

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: P482461

Luminaire Tested: **IFLD-S-SA6A-740-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

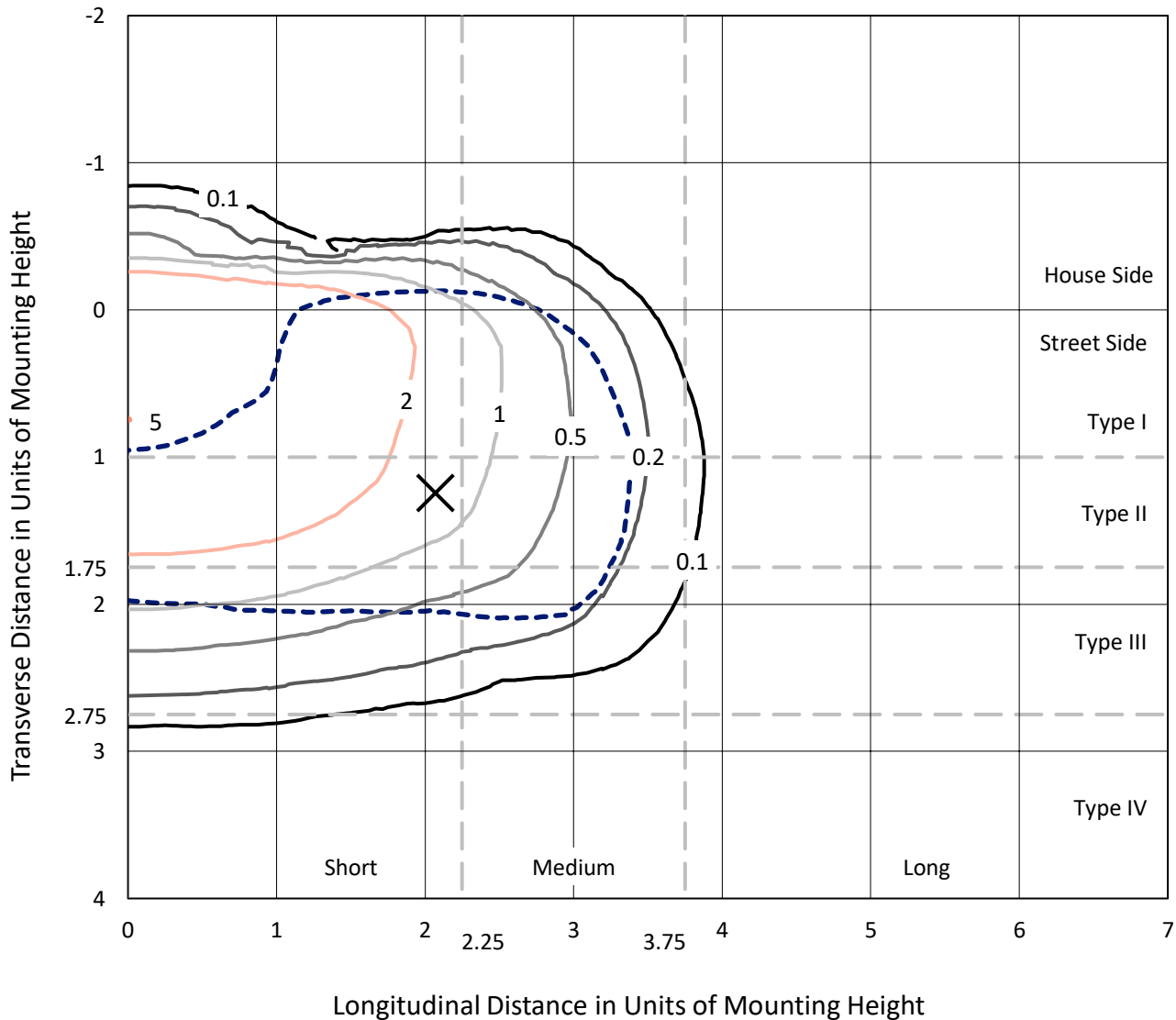
Lumens per Lamp: N/A
Luminaire Lumens: 20027.2 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

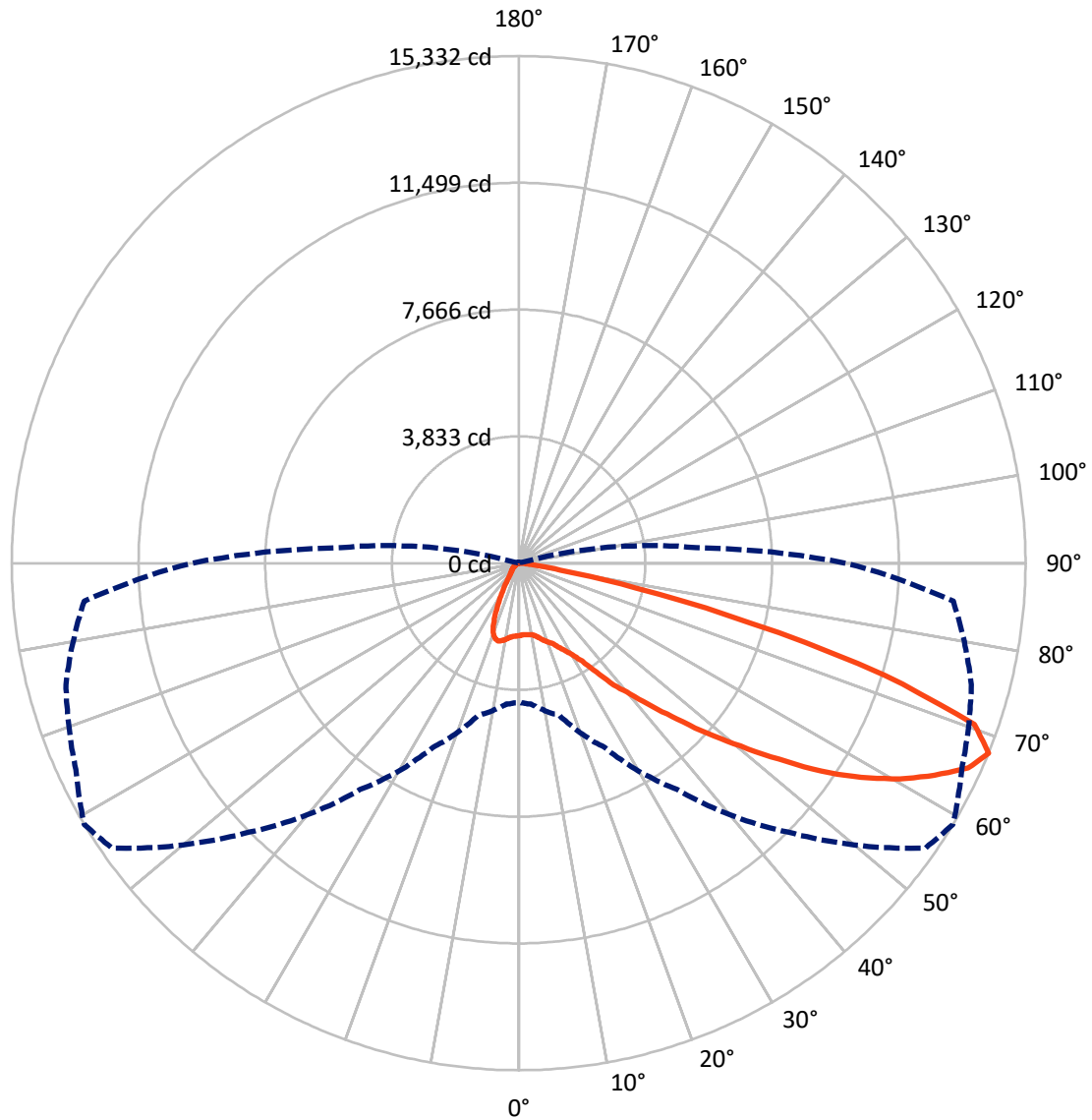
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2352.5	0.0	2352.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	17674.7	0.0	17674.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	20027.2	0.0	20027.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.0
10°-20°	602.7	3.0
20°-30°	1053.4	5.3
30°-40°	1854.6	9.3
40°-50°	3278.4	16.4
50°-60°	5190.9	25.9
60°-70°	5758.2	28.8
70°-80°	1998.0	10.0
80°-90°	82.3	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°	20027.2	100.0
0°-180°	20027.2	100.0

Coefficient of Utilization

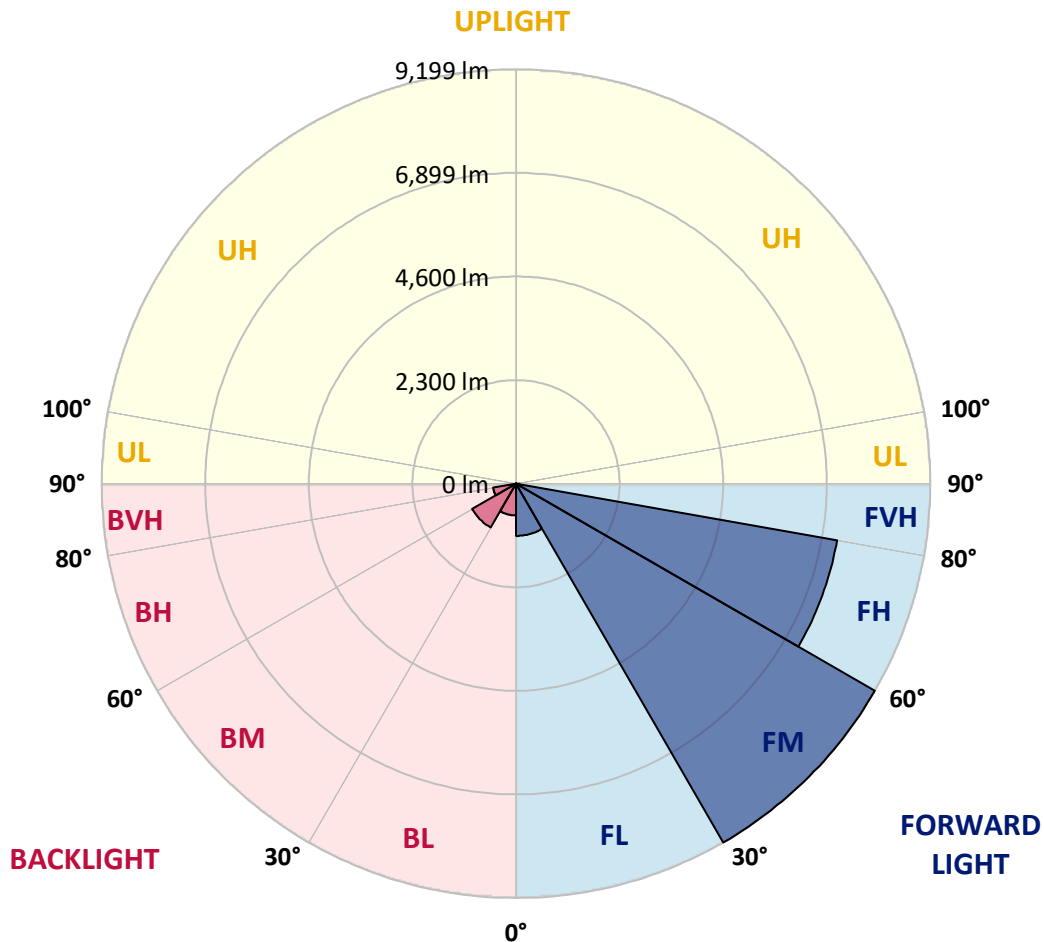


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.7	5.8			
FM (30°-60°)	9199.2	45.9			
FH (60°-80°)	7238.8	36.1			G3/7500
FVH (80°-90°)	77.0	0.4			G1/100
BL (0°-30°)	705.1	3.5	B2/1000		
BM (30°-60°)	1124.8	5.6	B2/2500		
BH (60°-80°)	517.4	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°	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6
2.5°	2133.0	2102.6	2130.2	2133.0	2135.8	2160.7	2188.3	2169.0	2166.2	2188.3	2207.7
