

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: P484962

Luminaire Tested: **IFLD-M-SA4A-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484962
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

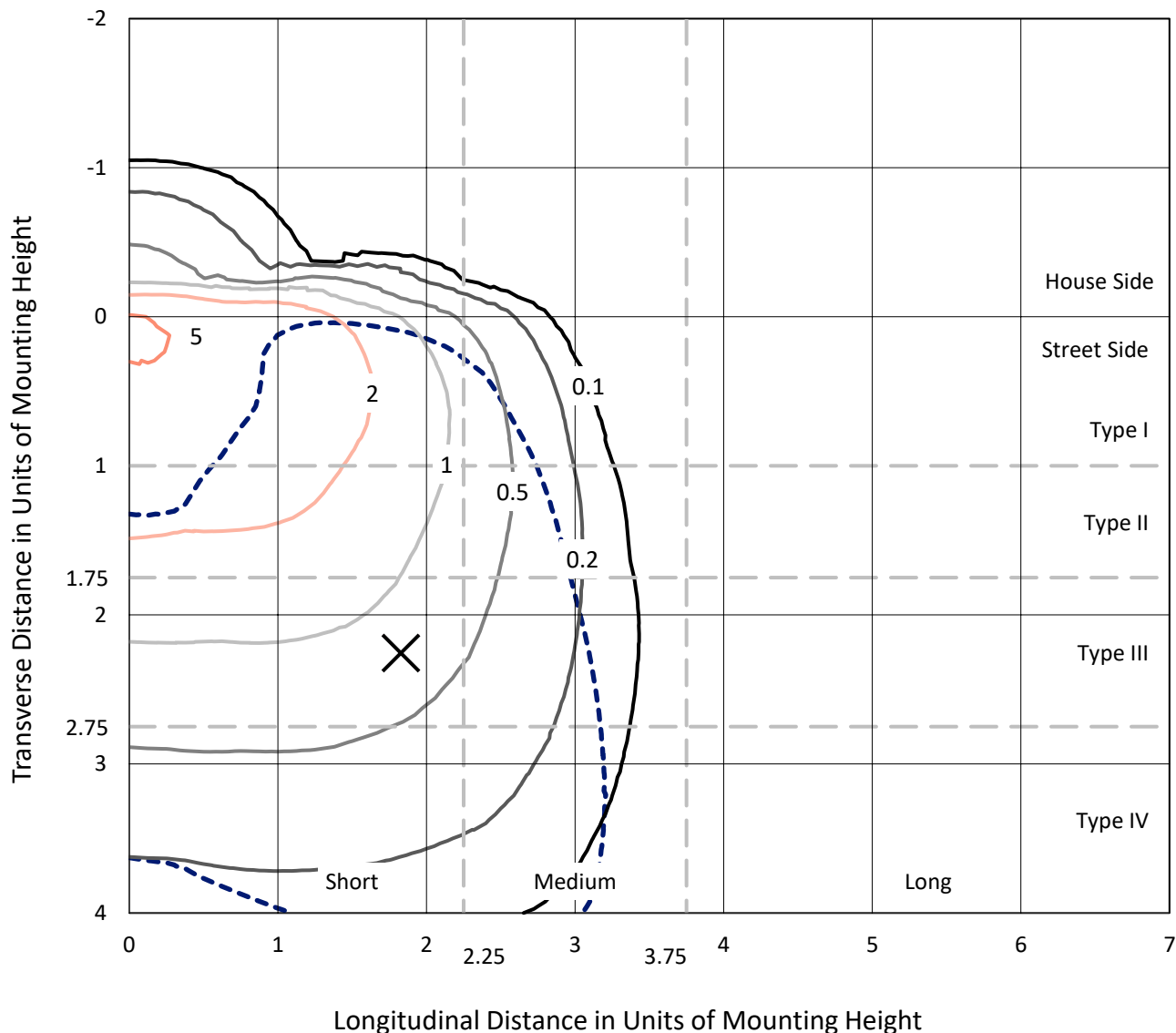
Lumens per Lamp: N/A
Luminaire Lumens: 12122.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

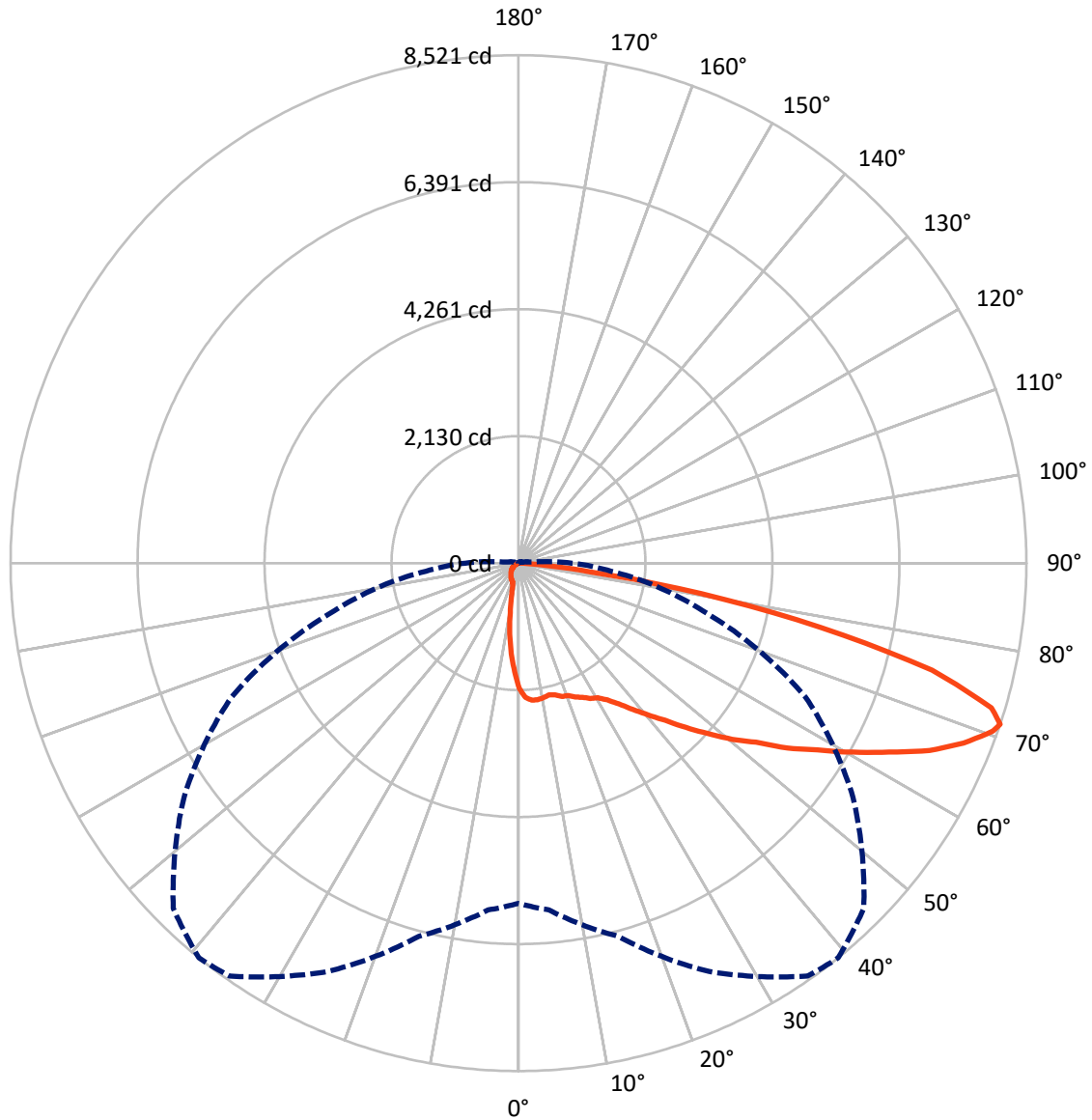
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.7	0.0	912.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11210.0	0.0	11210.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	12122.6	0.0	12122.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.5
10°-20°	434.2	3.6
20°-30°	697.1	5.8
30°-40°	1067.0	8.8
40°-50°	1712.8	14.1
50°-60°	2515.8	20.8
60°-70°	3168.5	26.1
70°-80°	2114.6	17.4
80°-90°	236.3	1.9
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°	12122.6	100.0
0°-180°	12122.6	100.0

Coefficient of Utilization



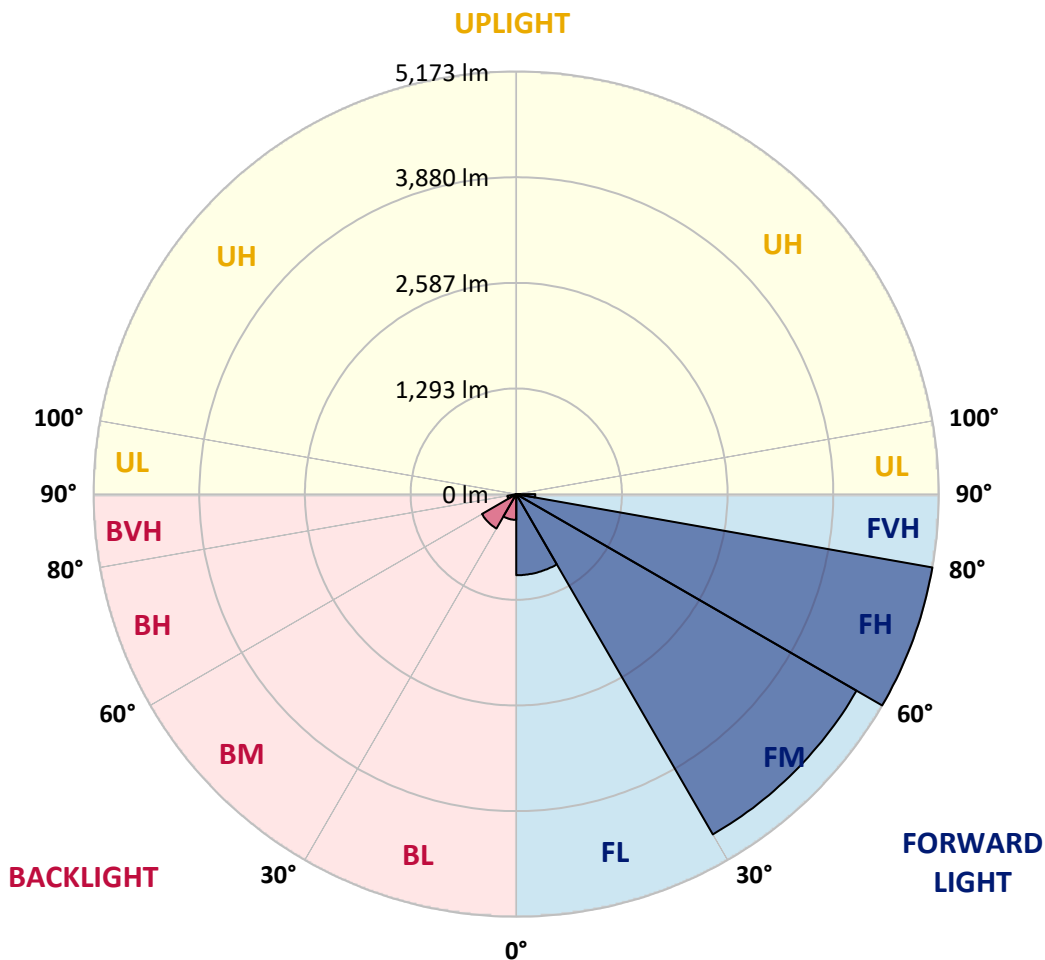
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.6	8.2			
FM (30°-60°)	4810.4	39.7			
FH (60°-80°)	5173.2	42.7			G3/7500
FVH (80°-90°)	233.7	1.9			G3/500
BL (0°-30°)	315.1	2.6	B1/500		
BM (30°-60°)	485.1	4.0	B1/1000		
BH (60°-80°)	109.9	0.9	B0/110		G0/110
BVH (80°-90°)	2.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0
2.5°	2273.8	2296.1	2273.8	2264.2	2254.7	2256.3	2230.9	2235.6	2205.4	2165.7	2133.9
