

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: P484728

Luminaire Tested: **IFLD-M-SA4A-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

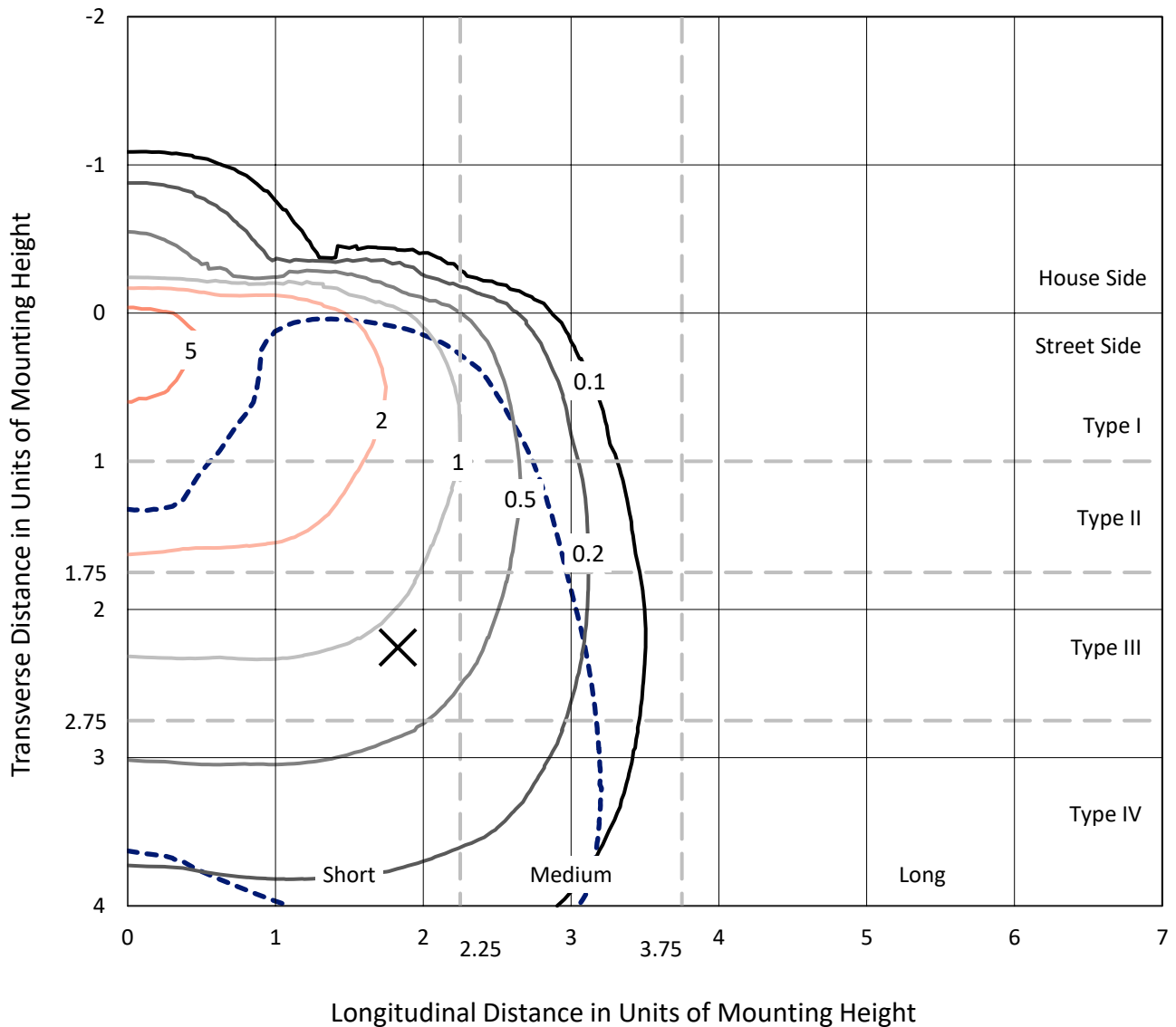
Lumens per Lamp: N/A
Luminaire Lumens: 13892.3 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

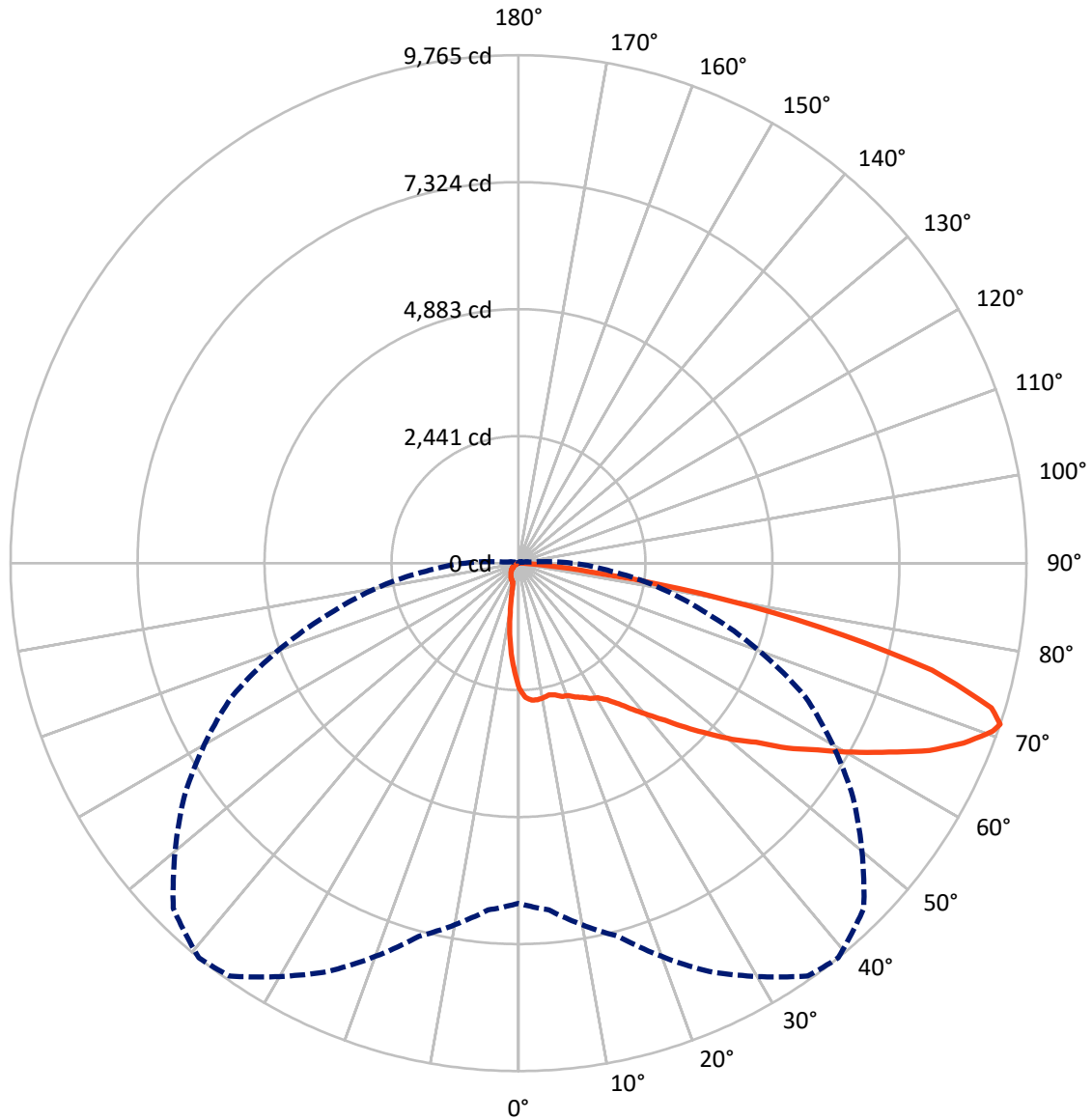
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	1045.9	0.0	1045.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12846.4	0.0	12846.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	13892.3	0.0	13892.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	1.5
10°-20°	497.6	3.6
20°-30°	798.8	5.8
30°-40°	1222.8	8.8
40°-50°	1962.8	14.1
50°-60°	2883.0	20.8
60°-70°	3631.1	26.1
70°-80°	2423.3	17.4
80°-90°	270.8	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°	13892.3	100.0
0°-180°	13892.3	100.0

Coefficient of Utilization



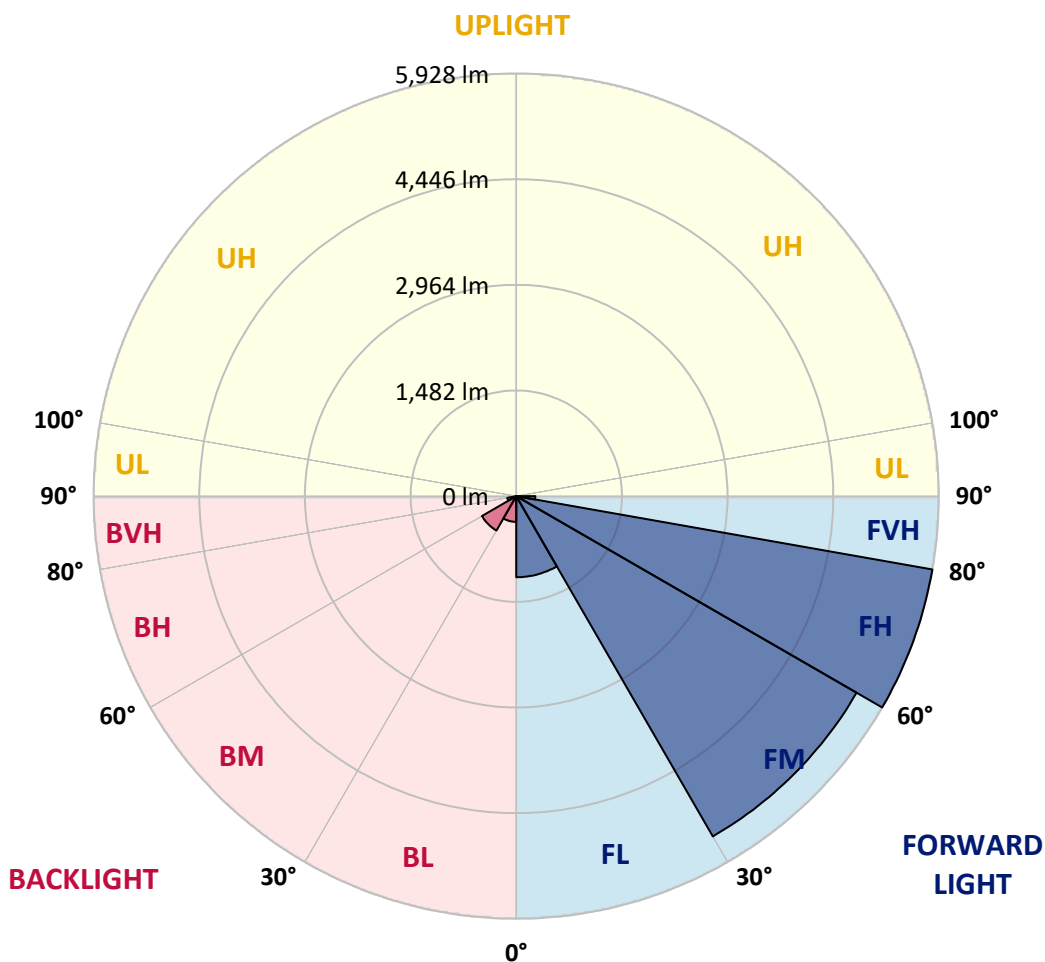
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.5	8.2			
FM (30°-60°)	5512.7	39.7			
FH (60°-80°)	5928.4	42.7			G3/7500
FVH (80°-90°)	267.8	1.9			G3/500