5°	2047.2	2033.4	2066.6	2083.2	2110.9	2133.0	2177.3	2180.0	2182.8	2207.7	2240.9
7.5°	2011.3	1978.1	2016.8	2036.2	2055.5	2108.1	2160.7	2188.3	2227.1	2257.5	2290.7
10°	1939.3	1964.2	1975.3	2008.5	2063.8	2124.7	2188.3	2202.2	2287.9	2312.8	2393.0
12.5°	1964.2	1980.8	2003.0	2011.3	2072.1	2163.4	2249.2	2254.7	2343.2	2451.1	2492.6
15°	2027.9	2016.8	2025.1	2036.2	2108.1	2182.8	2321.1	2346.0	2429.0	2550.7	2653.1
17.5°	2163.4	2144.1	2130.2	2127.5	2144.1	2213.2	2376.4	2451.1	2528.6	2694.6	2747.2
20°	2503.7	2487.1	2431.8	2287.9	2238.1	2265.8	2442.8	2548.0	2655.9	2841.2	2927.0
22.5°	3021.0	3037.6	2907.6	2705.7	2498.2	2390.3	2548.0	2639.3	2810.8	3045.9	3123.4
25°	3632.5	3599.3	3441.6	3206.4	2880.0	2625.4	2716.7	2819.1	3029.3	3223.0	3253.4
27.5°	4111.1	4072.3	3950.6	3665.6	3383.5	2971.3	2938.1	3001.7	3250.7	3425.0	3391.8
30°	4584.1	4598.0	4515.0	4177.5	3828.9	3394.5	3184.3	3211.9	3402.8	3626.9	3552.2
32.5°	5187.2	5154.0	5107.0	4811.0	4398.8	3934.0	3574.4	3530.1	3613.1	3909.1	3820.6
35°	5748.8	5729.5	5665.8	5367.1	5007.4	4501.1	4149.8	4050.2	4030.8	4360.0	4205.1
37.5°	6238.5	6205.3	6108.5	5917.6	5569.0	5143.0	4758.4	4669.9	4667.1	4894.0	4595.2
40°	6650.7	6675.6	6664.6	6454.3	6263.4	5923.1	5333.9	5192.8	5181.7	5303.4	5129.1
42.5°	7184.7	7242.8	7212.3	7170.8	6941.2	6808.4	6141.7	5925.9	5829.1	6078.1	5920.4
