

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: P483870

Luminaire Tested: **IFLD-M-SA4A-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483870
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

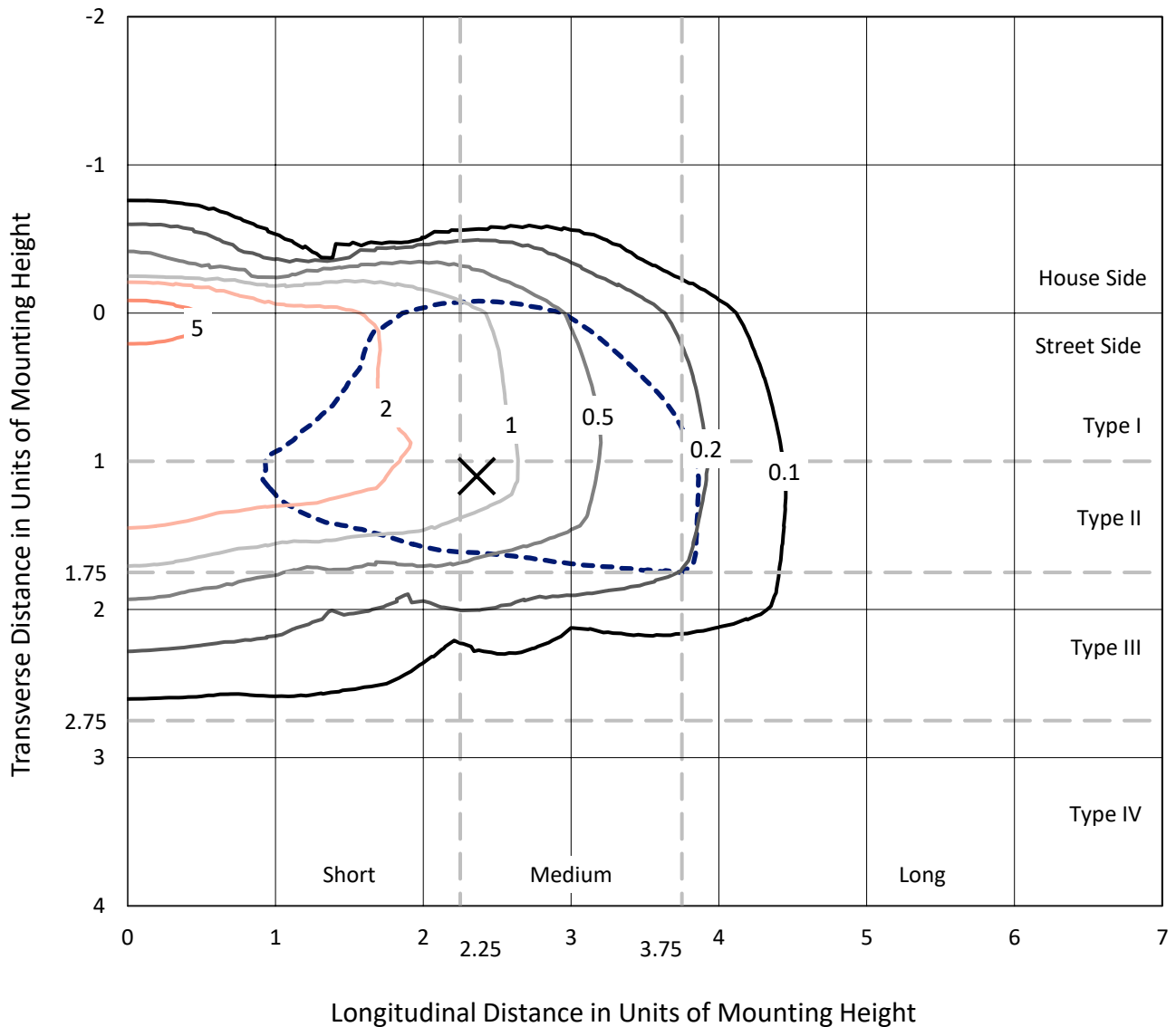
Lumens per Lamp: N/A
Luminaire Lumens: 11196 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

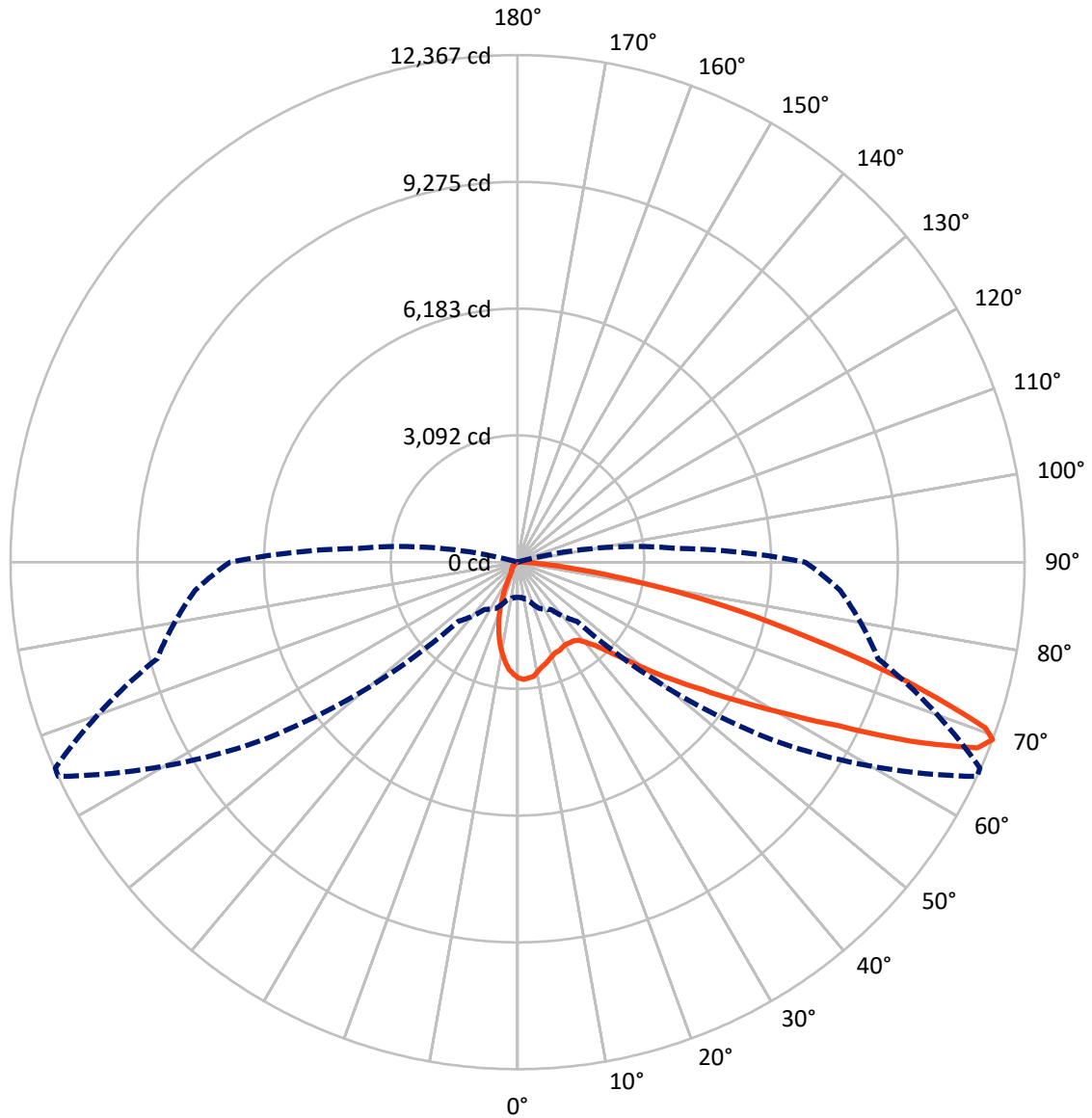
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.1	0.0	1358.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9837.9	0.0	9837.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	11196.0	0.0	11196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	2.1
10°-20°	505.4	4.5
20°-30°	703.7	6.3
30°-40°	997.1	8.9
40°-50°	1571.5	14.0
50°-60°	2549.9	22.8
60°-70°	2847.8	25.4
70°-80°	1603.6	14.3
80°-90°	186.1	1.7
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°	11196.0	100.0
0°-180°	11196.0	100.0

Coefficient of Utilization

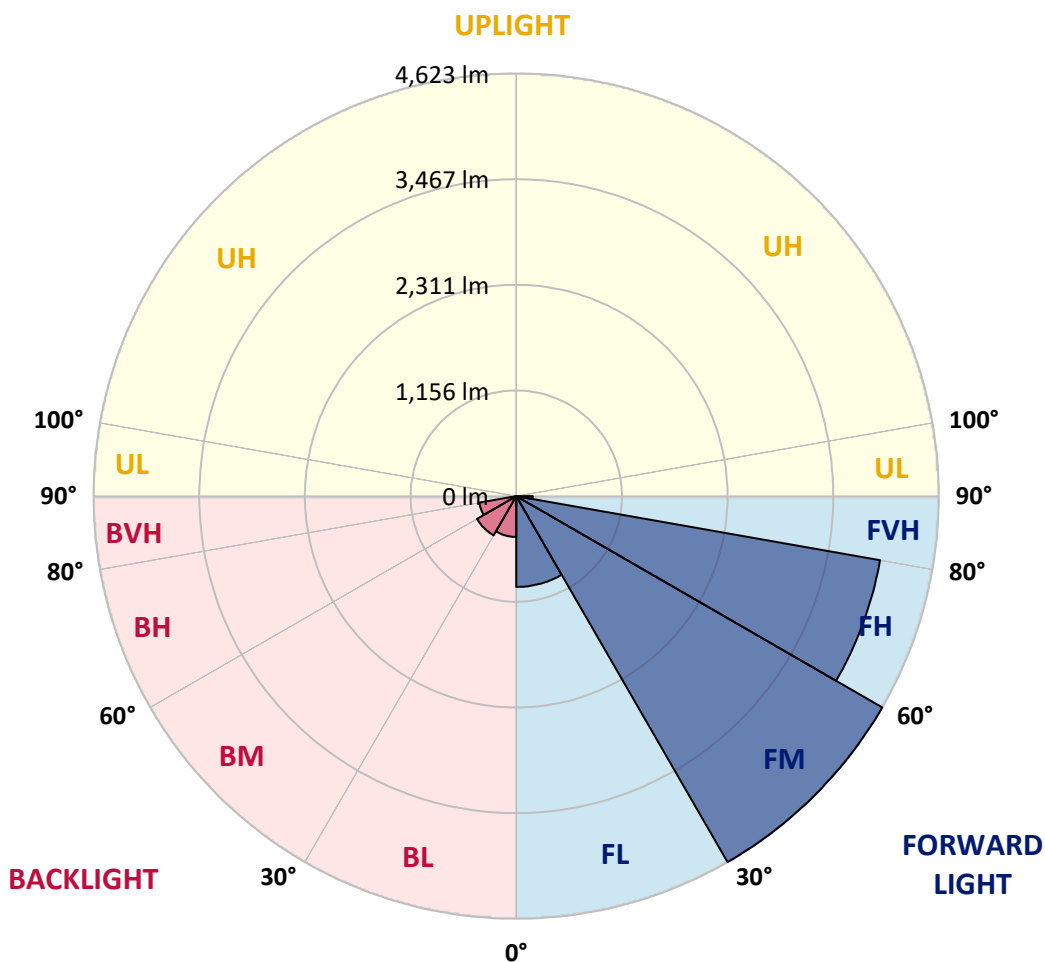


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.5	8.9			
FM (30°-60°)	4622.9	41.3			
FH (60°-80°)	4040.4	36.1			G2/5000
FVH (80°-90°)	180.9	1.6			G2/225
BL (0°-30°)	446.5	4.0	B1/500		
BM (30°-60°)	495.6	4.4	B1/1000		
BH (60°-80°)	410.9	3.7	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: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8
