

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: P484651

Luminaire Tested: **IFLD-M-SA4B-722-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484651
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

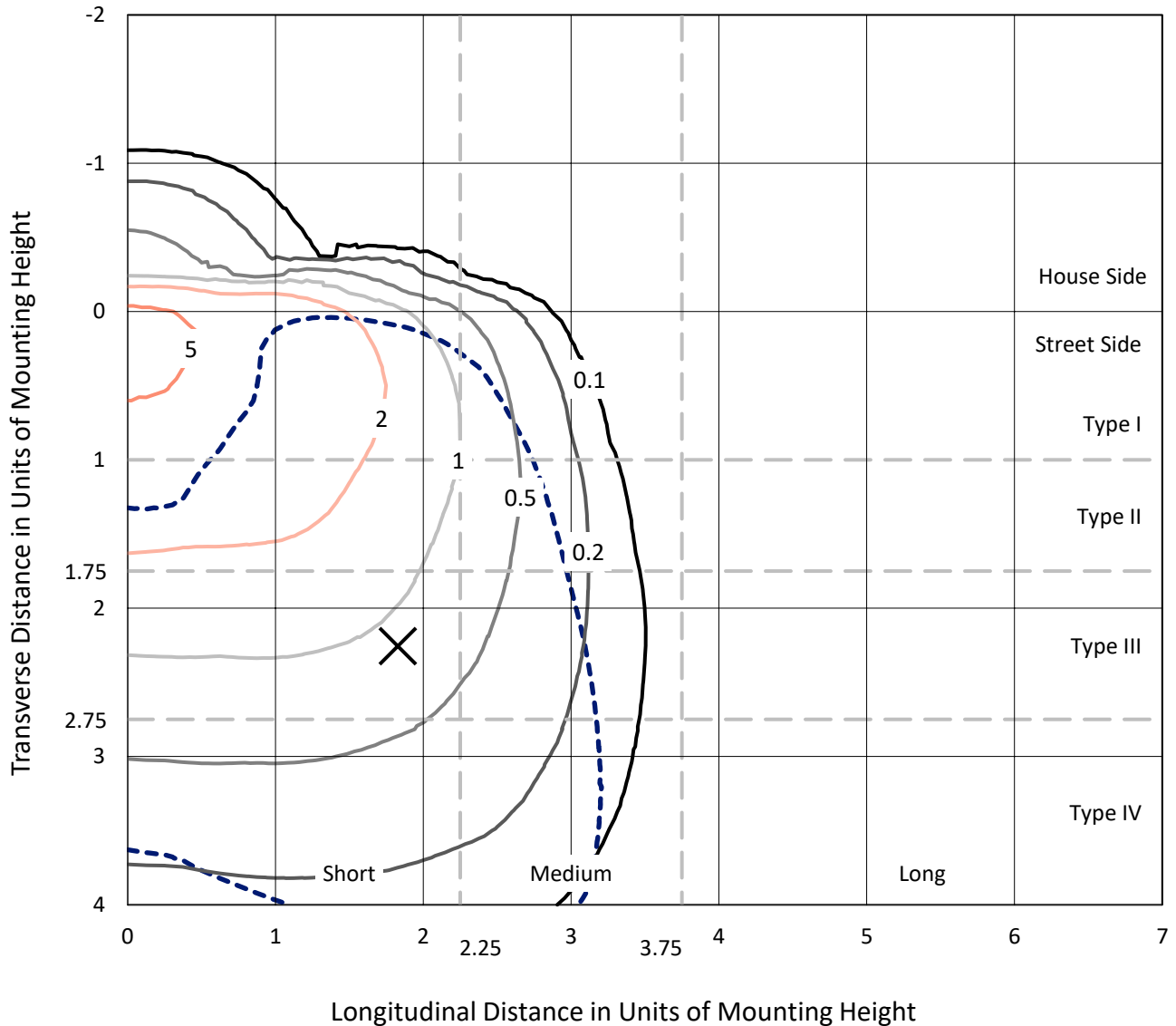
Lumens per Lamp: N/A
Luminaire Lumens: 13898.2 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
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

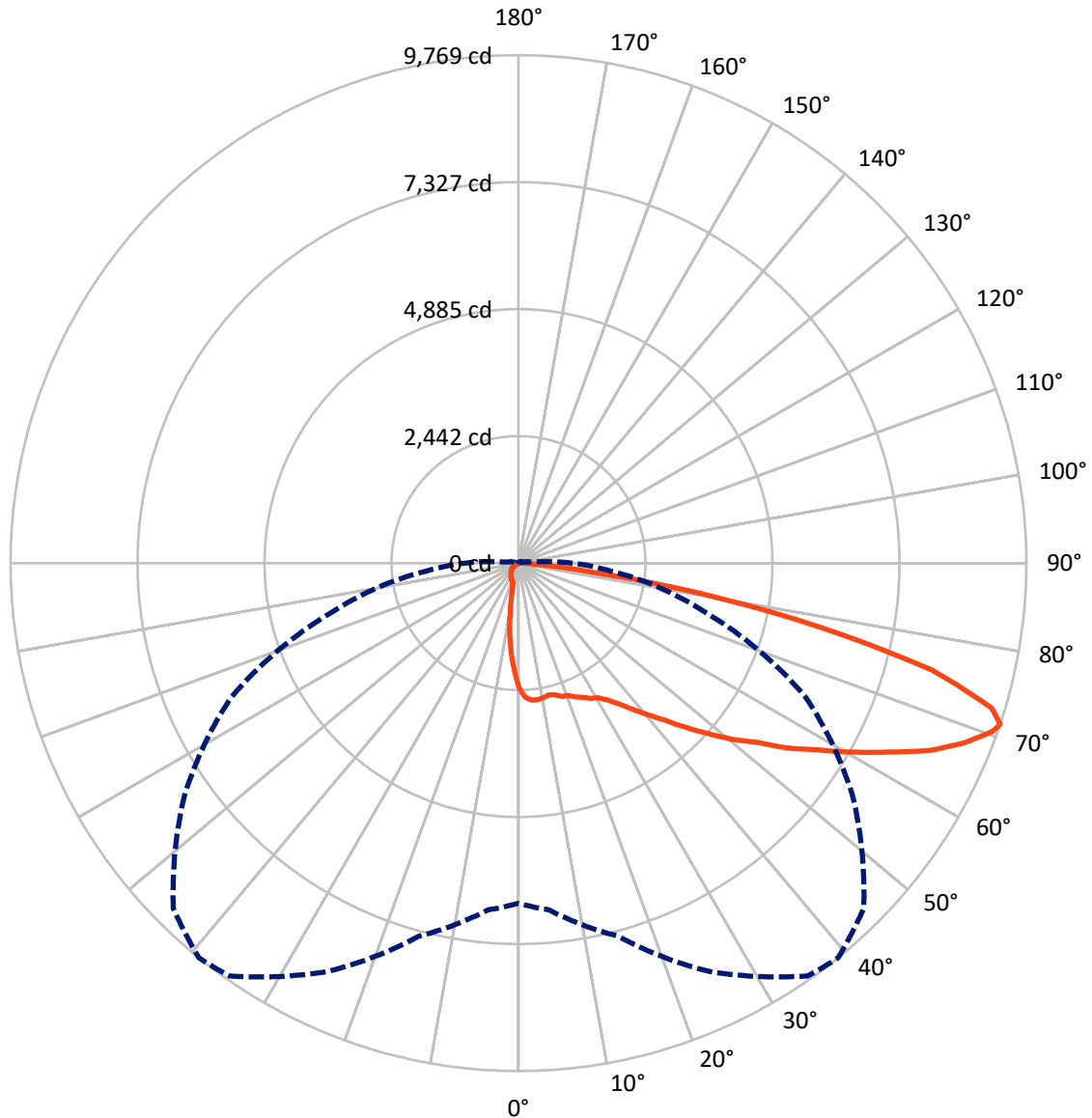
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	1046.3	0.0	1046.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12851.9	0.0	12851.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	13898.2	0.0	13898.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.5
10°-20°	497.8	3.6
20°-30°	799.1	5.7
30°-40°	1223.3	8.8
40°-50°	1963.6	14.1
50°-60°	2884.2	20.8
60°-70°	3632.6	26.1
70°-80°	2424.3	17.4
80°-90°	270.9	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°	13898.2	100.0
0°-180°	13898.2	100.0

Coefficient of Utilization



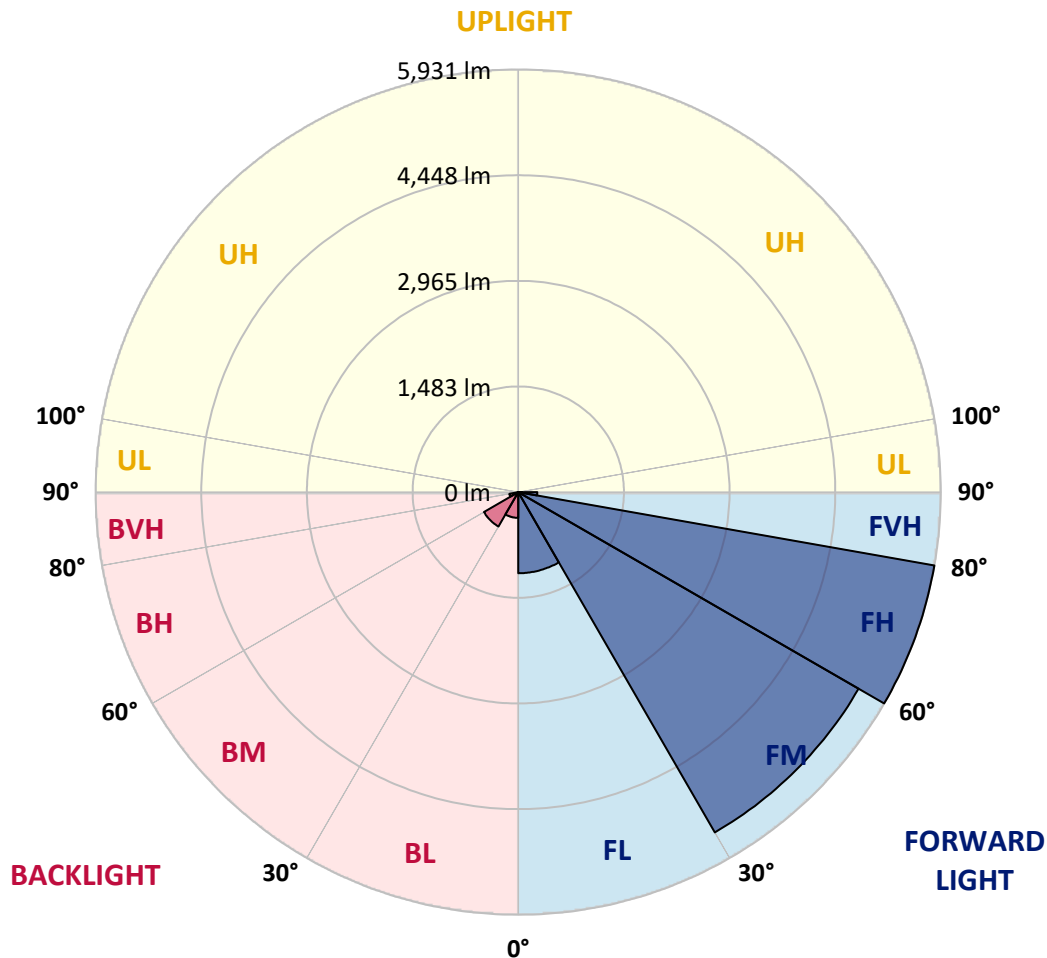
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.0	8.2			
FM (30°-60°)	5515.0	39.7			
FH (60°-80°)	5931.0	42.7			G3/7500
FVH (80°-90°)	267.9	1.9			G3/500
BL (0°-30°)	361.2	2.6	B1/500		
BM (30°-60°)	556.2	4.0	B1/1000		
BH (60°-80°)	125.9	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1