45°	7992.5	8014.6	8034.0	7931.6	7702.0	7729.7	6977.2	6719.9	6695.0	7065.7	6711.6
47.5°	8747.8	8689.7	8825.2	8830.8	8819.7	8692.4	7879.1	7688.2	7721.4	8003.6	7638.4
50°	8935.9	9085.3	9458.8	9527.9	9707.7	9823.9	8880.6	8689.7	8745.0	9065.9	8648.2
52.5°	9082.5	9309.4	9682.8	10189.1	10673.3	10949.9	10001.0	9846.1	9843.3	10039.7	9464.3
55°	9339.8	9478.1	9801.8	10499.0	11420.2	11873.9	11351.1	11102.1	10878.0	11016.3	10310.8
57.5°	9314.9	9367.5	9871.0	10731.4	12012.3	12836.7	12460.4	12222.5	11934.8	11854.6	11284.7
60°	8877.8	9002.3	9566.7	10573.7	12377.4	13586.4	13495.1	13251.7	12756.5	12568.3	12031.6
62.5°	8011.9	8177.9	8620.5	10020.4	11846.3	13625.1	14208.9	14117.6	13564.3	13226.8	13005.4
65°	6493.0	6570.5	7079.5	8615.0	10645.6	13030.3	15052.7	14939.3	14430.2	13926.7	13506.2
67.5°	4205.1	4279.8	4769.5	6150.0	8360.4	11494.9	15019.5	15332.1	14781.6	14175.7	13193.6
70°	1986.4	1967.0	2423.5	3416.7	5356.0	8778.2	14004.2	14621.1	14153.6	12850.5	10958.2
72.5°	605.9	658.4	1007.0	1513.3	2749.9	5475.0	10977.6	11555.8	11409.2	10266.6	7314.7
75°	268.4	290.5	395.6	619.7	1114.9	2246.4	6780.8	7295.3	7231.7	6055.9	3339.2
77.5°	171.5	188.1	249.0	354.1	506.3	713.8	3123.4	3624.2	3513.5	2127.5	874.2
80°	121.7	130.0	177.1	243.5	318.2	293.3	1076.2	1278.1	1225.6	578.2	235.2
82.5°	66.4	71.9	130.0	179.8	213.0	149.4	301.6	376.2	392.8	257.3	113.4