2.5°	2718.6	2739.7	2745.8	2766.9	2777.5	2822.8	2848.5	2863.6	2856.0	2872.6	2874.1
5°	2525.2	2513.2	2544.9	2567.5	2615.9	2694.4	2774.4	2836.4	2865.1	2892.3	2887.7
7.5°	2318.3	2312.3	2344.0	2395.4	2439.2	2534.3	2662.7	2815.2	2809.2	2875.6	2895.3
10°	2176.4	2182.4	2193.0	2244.3	2309.3	2405.9	2566.0	2708.0	2739.7	2880.2	2919.4
12.5°	2046.5	2057.0	2076.7	2129.5	2205.1	2304.7	2460.3	2626.4	2674.8	2854.5	2933.0
15°	2004.2	1980.0	2019.3	2058.6	2137.1	2226.2	2357.6	2564.5	2585.7	2824.3	2955.7
17.5°	1969.5	1954.3	1972.5	2004.2	2087.3	2159.8	2283.6	2498.1	2537.3	2812.2	2952.7
20°	1980.0	1966.4	1974.0	1998.1	2035.9	2103.9	2218.7	2434.6	2476.9	2756.3	2948.1
22.5°	2010.2	2020.8	2007.2	2013.3	2025.3	2060.1	2183.9	2389.3	2425.6	2745.8	2973.8
25°	2146.2	2128.0	2109.9	2102.4	2031.4	2046.5	2173.3	2386.3	2412.0	2708.0	2952.7
27.5°	2288.1	2273.0	2265.5	2221.7	2125.0	2079.7	2174.9	2344.0	2378.7	2692.9	2927.0
30°	2460.3	2479.9	2449.7	2396.9	2262.5	2150.7	2191.5	2322.9	2371.2	2635.5	2910.4
32.5°	2641.5	2652.1	2667.2	2627.9	2454.3	2257.9	2241.3	2342.5	2345.5	2635.5	2872.6
35°	2846.9	2831.8	2871.1	2874.1	2721.6	2448.2	2336.5	2356.1	2387.8	2623.4	2859.0
37.5°	3023.7	3049.3	3094.6	3167.1	3010.1	2717.1	2484.5	2419.5	2433.1	2679.3	2869.6
40°	3217.0	3242.6	3345.3	3417.8	3328.7	3019.1	2709.5	2567.5	2578.1	2762.4	2924.0
42.5°	3429.9	3479.8	3602.1	3729.0	3704.8	3402.7	2999.5	2785.0	2780.5	2969.3	3035.7
