

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: P484826

Luminaire Tested: **IFLD-S-SA3B-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484826
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

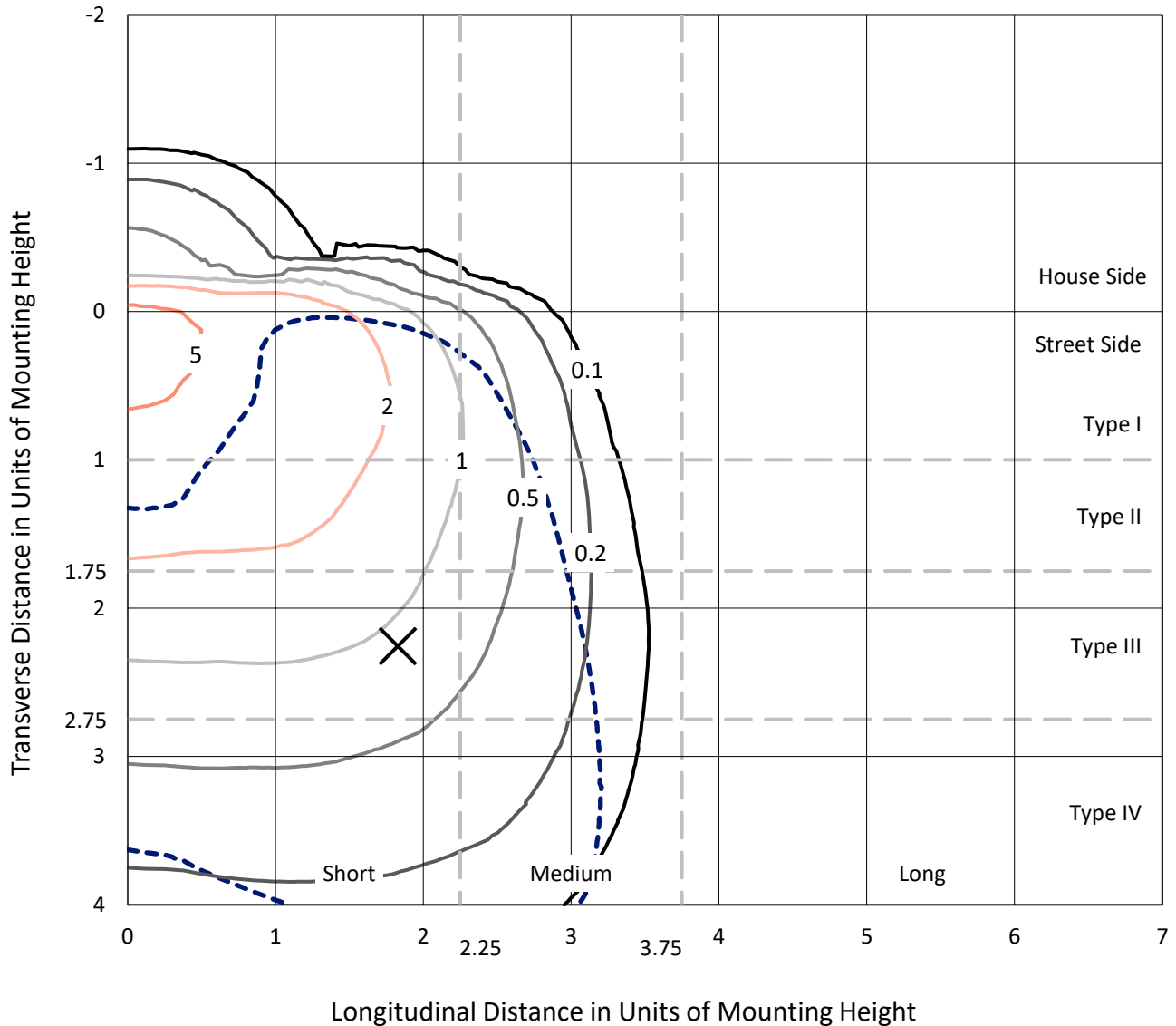
Lumens per Lamp: N/A
Luminaire Lumens: 14379 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
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

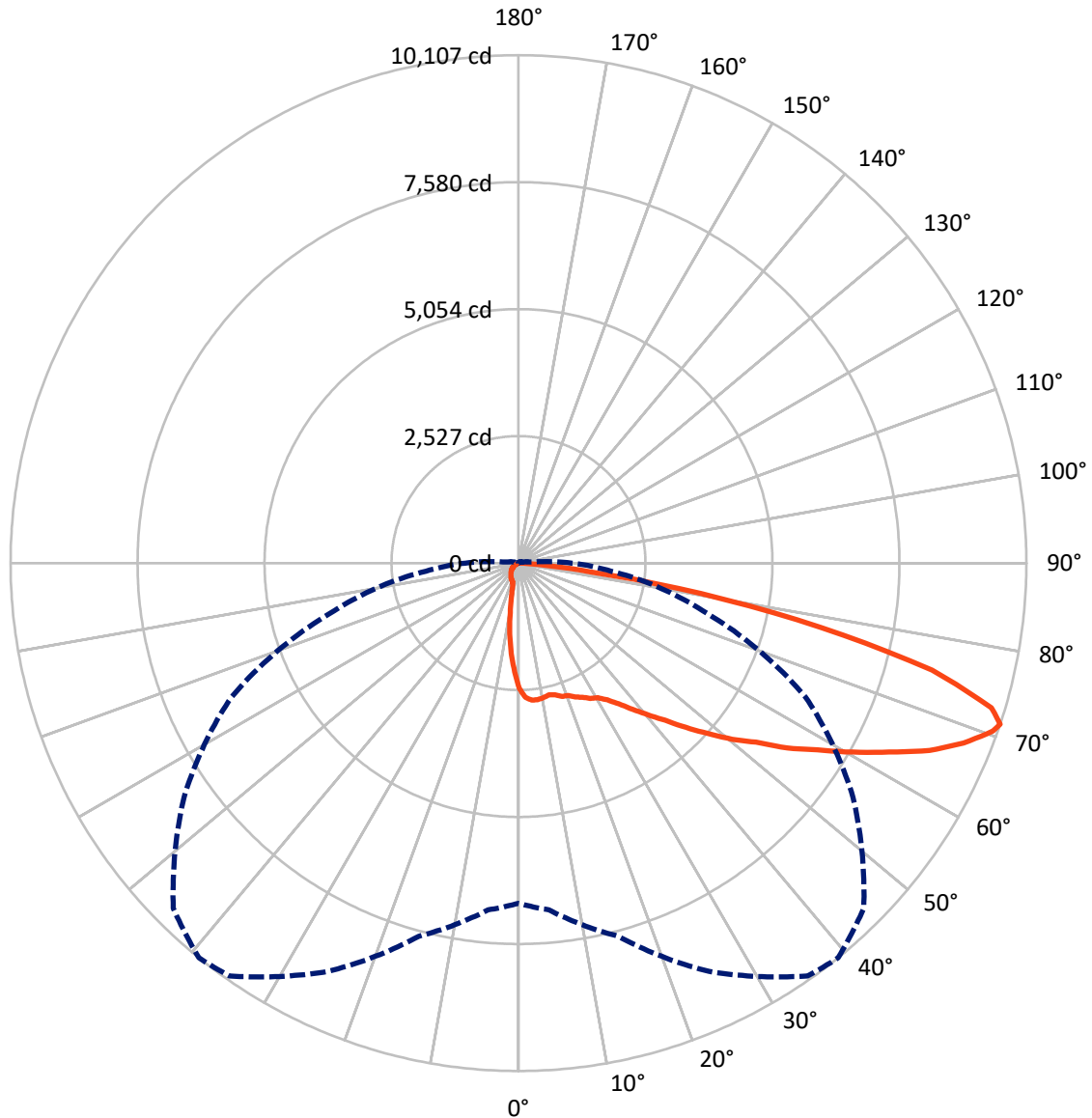
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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	1082.5	0.0	1082.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	13296.5	0.0	13296.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	14379.0	0.0	14379.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.5
10°-20°	515.0	3.6
20°-30°	826.8	5.7
30°-40°	1265.6	8.8
40°-50°	2031.6	14.1
50°-60°	2984.0	20.8
60°-70°	3758.3	26.1
70°-80°	2508.2	17.4
80°-90°	280.3	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°	14379.0	100.0
0°-180°	14379.0	100.0



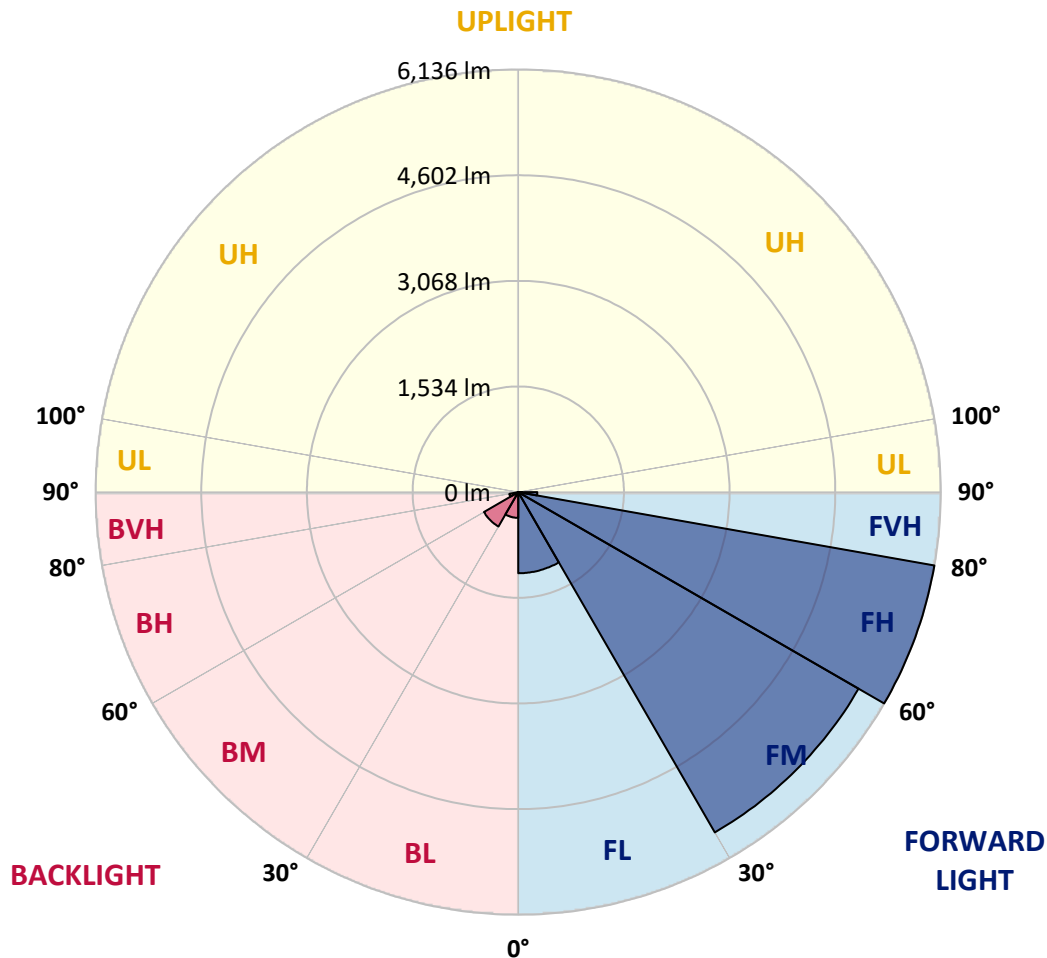
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.3	8.2			
FM (30°-60°)	5705.8	39.7			
FH (60°-80°)	6136.1	42.7			G3/7500
FVH (80°-90°)	277.2	1.9			G3/500
BL (0°-30°)	373.7	2.6	B1/500		
BM (30°-60°)	575.4	4.0	B1/1000		
BH (60°-80°)	130.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8
