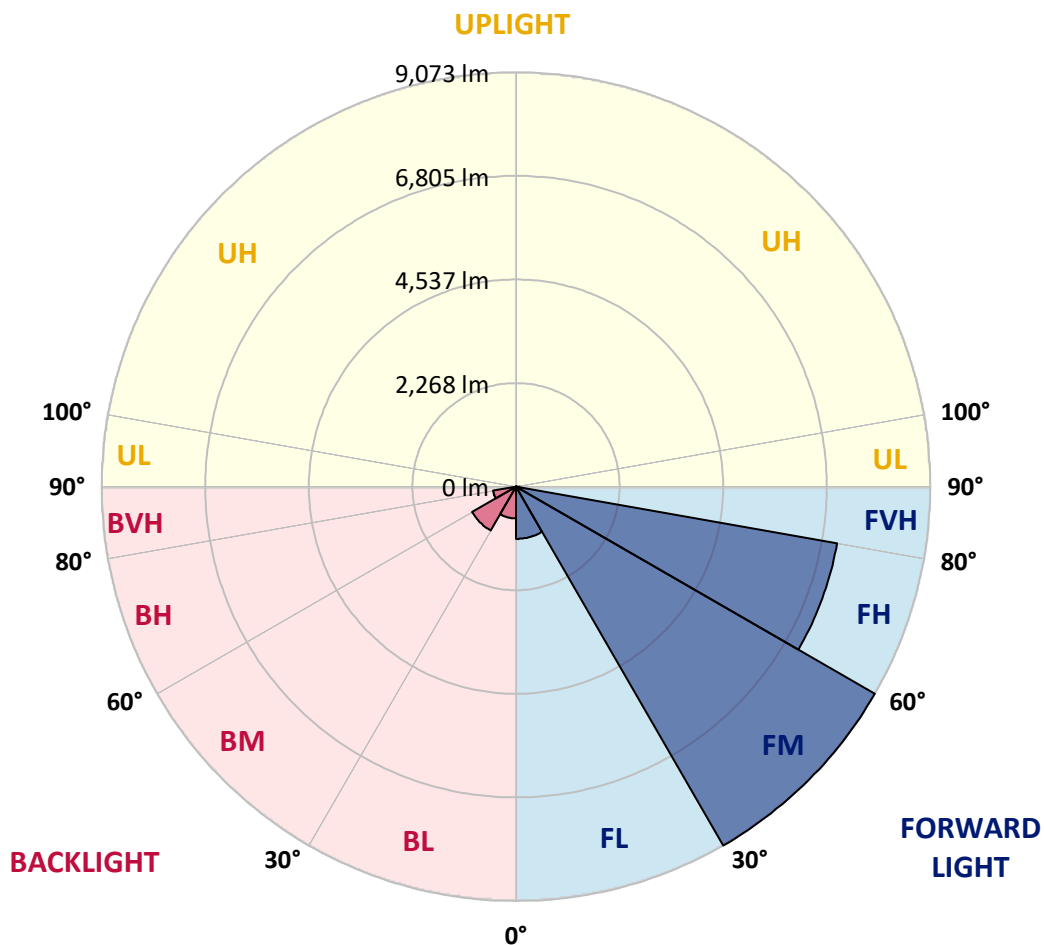


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.8	5.8			
FM (30°-60°)	9073.2	45.9			
FH (60°-80°)	7139.6	36.1			G3/7500
FVH (80°-90°)	75.9	0.4			G1/100
BL (0°-30°)	695.4	3.5	B2/1000		
BM (30°-60°)	1109.4	5.6	B2/2500		
BH (60°-80°)	510.3	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.3	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°	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5
2.5°	2103.8	2073.8	2101.0	2103.8	2106.5	2131.1	2158.3	2139.2	2136.5	2158.3	2177.4
5°	2019.2	2005.5	2038.3	2054.7	2081.9	2103.8	2147.4	2150.2	2152.9	2177.4	2210.2
7.5°	1983.7	1951.0	1989.2	2008.3	2027.4	2079.2	2131.1	2158.3	2196.5	2226.6	2259.3
10°	1912.8	1937.3	1948.2	1981.0	2035.6	2095.6	2158.3	2172.0	2256.6	2281.1	2360.3
12.5°	1937.3	1953.7	1975.5	1983.7	2043.7	2133.8	2218.4	2223.8	2311.1	2417.6	2458.5
15°	2000.1	1989.2	1997.4	2008.3	2079.2	2152.9	2289.3	2313.9	2395.7	2515.8	2616.8
17.5°	2133.8	2114.7	2101.0	2098.3	2114.7	2182.9	2343.9	2417.6	2494.0	2657.7	2709.5
20°	2469.4	2453.0	2398.5	2256.6	2207.5	2234.7	2409.4	2513.1	2619.5	2802.3	2886.9
22.5°	2979.7	2996.0	2867.8	2668.6	2463.9	2357.5	2513.1	2603.1	2772.3	3004.2	3080.6
25°	3582.7	3549.9	3394.4	3162.5	2840.5	2589.5	2679.5	2780.5	2987.8	3178.8	3208.9
27.5°	4054.7	4016.5	3896.5	3615.4	3337.1	2930.5	2897.8	2960.6	3206.1	3378.0	3345.3
30°	4521.3	4535.0	4453.1	4120.2	3776.4	3348.0	3140.6	3167.9	3356.2	3577.2	3503.6
32.5°	5116.2	5083.4	5037.0	4745.1	4338.5	3880.1	3525.4	3481.7	3563.6	3855.5	3768.2
35°	5670.1	5651.0	5588.2	5293.5	4938.8	4439.5	4092.9	3994.7	3975.6	4300.3	4147.5
37.5°	6153.1	6120.3	6024.8	5836.5	5492.7	5072.5	4693.2	4605.9	4603.2	4826.9	4532.2
40°	6559.6	6584.2	6573.3	6365.9	6177.6	5842.0	5260.8	5121.6	5110.7	5230.8	5058.9
42.5°	7086.2	7143.5	7113.5	7072.6	6846.1	6715.1	6057.6	5844.7	5749.2	5994.8	5839.3
45°	7883.0	7904.8	7923.9	7823.0	7596.5	7623.8	6881.6	6627.8	6603.3	6968.9	6619.6