5°	2345.3	2375.6	2351.7	2340.6	2339.0	2308.8	2296.1	2265.8	2229.3	2167.3	2129.1
7.5°	2339.0	2332.6	2343.8	2334.2	2313.5	2313.5	2299.2	2256.3	2219.7	2149.8	2084.6
10°	2291.3	2310.4	2300.8	2289.7	2294.5	2296.1	2269.0	2238.8	2227.7	2157.7	2051.2
12.5°	2286.5	2254.7	2289.7	2291.3	2270.6	2269.0	2265.8	2257.9	2222.9	2159.3	2059.1
15°	2270.6	2257.9	2292.9	2294.5	2299.2	2294.5	2299.2	2292.9	2257.9	2221.3	2094.1
17.5°	2283.3	2269.0	2318.3	2342.2	2331.0	2353.3	2345.3	2316.7	2286.5	2243.6	2127.5
20°	2286.5	2307.2	2361.2	2370.8	2405.8	2369.2	2367.6	2337.4	2318.3	2272.2	2148.2
22.5°	2345.3	2354.9	2421.7	2442.3	2443.9	2439.2	2399.4	2364.4	2356.5	2299.2	2152.9
25°	2434.4	2467.8	2498.0	2510.7	2515.5	2493.2	2451.9	2407.4	2388.3	2351.7	2202.2
27.5°	2591.8	2571.1	2598.2	2617.2	2563.2	2571.1	2518.7	2480.5	2453.5	2421.7	2259.5
30°	2731.7	2712.6	2714.2	2711.1	2664.9	2622.0	2607.7	2540.9	2507.5	2520.3	2348.5
32.5°	2857.3	2816.0	2851.0	2835.1	2749.2	2736.5	2725.4	2641.1	2647.5	2706.3	2482.1
35°	2973.4	2959.1	2987.7	2959.1	2901.9	2898.7	2887.6	2814.4	2849.4	2933.7	2711.1
37.5°	3080.0	3084.7	3119.7	3105.4	3110.2	3113.3	3107.0	3029.1	3129.2	3318.5	2978.2
40°	3178.5	3172.2	3258.0	3302.6	3312.1	3347.1	3347.1	3328.0	3482.2	3695.3	3348.7
42.5°	3283.5	3299.4	3410.7	3485.4	3576.1	3606.3	3647.6	3657.1	3895.7	4138.9	3727.1