2.5°	2697.0	2723.4	2697.0	2685.7	2674.4	2676.3	2646.1	2651.8	2615.9	2568.8	2531.0
5°	2781.9	2817.7	2789.4	2776.2	2774.3	2738.5	2723.4	2687.6	2644.2	2570.7	2525.4
7.5°	2774.3	2766.8	2780.0	2768.7	2744.2	2744.2	2727.2	2676.3	2632.9	2549.9	2472.6
10°	2717.8	2740.4	2729.1	2715.9	2721.5	2723.4	2691.4	2655.5	2642.3	2559.3	2433.0
12.5°	2712.1	2674.4	2715.9	2717.8	2693.2	2691.4	2687.6	2678.2	2636.7	2561.2	2442.4
15°	2693.2	2678.2	2719.7	2721.5	2727.2	2721.5	2727.2	2719.7	2678.2	2634.8	2483.9
17.5°	2708.3	2691.4	2749.8	2778.1	2764.9	2791.3	2781.9	2747.9	2712.1	2661.2	2523.5
20°	2712.1	2736.6	2800.8	2812.1	2853.6	2810.2	2808.3	2772.5	2749.8	2695.1	2548.0
22.5°	2781.9	2793.2	2872.4	2896.9	2898.8	2893.2	2846.0	2804.5	2795.1	2727.2	2553.7
25°	2887.5	2927.1	2962.9	2978.0	2983.7	2957.3	2908.3	2855.4	2832.8	2789.4	2612.1
27.5°	3074.2	3049.7	3081.8	3104.4	3040.3	3049.7	2987.5	2942.2	2910.1	2872.4	2680.0
30°	3240.2	3217.6	3219.4	3215.7	3161.0	3110.1	3093.1	3013.9	2974.3	2989.4	2785.7
32.5°	3389.2	3340.2	3381.6	3362.8	3260.9	3245.9	3232.7	3132.7	3140.2	3210.0	2944.1
35°	3526.9	3509.9	3543.8	3509.9	3442.0	3438.2	3425.0	3338.3	3379.8	3479.7	3215.7
37.5°	3653.2	3658.9	3700.4	3683.4	3689.1	3692.8	3685.3	3592.9	3711.7	3936.1	3532.5
40°	3770.2	3762.6	3864.5	3917.3	3928.6	3970.1	3970.1	3947.5	4130.4	4383.1	3972.0
42.5°	3894.6	3913.5	4045.5	4134.2	4241.7	4277.5	4326.5	4337.9	4620.8	4909.3	4420.8