BL (0°-30°)	361.1	2.6	B1/500		
BM (30°-60°)	555.9	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°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2605.7	2631.2	2605.7	2594.8	2583.9	2585.7	2556.5	2562.0	2527.4	2481.8	2445.4
5°	2687.7	2722.4	2695.0	2682.3	2680.4	2645.8	2631.2	2596.6	2554.7	2483.6	2439.9
7.5°	2680.4	2673.2	2685.9	2675.0	2651.3	2651.3	2634.9	2585.7	2543.8	2463.6	2388.9
10°	2625.8	2647.6	2636.7	2624.0	2629.4	2631.2	2600.3	2565.6	2552.9	2472.7	2350.6
12.5°	2620.3	2583.9	2624.0	2625.8	2602.1	2600.3	2596.6	2587.5	2547.4	2474.5	2359.7
15°	2602.1	2587.5	2627.6	2629.4	2634.9	2629.4	2634.9	2627.6	2587.5	2545.6	2399.8
17.5°	2616.7	2600.3	2656.8	2684.1	2671.3	2696.8	2687.7	2654.9	2620.3	2571.1	2438.1
20°	2620.3	2644.0	2706.0	2716.9	2757.0	2715.1	2713.2	2678.6	2656.8	2603.9	2461.8
22.5°	2687.7	2698.7	2775.2	2798.9	2800.7	2795.2	2749.7	2709.6	2700.5	2634.9	2467.2
25°	2789.8	2828.0	2862.7	2877.2	2882.7	2857.2	2809.8	2758.8	2736.9	2695.0	2523.7
27.5°	2970.2	2946.5	2977.5	2999.3	2937.4	2946.5	2886.3	2842.6	2811.6	2775.2	2589.3