2.5°	2606.8	2632.4	2606.8	2595.9	2585.0	2586.8	2557.6	2563.1	2528.5	2482.9	2446.4
5°	2688.9	2723.5	2696.2	2683.4	2681.6	2646.9	2632.4	2597.7	2555.8	2484.7	2440.9
7.5°	2681.6	2674.3	2687.0	2676.1	2652.4	2652.4	2636.0	2586.8	2544.9	2464.6	2389.9
10°	2626.9	2648.8	2637.8	2625.1	2630.5	2632.4	2601.4	2566.7	2554.0	2473.8	2351.6
12.5°	2621.4	2585.0	2625.1	2626.9	2603.2	2601.4	2597.7	2588.6	2548.5	2475.6	2360.7
15°	2603.2	2588.6	2628.7	2630.5	2636.0	2630.5	2636.0	2628.7	2588.6	2546.7	2400.8
17.5°	2617.8	2601.4	2657.9	2685.2	2672.5	2698.0	2688.9	2656.1	2621.4	2572.2	2439.1
20°	2621.4	2645.1	2707.1	2718.0	2758.1	2716.2	2714.4	2679.8	2657.9	2605.0	2462.8
22.5°	2688.9	2699.8	2776.4	2800.1	2801.9	2796.4	2750.9	2710.7	2701.6	2636.0	2468.3
25°	2791.0	2829.2	2863.9	2878.5	2883.9	2858.4	2811.0	2760.0	2738.1	2696.2	2524.8
27.5°	2971.4	2947.7	2978.7	3000.6	2938.6	2947.7	2887.6	2843.8	2812.8	2776.4	2590.4
30°	3131.9	3110.0	3111.8	3108.2	3055.3	3006.1	2989.7	2913.1	2874.8	2889.4	2692.5
32.5°	3275.9	3228.5	3268.6	3250.3	3151.9	3137.3	3124.6	3027.9	3035.2	3102.7	2845.6
35°	3408.9	3392.5	3425.3	3392.5	3326.9	3323.3	3310.5	3226.6	3266.8	3363.4	3108.2
37.5°	3531.1	3536.6	3576.7	3560.2	3565.7	3569.4	3562.1	3472.7	3587.6	3804.5	3414.4
40°	3644.1	3636.8	3735.3	3786.3	3797.2	3837.3	3837.3	3815.5	3992.3	4236.6	3839.2
42.5°	3764.4	3782.7	3910.3	3995.9	4099.8	4134.5	4181.9	4192.8	4466.3	4745.2	4273.0