45°	4098.3	4066.3	4234.1	4443.5	4537.8	4664.1	4739.6	4803.7	5145.1	5541.1	4869.7
47.5°	4356.7	4292.6	4439.7	4743.4	4962.1	5065.9	5201.7	5286.5	5620.4	6029.6	5294.1
50°	4643.4	4577.4	4649.1	5067.8	5322.4	5511.0	5684.5	5792.0	6195.6	6576.6	5603.4
52.5°	4967.8	4907.4	4918.8	5405.4	5780.7	5918.4	6146.6	6306.9	6708.6	6906.6	5712.8
55°	5312.9	5297.9	5262.0	5735.4	6182.4	6491.7	6629.4	6821.8	7234.8	7085.8	5831.6
57.5°	5660.0	5612.8	5663.7	6173.0	6827.4	7012.3	7202.7	7317.8	7527.1	7242.3	5786.3
60°	5986.3	5990.0	6061.7	6648.2	7376.3	7638.4	7810.0	7740.3	7827.0	7310.2	5682.6
62.5°	6261.6	6254.1	6435.1	7182.0	8102.4	8279.7	8407.9	8096.7	7966.6	7376.3	5501.5
65°	6508.7	6593.6	6878.3	7817.6	8785.1	8988.8	8911.5	8434.3	8102.4	7182.0	4992.3
67.5°	6695.4	6821.8	7315.9	8415.5	9411.3	9554.6	9447.1	8690.8	7942.1	6420.0	4066.3
70°	6804.8	6933.0	7629.0	8913.4	9911.1	10014.8	9762.1	8492.8	7006.6	4649.1	2536.7
71°	6770.8	6927.4	7689.3	8966.2	10029.9	10107.2	9714.9	8126.9	6301.2	3892.8	1850.2
72.5°	6463.4	6610.5	7438.5	8928.5	9886.6	9839.4	9347.2	7248.0	4960.3	2482.0	956.2
75°	4749.0	4907.4	6384.2	7723.3	8824.7	8500.3	7564.9	5086.6	2587.6	760.1	279.1
77.5°	2365.1	2391.5	3962.5	5607.2	6472.8	6150.3	5069.6	2836.6	967.5	224.4	139.6
80°	1090.1	1097.7	1486.2	2904.5	3913.5	3683.4	2840.4	1399.4	437.6	118.8	109.4
82.5°	743.1	754.4	895.9	1203.3	1699.3	1433.4	1150.5	895.9	250.8	71.7	107.5