45°	3718.4	3784.9	3917.8	4064.3	4085.4	3842.2	3386.1	3109.7	3124.8	3239.6	3266.8
47.5°	4120.1	4117.1	4247.0	4410.1	4532.5	4298.4	3848.3	3546.2	3544.7	3667.0	3609.7
50°	4508.3	4509.8	4544.5	4733.3	5050.5	4931.2	4420.7	4126.2	4109.6	4170.0	4077.9
52.5°	4688.0	4666.9	4641.2	4869.3	5449.2	5728.6	5145.6	4783.2	4769.6	4733.3	4709.2
55°	4499.2	4506.8	4505.3	4742.4	5659.2	6569.9	6076.0	5506.6	5484.0	5370.7	5403.9
57.5°	3893.6	3869.4	3922.3	4292.3	5419.0	7143.8	7406.6	6418.8	6359.9	5983.9	5908.4
60°	2898.3	2905.8	2949.6	3386.1	4822.4	7264.6	8679.8	7489.7	7235.9	6415.8	6311.6
62.5°	2023.8	2008.7	2025.3	2270.0	3448.1	6781.3	9540.7	8791.5	8546.9	6906.7	6846.3
65°	1448.4	1428.8	1495.2	1644.7	2070.6	5184.9	9663.0	10525.4	10306.4	7690.5	7545.5
67.5°	1042.1	1039.1	1116.1	1388.0	1471.0	2985.9	8756.8	12096.1	11963.2	8620.9	7971.4
69°	862.4	863.9	937.9	1243.0	1404.6	2038.9	7535.0	12366.5	12342.3	9101.2	7891.4
70°	752.1	758.2	844.3	1156.9	1377.4	1676.5	6495.9	12100.6	12076.5	9194.8	7627.1
72.5°	463.7	468.2	581.5	927.3	1309.4	1368.3	3884.5	9900.1	9983.2	8765.9	6571.4
75°	222.0	223.5	305.1	670.6	1262.6	1297.4	2081.2	7305.4	7480.6	7077.3	5135.1
77.5°	117.8	117.8	146.5	356.4	1022.5	1220.3	1235.4	5153.2	5298.2	4475.1	2919.4
80°	58.9	60.4	89.1	185.8	634.3	1196.2	965.1	3073.5	3152.0	1826.0	909.2
82.5°	22.7	24.2	42.3	111.8	329.2	1010.4	847.3	1511.8	1492.2	427.4	222.0