45°	3455.2	3428.2	3569.7	3746.2	3825.7	3932.2	3995.8	4049.9	4337.7	4671.6	4105.5
47.5°	3673.0	3619.0	3743.0	3999.0	4183.5	4270.9	4385.4	4456.9	4738.4	5083.4	4463.3
50°	3914.7	3859.1	3919.5	4272.5	4487.2	4646.2	4792.5	4883.1	5223.4	5544.6	4724.1
52.5°	4188.2	4137.3	4146.9	4557.1	4873.5	4989.6	5182.0	5317.2	5655.9	5822.8	4816.3
55°	4479.2	4466.5	4436.3	4835.4	5212.2	5473.0	5589.1	5751.3	6099.5	5973.9	4916.5
57.5°	4771.8	4732.0	4775.0	5204.3	5756.0	5911.9	6072.5	6169.4	6345.9	6105.8	4878.3
60°	5046.9	5050.0	5110.5	5605.0	6218.7	6439.8	6584.5	6525.6	6598.8	6163.1	4790.9
62.5°	5279.0	5272.6	5425.3	6055.0	6830.9	6980.4	7088.5	6826.1	6716.4	6218.7	4638.2
65°	5487.3	5558.9	5799.0	6590.8	7406.5	7578.2	7513.0	7110.8	6830.9	6055.0	4208.9
67.5°	5644.7	5751.3	6167.9	7094.9	7934.4	8055.3	7964.6	7327.0	6695.8	5412.6	3428.2
70°	5736.9	5845.1	6431.8	7514.6	8355.8	8443.2	8230.2	7160.1	5907.1	3919.5	2138.6
71°	5708.3	5840.3	6482.7	7559.2	8456.0	8521.1	8190.4	6851.6	5312.4	3281.9	1559.9
72.5°	5449.1	5573.2	6271.2	7527.4	8335.1	8295.4	7880.4	6110.6	4181.9	2092.5	806.2
75°	4003.8	4137.3	5382.4	6511.3	7439.9	7166.4	6377.7	4288.4	2181.6	640.8	235.3
77.5°	1993.9	2016.2	3340.7	4727.3	5457.1	5185.2	4274.1	2391.5	815.7	189.2	117.7
80°	919.1	925.4	1253.0	2448.7	3299.4	3105.4	2394.6	1179.8	368.9	100.2	92.2
82.5°	626.5	636.0	755.3	1014.5	1432.6	1208.4	969.9	755.3	211.5	60.4	90.6