85°	135.8	124.5	501.7	637.5	656.3	445.1	398.0	775.2	94.3	41.5	94.3
87.5°	0.0	1.9	69.8	260.3	233.9	103.7	135.8	188.6	9.4	13.2	17.0
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°	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8	2502.8
2.5°	2499.0	2478.2	2408.5	2331.1	2261.3	2206.7	2136.9	2104.8	2053.9	2025.6	2023.7
5°	2463.2	2406.6	2285.9	2155.7	2010.5	1889.8	1755.9	1680.5	1593.7	1567.3	1561.6
7.5°	2402.8	2321.7	2144.4	1961.5	1738.9	1525.8	1361.7	1186.3	1078.8	1033.5	1016.6
10°	2365.1	2267.0	2025.6	1752.1	1440.9	1141.0	911.0	724.2	626.2	579.0	567.7
12.5°	2365.1	2259.5	1929.4	1552.2	1139.2	780.8	563.9	456.4	424.4	413.0	413.0
15°	2359.4	2244.4	1837.0	1346.6	843.1	524.3	420.6	398.0	394.2	392.3	390.4
17.5°	2387.7	2218.0	1742.7	1126.0	596.0	413.0	386.6	382.9	379.1	379.1	375.3
20°	2408.5	2202.9	1629.5	892.1	445.1	382.9	371.5	365.9	364.0	362.1	365.9
22.5°	2391.5	2180.2	1490.0	667.7	388.5	364.0	356.5	350.8	347.0	347.0	348.9
25°	2423.5	2159.5	1350.4	503.6	364.0	347.0	339.5	335.7	333.8	331.9	328.2
27.5°	2466.9	2168.9	1184.4	405.5	343.3	330.1	322.5	318.7	316.9	313.1	316.9
30°	2519.7	2167.0	1001.5	354.6	324.4	311.2	303.7	301.8	298.0	296.1	298.0
32.5°	2610.3	2216.1	812.9	328.2	303.7	292.3	284.8	282.9	281.0	279.1	277.2
35°	2804.5	2276.4	635.6	307.4	284.8	271.6	265.9	262.2	260.3	258.4	256.5
37.5°	3044.0	2410.3	484.7	288.6	265.9	252.7	247.1	245.2	237.6	235.8	233.9