85°	24.9	30.4	80.2	127.3	110.7	69.2	88.5	107.9	141.1	141.1	52.6
87.5°	0.0	2.8	33.2	55.3	27.7	19.4	24.9	30.4	38.7	66.4	19.4
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°	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6	2196.6
2.5°	2221.5	2202.2	2210.5	2224.3	2193.9	2210.5	2177.3	2202.2	2210.5	2177.3	2193.9
5°	2249.2	2268.6	2257.5	2235.4	2216.0	2221.5	2213.2	2193.9	2210.5	2216.0	2204.9
7.5°	2329.4	2307.3	2312.8	2287.9	2249.2	2246.4	2193.9	2180.0	2185.6	2191.1	2171.7
10°	2404.1	2417.9	2390.3	2370.9	2307.3	2265.8	2193.9	2116.4	2108.1	2074.9	2102.6
12.5°	2536.9	2503.7	2492.6	2429.0	2365.4	2227.1	2072.1	1953.2	1853.6	1817.6	1781.6
15°	2647.6	2642.0	2622.7	2525.8	2379.2	2127.5	1834.2	1557.6	1366.7	1247.7	1231.1
17.5°	2799.7	2774.8	2738.9	2586.7	2276.9	1867.4	1366.7	1018.1	827.2	752.5	724.8
20°	2915.9	2896.6	2846.8	2572.9	2091.5	1391.6	846.6	647.4	600.3	586.5	589.3
22.5°	3084.7	3023.8	2929.8	2503.7	1754.0	926.8	608.6	578.2	569.9	558.8	561.6
25°	3231.3	3176.0	2979.6	2384.7	1250.5	614.2	564.4	547.8	533.9	520.1	517.3
27.5°	3361.3	3292.2	3032.1	2141.3	782.9	528.4	522.9	503.5	475.8	453.7	445.4
30°	3488.6	3408.4	3045.9	1684.8	528.4	478.6	464.8	434.3	398.4	367.9	362.4
32.5°	3701.6	3604.8	3026.6	1203.4	456.5	426.0	395.6	359.6	307.1	282.2	276.7
35°	4033.6	3887.0	3001.7	708.2	409.4	376.2	329.2	282.2	243.5	218.6	213.0