85°	114.5	104.9	423.0	537.4	553.3	375.3	335.5	653.5	79.5	35.0	79.5
87.5°	0.0	1.6	58.8	219.4	197.2	87.5	114.5	159.0	8.0	11.1	14.3
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°	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0	2110.0
2.5°	2106.8	2089.3	2030.5	1965.3	1906.5	1860.4	1801.5	1774.5	1731.6	1707.7	1706.1
5°	2076.6	2028.9	1927.2	1817.4	1695.0	1593.2	1480.3	1416.7	1343.6	1321.3	1316.6
7.5°	2025.7	1957.4	1807.9	1653.7	1466.0	1286.4	1148.0	1000.1	909.5	871.4	857.0
10°	1993.9	1911.3	1707.7	1477.2	1214.8	962.0	768.0	610.6	527.9	488.1	478.6
12.5°	1993.9	1904.9	1626.6	1308.6	960.4	658.3	475.4	384.8	357.8	348.2	348.2
15°	1989.2	1892.2	1548.7	1135.3	710.8	442.0	354.6	335.5	332.3	330.7	329.1
17.5°	2013.0	1869.9	1469.2	949.3	502.5	348.2	326.0	322.8	319.6	319.6	316.4
20°	2030.5	1857.2	1373.8	752.1	375.3	322.8	313.2	308.5	306.9	305.3	308.5
22.5°	2016.2	1838.1	1256.1	562.9	327.6	306.9	300.5	295.8	292.6	292.6	294.2
25°	2043.2	1820.6	1138.5	424.5	306.9	292.6	286.2	283.0	281.4	279.9	276.7
27.5°	2079.8	1828.6	998.6	341.9	289.4	278.3	271.9	268.7	267.1	264.0	267.1
30°	2124.3	1827.0	844.3	298.9	273.5	262.4	256.0	254.4	251.2	249.6	251.2
32.5°	2200.6	1868.3	685.3	276.7	256.0	246.5	240.1	238.5	236.9	235.3	233.7
35°	2364.4	1919.2	535.9	259.2	240.1	229.0	224.2	221.0	219.4	217.8	216.2
37.5°	2566.4	2032.1	408.6	243.3	224.2	213.1	208.3	206.7	200.3	198.8	197.2