30°	3130.5	3108.7	3110.5	3106.8	3054.0	3004.8	2988.4	2911.9	2873.6	2888.2	2691.4
32.5°	3274.5	3227.1	3267.2	3249.0	3150.6	3136.0	3123.2	3026.7	3033.9	3101.4	2844.4
35°	3407.5	3391.1	3423.9	3391.1	3325.5	3321.9	3309.1	3225.3	3265.4	3361.9	3106.8
37.5°	3529.6	3535.0	3575.1	3558.7	3564.2	3567.8	3560.6	3471.3	3586.1	3802.9	3413.0
40°	3642.6	3635.3	3733.7	3784.7	3795.6	3835.7	3835.7	3813.8	3990.6	4234.8	3837.5
42.5°	3762.8	3781.0	3908.6	3994.2	4098.1	4132.7	4180.1	4191.0	4464.4	4743.2	4271.2
45°	3959.6	3928.6	4090.8	4293.1	4384.2	4506.3	4579.2	4641.1	4970.9	5353.6	4704.9
47.5°	4209.3	4147.3	4289.4	4582.8	4794.2	4894.4	5025.6	5107.6	5430.1	5825.5	5114.9
50°	4486.2	4422.5	4491.7	4896.2	5142.2	5324.4	5492.1	5595.9	5985.9	6354.0	5413.7
52.5°	4799.6	4741.3	4752.3	5222.4	5585.0	5718.0	5938.5	6093.4	6481.5	6672.9	5519.4
55°	5133.1	5118.5	5083.9	5541.3	5973.1	6272.0	6405.0	6590.9	6989.9	6846.0	5634.2
57.5°	5468.4	5422.8	5472.0	5964.0	6596.3	6774.9	6958.9	7070.1	7272.4	6997.2	5590.5
60°	5783.6	5787.3	5856.5	6423.2	7126.6	7379.9	7545.7	7478.3	7562.1	7062.8	5490.3