85°	3.0	3.0	15.1	66.5	140.5	445.5	699.3	631.3	610.2	93.6	107.2
87.5°	0.0	0.0	3.0	19.6	42.3	129.9	270.3	173.7	193.3	25.7	52.9
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°	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8	2822.8
2.5°	2866.6	2834.9	2786.5	2739.7	2689.9	2629.5	2563.0	2538.8	2496.6	2493.5	2517.7
5°	2863.6	2812.2	2727.6	2627.9	2486.0	2378.7	2262.5	2177.9	2112.9	2070.6	2081.2
7.5°	2878.7	2816.7	2670.2	2455.8	2273.0	2060.1	1880.3	1756.5	1643.2	1587.3	1581.3
10°	2854.5	2771.4	2557.0	2256.4	1987.6	1690.0	1427.2	1261.1	1092.0	1030.0	1033.1
12.5°	2868.1	2751.8	2434.6	2051.0	1681.0	1294.3	980.2	753.6	595.1	543.7	537.7
15°	2877.2	2709.5	2316.8	1804.8	1341.2	882.0	567.9	427.4	377.6	368.5	367.0
17.5°	2842.4	2658.2	2150.7	1561.7	993.8	536.2	377.6	348.9	339.8	333.8	330.8
20°	2840.9	2627.9	2007.2	1312.5	663.0	365.5	326.2	315.7	302.1	297.5	297.5
22.5°	2815.2	2564.5	1835.0	1039.1	422.9	314.1	293.0	276.4	261.3	255.2	253.7
25°	2807.7	2490.5	1673.4	780.8	321.7	280.9	259.8	235.6	217.5	208.4	203.9
27.5°	2786.5	2427.1	1510.3	549.8	280.9	250.7	223.5	197.9	176.7	163.1	161.6
30°	2711.0	2360.6	1329.1	380.6	255.2	222.0	191.8	161.6	140.5	131.4	128.4
32.5°	2679.3	2298.7	1131.2	293.0	232.6	196.3	161.6	134.4	117.8	108.7	107.2
35°	2641.5	2208.1	939.4	255.2	211.4	170.7	135.9	113.3	99.7	92.1	92.1
37.5°	2646.1	2135.6	759.7	231.1	188.8	146.5	116.3	96.7	84.6	77.0	77.0