45°	3961.3	3930.3	4092.6	4294.9	4386.1	4508.2	4581.1	4643.1	4973.0	5355.9	4706.9
47.5°	4211.0	4149.1	4291.3	4584.8	4796.2	4896.5	5027.7	5109.8	5432.4	5828.0	5117.1
50°	4488.1	4424.3	4493.6	4898.3	5144.4	5326.7	5494.4	5598.3	5988.4	6356.7	5416.0
52.5°	4801.7	4743.4	4754.3	5224.6	5587.4	5720.5	5941.0	6096.0	6484.3	6675.7	5521.8
55°	5135.3	5120.7	5086.1	5543.6	5975.7	6274.6	6407.7	6593.7	6992.9	6848.9	5636.6
57.5°	5470.7	5425.1	5474.4	5966.6	6599.1	6777.8	6961.9	7073.1	7275.4	7000.2	5592.9
60°	5786.1	5789.7	5859.0	6425.9	7129.6	7383.0	7548.9	7481.4	7565.3	7065.8	5492.6
62.5°	6052.2	6044.9	6220.0	6941.8	7831.5	8002.8	8126.8	7826.0	7700.2	7129.6	5317.6
65°	6291.0	6373.1	6648.3	7556.2	8491.4	8688.2	8613.5	8152.3	7831.5	6941.8	4825.4
67.5°	6471.5	6593.7	7071.3	8134.1	9096.6	9235.1	9131.2	8400.2	7676.5	6205.4	3930.3
70°	6577.3	6701.2	7373.9	8615.3	9579.7	9679.9	9435.7	8208.8	6772.3	4493.6	2451.9
71°	6544.4	6695.7	7432.2	8666.4	9694.5	9769.3	9390.1	7855.2	6090.5	3762.6	1788.3
72.5°	6247.3	6389.5	7189.8	8629.9	9556.0	9510.4	9034.6	7005.7	4794.4	2399.0	924.2
75°	4590.2	4743.4	6170.7	7465.0	8529.6	8216.1	7311.9	4916.5	2501.1	734.7	269.8
77.5°	2286.0	2311.5	3830.0	5419.7	6256.4	5944.7	4900.1	2741.7	935.2	216.9	134.9
80°	1053.7	1061.0	1436.5	2807.4	3782.7	3560.2	2745.4	1352.6	422.9	114.8	105.7
82.5°	718.2	729.2	865.9	1163.1	1642.5	1385.5	1112.0	865.9	242.5	69.3	103.9