40°	2819.2	2152.9	314.8	225.8	209.9	198.8	194.0	189.2	181.3	178.1	174.9
42.5°	3134.0	2270.6	259.2	209.9	194.0	186.0	178.1	170.1	163.8	157.4	154.2
45°	3448.8	2407.4	227.4	195.6	181.3	171.7	165.4	154.2	143.1	133.6	132.0
47.5°	3711.2	2456.6	208.3	179.7	168.5	160.6	151.1	136.7	120.8	111.3	109.7
50°	3906.8	2428.0	189.2	163.8	154.2	146.3	133.6	116.1	100.2	90.6	87.5
52.5°	3944.9	2302.4	171.7	151.1	139.9	130.4	116.1	97.0	79.5	70.0	68.4
55°	3917.9	2094.1	157.4	139.9	127.2	112.9	97.0	77.9	62.0	52.5	50.9
57.5°	3862.3	1847.7	141.5	125.6	111.3	97.0	79.5	63.6	46.1	36.6	36.6
60°	3673.0	1512.2	125.6	109.7	95.4	82.7	65.2	46.1	31.8	23.9	22.3
62.5°	3409.1	1162.3	109.7	93.8	82.7	68.4	50.9	33.4	19.1	12.7	12.7
65°	2927.3	814.1	92.2	77.9	68.4	55.7	38.2	20.7	11.1	4.8	4.8
67.5°	2224.5	504.1	76.3	65.2	58.8	44.5	27.0	12.7	4.8	1.6	0.0
70°	1276.8	262.4	60.4	52.5	46.1	33.4	19.1	6.4	3.2	0.0	0.0
71°	892.0	194.0	54.1	46.1	41.3	30.2	15.9	4.8	1.6	0.0	0.0
72.5°	446.8	128.8	46.1	38.2	33.4	23.9	12.7	4.8	1.6	0.0	0.0
75°	159.0	82.7	31.8	25.4	23.9	17.5	8.0	3.2	1.6	0.0	0.0
77.5°	109.7	66.8	22.3	15.9	15.9	11.1	4.8	1.6	1.6	0.0	0.0
80°	100.2	36.6	14.3	9.5	8.0	6.4	3.2	1.6	0.0	0.0	0.0
82.5°	100.2	27.0	8.0	6.4	4.8	3.2	1.6	0.0	0.0	0.0	0.0
85°	70.0	14.3	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	4.8	3.2	1.6	1.6	0.0	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)