37.5°	4415.4	4160.9	2929.8	473.1	376.2	332.0	271.1	224.1	190.9	171.5	166.0
40°	4982.5	4562.0	2653.1	387.3	334.7	282.2	218.6	177.1	152.2	138.3	132.8
42.5°	5607.8	5021.2	2227.1	348.6	296.0	240.7	174.3	143.9	124.5	110.7	110.7
45°	6357.5	5499.9	1718.0	318.2	262.8	199.2	143.9	116.2	99.6	88.5	83.0
47.5°	7193.0	5934.2	1159.2	287.7	221.3	163.2	119.0	88.5	71.9	63.6	63.6
50°	7939.9	6318.7	738.7	251.8	193.7	135.6	96.8	71.9	58.1	47.0	44.3
52.5°	8617.7	6612.0	509.0	221.3	166.0	110.7	80.2	58.1	44.3	36.0	36.0
55°	9312.1	6761.4	376.2	190.9	143.9	94.1	66.4	52.6	38.7	30.4	27.7
57.5°	9882.0	6825.0	287.7	166.0	121.7	74.7	58.1	44.3	33.2	24.9	22.1
60°	10368.9	6794.6	224.1	138.3	96.8	63.6	49.8	36.0	27.7	19.4	16.6
62.5°	10653.9	6612.0	177.1	119.0	77.5	55.3	41.5	30.4	19.4	13.8	11.1
65°	10659.4	6224.7	138.3	88.5	58.1	47.0	36.0	24.9	13.8	5.5	2.8
67.5°	9895.9	5386.4	110.7	69.2	47.0	36.0	27.7	19.4	5.5	0.0	0.0
70°	7740.7	4075.1	91.3	55.3	38.7	30.4	19.4	11.1	2.8	0.0	0.0
72.5°	4932.7	2440.1	74.7	44.3	33.2	22.1	13.8	8.3	0.0	0.0	0.0
75°	2063.8	752.5	58.1	38.7	24.9	16.6	11.1	2.8	0.0	0.0	0.0
77.5°	531.2	237.9	47.0	33.2	24.9	13.8	8.3	2.8	0.0	0.0	0.0
80°	157.7	88.5	38.7	27.7	19.4	11.1	5.5	2.8	0.0	0.0	0.0
82.5°	71.9	52.6	33.2	24.9	16.6	11.1	5.5	0.0	0.0	0.0	0.0
85°	27.7	16.6	16.6	13.8	13.8	8.3	2.8	0.0	0.0	0.0	0.0
87.5°	11.1	5.5	5.5	5.5	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)