85°	131.3	120.3	484.9	616.2	634.4	430.2	384.6	749.2	91.1	40.1	91.1
87.5°	0.0	1.8	67.4	251.6	226.0	100.3	131.3	182.3	9.1	12.8	16.4
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°	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1	2419.1
2.5°	2415.4	2395.4	2327.9	2253.2	2185.7	2132.9	2065.4	2034.4	1985.2	1957.9	1956.0
5°	2380.8	2326.1	2209.4	2083.6	1943.3	1826.6	1697.2	1624.3	1540.4	1514.9	1509.4
7.5°	2322.5	2244.1	2072.7	1895.9	1680.8	1474.8	1316.2	1146.6	1042.7	999.0	982.6
10°	2286.0	2191.2	1957.9	1693.5	1392.7	1102.9	880.5	700.0	605.2	559.6	548.7
12.5°	2286.0	2183.9	1864.9	1500.3	1101.1	754.7	545.1	441.2	410.2	399.2	399.2
15°	2280.5	2169.3	1775.6	1301.6	814.9	506.8	406.5	384.6	381.0	379.2	377.4
17.5°	2307.9	2143.8	1684.4	1088.3	576.1	399.2	373.7	370.1	366.4	366.4	362.8
20°	2327.9	2129.2	1575.0	862.3	430.2	370.1	359.1	353.7	351.8	350.0	353.7
22.5°	2311.5	2107.3	1440.1	645.3	375.5	351.8	344.5	339.1	335.4	335.4	337.2
25°	2342.5	2087.3	1305.2	486.7	351.8	335.4	328.1	324.5	322.7	320.8	317.2
27.5°	2384.4	2096.4	1144.8	391.9	331.8	319.0	311.7	308.1	306.3	302.6	306.3
30°	2435.5	2094.6	968.0	342.7	313.5	300.8	293.5	291.7	288.0	286.2	288.0
32.5°	2523.0	2142.0	785.7	317.2	293.5	282.6	275.3	273.4	271.6	269.8	268.0
35°	2710.7	2200.3	614.3	297.1	275.3	262.5	257.0	253.4	251.6	249.7	247.9
37.5°	2942.3	2329.7	468.5	278.9	257.0	244.3	238.8	237.0	229.7	227.9	226.0