47.5°	8627.9	8570.6	8704.3	8709.8	8698.9	8573.3	7771.1	7582.9	7615.6	7893.9	7533.7
50°	8813.5	8960.8	9329.2	9397.4	9574.8	9689.4	8758.9	8570.6	8625.2	8941.7	8529.7
52.5°	8958.1	9181.8	9550.2	10049.5	10527.0	10799.9	9864.0	9711.2	9708.5	9902.2	9334.6
55°	9211.8	9348.3	9667.5	10355.1	11263.8	11711.3	11195.6	10950.0	10729.0	10865.4	10169.6
57.5°	9187.3	9239.1	9735.7	10584.3	11847.7	12660.8	12289.7	12055.1	11771.3	11692.2	11130.1
60°	8756.2	8879.0	9435.6	10428.8	12207.9	13400.3	13310.2	13070.1	12581.7	12396.1	11866.8
62.5°	7902.1	8065.8	8502.4	9883.1	11684.0	13438.5	14014.2	13924.2	13378.5	13045.6	12827.3
65°	6404.1	6480.5	6982.6	8496.9	10499.8	12851.8	14846.5	14734.6	14232.5	13735.9	13321.2
67.5°	4147.5	4221.2	4704.2	6065.7	8245.9	11337.4	14813.7	15122.0	14579.1	13981.5	13012.8
70°	1959.2	1940.1	2390.3	3369.9	5282.6	8657.9	13812.3	14420.8	13959.7	12674.5	10808.1
72.5°	597.6	649.4	993.2	1492.6	2712.3	5400.0	10827.2	11397.5	11252.9	10125.9	7214.5
75°	264.7	286.5	390.2	611.2	1099.6	2215.6	6687.9	7195.4	7132.6	5973.0	3293.5
77.5°	169.2	185.5	245.6	349.3	499.3	704.0	3080.6	3574.5	3465.4	2098.3	862.2
80°	120.1	128.2	174.6	240.1	313.8	289.2	1061.4	1260.6	1208.8	570.3	231.9
82.5°	65.5	70.9	128.2	177.4	210.1	147.3	297.4	371.1	387.5	253.8	111.9
85°	24.6	30.0	79.1	125.5	109.1	68.2	87.3	106.4	139.2	139.2	51.8
87.5°	0.0	2.7	32.7	54.6	27.3	19.1	24.6	30.0	38.2	65.5	19.1
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°	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5	2166.5
2.5°	2191.1	2172.0	2180.2	2193.8	2163.8	2180.2	2147.4	2172.0	2180.2	2147.4	2163.8
5°	2218.4	2237.5	2226.6	2204.7	2185.6	2191.1	2182.9	2163.8	2180.2	2185.6	2174.7
7.5°	2297.5	2275.7	2281.1	2256.6	2218.4	2215.6	2163.8	2150.2	2155.6	2161.1	2142.0
10°	2371.2	2384.8	2357.5	2338.4	2275.7	2234.7	2163.8	2087.4	2079.2	2046.5	2073.8
12.5°	2502.2	2469.4	2458.5	2395.7	2333.0	2196.5	2043.7	1926.4	1828.2	1792.7	1757.2
15°	2611.3	2605.8	2586.7	2491.2	2346.6	2098.3	1809.1	1536.2	1347.9	1230.6	1214.2