40°	2632.5	2078.2	590.5	209.9	167.6	125.4	98.2	81.6	71.0	63.4	61.9
42.5°	2694.4	2063.1	445.5	191.8	146.5	107.2	84.6	69.5	58.9	49.8	49.8
45°	2798.6	2087.3	347.4	175.2	125.4	92.1	72.5	57.4	46.8	40.8	39.3
47.5°	3076.5	2182.4	271.9	161.6	107.2	80.0	60.4	46.8	37.8	31.7	30.2
50°	3479.8	2395.4	231.1	142.0	90.6	68.0	49.8	36.2	30.2	24.2	22.7
52.5°	4053.7	2753.3	209.9	125.4	75.5	55.9	39.3	28.7	22.7	18.1	16.6
55°	4679.0	3200.4	190.3	105.7	63.4	45.3	31.7	22.7	16.6	12.1	10.6
57.5°	5166.8	3587.0	173.7	87.6	51.4	36.2	24.2	16.6	12.1	7.6	6.0
60°	5699.9	3858.9	152.5	69.5	42.3	27.2	18.1	12.1	9.1	4.5	4.5
62.5°	6249.7	4177.5	125.4	54.4	33.2	21.1	13.6	9.1	6.0	1.5	1.5
65°	7013.9	4426.7	96.7	42.3	25.7	15.1	10.6	7.6	3.0	0.0	0.0
67.5°	7229.9	4304.4	71.0	33.2	18.1	10.6	7.6	4.5	1.5	0.0	0.0
69°	7013.9	3877.0	61.9	28.7	15.1	9.1	6.0	3.0	1.5	0.0	0.0
70°	6619.7	3544.7	54.4	24.2	13.6	9.1	4.5	3.0	1.5	0.0	0.0
72.5°	5536.8	2718.6	42.3	18.1	10.6	7.6	4.5	3.0	0.0	0.0	0.0
75°	4061.2	1679.5	31.7	13.6	9.1	6.0	4.5	3.0	0.0	0.0	0.0
77.5°	2176.4	613.2	22.7	9.1	6.0	4.5	4.5	3.0	0.0	0.0	0.0
80°	596.6	181.2	16.6	6.0	4.5	3.0	3.0	1.5	0.0	0.0	0.0
82.5°	163.1	46.8	10.6	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	87.6	18.1	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	45.3	6.0	4.5	3.0	3.0	1.5	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)