40°	3232.1	2468.3	360.9	258.9	240.6	227.9	222.4	216.9	207.8	204.2	200.5
42.5°	3593.1	2603.2	297.1	240.6	222.4	213.3	204.2	195.1	187.8	180.5	176.8
45°	3954.0	2760.0	260.7	224.2	207.8	196.9	189.6	176.8	164.1	153.1	151.3
47.5°	4254.8	2816.5	238.8	206.0	193.2	184.1	173.2	156.8	138.5	127.6	125.8
50°	4479.0	2783.7	216.9	187.8	176.8	167.7	153.1	133.1	114.8	103.9	100.3
52.5°	4522.8	2639.7	196.9	173.2	160.4	149.5	133.1	111.2	91.1	80.2	78.4
55°	4491.8	2400.8	180.5	160.4	145.8	129.4	111.2	89.3	71.1	60.2	58.3
57.5°	4428.0	2118.3	162.2	144.0	127.6	111.2	91.1	72.9	52.9	41.9	41.9
60°	4211.0	1733.6	144.0	125.8	109.4	94.8	74.7	52.9	36.5	27.3	25.5
62.5°	3908.4	1332.6	125.8	107.6	94.8	78.4	58.3	38.3	21.9	14.6	14.6
65°	3356.1	933.4	105.7	89.3	78.4	63.8	43.8	23.7	12.8	5.5	5.5
67.5°	2550.3	577.9	87.5	74.7	67.4	51.0	31.0	14.6	5.5	1.8	0.0
70°	1463.8	300.8	69.3	60.2	52.9	38.3	21.9	7.3	3.6	0.0	0.0
71°	1022.7	222.4	62.0	52.9	47.4	34.6	18.2	5.5	1.8	0.0	0.0
72.5°	512.3	147.7	52.9	43.8	38.3	27.3	14.6	5.5	1.8	0.0	0.0
75°	182.3	94.8	36.5	29.2	27.3	20.1	9.1	3.6	1.8	0.0	0.0
77.5°	125.8	76.6	25.5	18.2	18.2	12.8	5.5	1.8	1.8	0.0	0.0
80°	114.8	41.9	16.4	10.9	9.1	7.3	3.6	1.8	0.0	0.0	0.0
82.5°	114.8	31.0	9.1	7.3	5.5	3.6	1.8	0.0	0.0	0.0	0.0
85°	80.2	16.4	5.5	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	5.5	3.6	1.8	1.8	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)