17.5°	2761.4	2736.8	2701.3	2551.3	2245.7	1841.8	1347.9	1004.1	815.9	742.2	714.9
20°	2876.0	2856.9	2807.8	2537.6	2062.8	1372.5	835.0	638.5	592.1	578.5	581.2
22.5°	3042.4	2982.4	2889.6	2469.4	1729.9	914.1	600.3	570.3	562.1	551.2	553.9
25°	3187.0	3132.5	2938.7	2352.1	1233.3	605.8	556.6	540.3	526.6	513.0	510.3
27.5°	3315.3	3247.1	2990.6	2112.0	772.2	521.2	515.7	496.6	469.3	447.5	439.3
30°	3440.8	3361.7	3004.2	1661.7	521.2	472.1	458.4	428.4	392.9	362.9	357.5
32.5°	3650.9	3555.4	2985.1	1187.0	450.2	420.2	390.2	354.7	302.9	278.3	272.9
35°	3978.3	3833.7	2960.6	698.5	403.8	371.1	324.7	278.3	240.1	215.6	210.1
37.5°	4354.9	4103.9	2889.6	466.6	371.1	327.4	267.4	221.0	188.3	169.2	163.7
40°	4914.3	4499.5	2616.8	382.0	330.2	278.3	215.6	174.6	150.1	136.4	131.0
42.5°	5530.9	4952.5	2196.5	343.8	292.0	237.4	171.9	141.9	122.8	109.1	109.1
45°	6270.4	5424.5	1694.5	313.8	259.2	196.5	141.9	114.6	98.2	87.3	81.9
47.5°	7094.4	5852.9	1143.3	283.8	218.3	161.0	117.3	87.3	70.9	62.8	62.8
50°	7831.2	6232.2	728.5	248.3	191.0	133.7	95.5	70.9	57.3	46.4	43.7
52.5°	8499.7	6521.4	502.1	218.3	163.7	109.1	79.1	57.3	43.7	35.5	35.5
55°	9184.6	6668.8	371.1	188.3	141.9	92.8	65.5	51.8	38.2	30.0	27.3
57.5°	9746.7	6731.5	283.8	163.7	120.1	73.7	57.3	43.7	32.7	24.6	21.8
60°	10226.9	6701.5	221.0	136.4	95.5	62.8	49.1	35.5	27.3	19.1	16.4
62.5°	10507.9	6521.4	174.6	117.3	76.4	54.6	40.9	30.0	19.1	13.6	10.9
65°	10513.4	6139.4	136.4	87.3	57.3	46.4	35.5	24.6	13.6	5.5	2.7
67.5°	9760.3	5312.6	109.1	68.2	46.4	35.5	27.3	19.1	5.5	0.0	0.0
70°	7634.7	4019.3	90.0	54.6	38.2	30.0	19.1	10.9	2.7	0.0	0.0
72.5°	4865.1	2406.6	73.7	43.7	32.7	21.8	13.6	8.2	0.0	0.0	0.0
75°	2035.6	742.2	57.3	38.2	24.6	16.4	10.9	2.7	0.0	0.0	0.0
77.5°	523.9	234.7	46.4	32.7	24.6	13.6	8.2	2.7	0.0	0.0	0.0
80°	155.5	87.3	38.2	27.3	19.1	10.9	5.5	2.7	0.0	0.0	0.0
82.5°	70.9	51.8	32.7	24.6	16.4	10.9	5.5	0.0	0.0	0.0	0.0
85°	27.3	16.4	16.4	13.6	13.6	8.2	2.7	0.0	0.0	0.0	0.0
87.5°	10.9	5.5	5.5	5.5	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)