40°	3343.9	2553.7	373.4	267.8	249.0	235.8	230.1	224.4	215.0	211.2	207.5
42.5°	3717.4	2693.2	307.4	249.0	230.1	220.7	211.2	201.8	194.3	186.7	182.9
45°	4090.8	2855.4	269.7	232.0	215.0	203.7	196.1	182.9	169.7	158.4	156.5
47.5°	4402.0	2913.9	247.1	213.1	199.9	190.5	179.2	162.2	143.3	132.0	130.1
50°	4634.0	2880.0	224.4	194.3	182.9	173.5	158.4	137.7	118.8	107.5	103.7
52.5°	4679.2	2731.0	203.7	179.2	166.0	154.7	137.7	115.0	94.3	83.0	81.1
55°	4647.2	2483.9	186.7	166.0	150.9	133.9	115.0	92.4	73.6	62.2	60.4
57.5°	4581.2	2191.6	167.9	149.0	132.0	115.0	94.3	75.4	54.7	43.4	43.4
60°	4356.7	1793.6	149.0	130.1	113.2	98.1	77.3	54.7	37.7	28.3	26.4
62.5°	4043.6	1378.7	130.1	111.3	98.1	81.1	60.4	39.6	22.6	15.1	15.1
65°	3472.2	965.6	109.4	92.4	81.1	66.0	45.3	24.5	13.2	5.7	5.7
67.5°	2638.6	597.9	90.5	77.3	69.8	52.8	32.1	15.1	5.7	1.9	0.0
70°	1514.5	311.2	71.7	62.2	54.7	39.6	22.6	7.5	3.8	0.0	0.0
71°	1058.1	230.1	64.1	54.7	49.0	35.8	18.9	5.7	1.9	0.0	0.0
72.5°	530.0	152.8	54.7	45.3	39.6	28.3	15.1	5.7	1.9	0.0	0.0
75°	188.6	98.1	37.7	30.2	28.3	20.7	9.4	3.8	1.9	0.0	0.0
77.5°	130.1	79.2	26.4	18.9	18.9	13.2	5.7	1.9	1.9	0.0	0.0
80°	118.8	43.4	17.0	11.3	9.4	7.5	3.8	1.9	0.0	0.0	0.0
82.5°	118.8	32.1	9.4	7.5	5.7	3.8	1.9	0.0	0.0	0.0	0.0
85°	83.0	17.0	5.7	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	5.7	3.8	1.9	1.9	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)