62.5°	6049.7	6042.4	6217.3	6938.9	7828.1	7999.4	8123.3	7822.7	7696.9	7126.6	5315.3
65°	6288.4	6370.4	6645.5	7553.0	8487.8	8684.6	8609.8	8148.8	7828.1	6938.9	4823.3
67.5°	6468.8	6590.9	7068.3	8130.6	9092.7	9231.2	9127.3	8396.6	7673.2	6202.7	3928.6
70°	6574.5	6698.4	7370.8	8611.7	9575.6	9675.8	9431.7	8205.3	6769.4	4491.7	2450.8
71°	6541.7	6692.9	7429.1	8662.7	9690.4	9765.1	9386.1	7851.8	6087.9	3761.0	1787.6
72.5°	6244.6	6386.8	7186.7	8626.2	9551.9	9506.4	9030.8	7002.7	4792.4	2398.0	923.8
75°	4588.3	4741.3	6168.1	7461.9	8526.0	8212.6	7308.8	4914.4	2500.0	734.3	269.7
77.5°	2285.0	2310.5	3828.4	5417.4	6253.8	5942.2	4898.0	2740.6	934.8	216.8	134.8
80°	1053.2	1060.5	1435.9	2806.2	3781.0	3558.7	2744.2	1352.1	422.7	114.8	105.7
82.5°	717.9	728.9	865.5	1162.6	1641.8	1384.9	1111.5	865.5	242.4	69.2	103.9
85°	131.2	120.3	484.7	615.9	634.1	430.0	384.5	748.9	91.1	40.1	91.1
87.5°	0.0	1.8	67.4	251.5	226.0	100.2	131.2	182.2	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°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2414.4	2394.4	2326.9	2252.2	2184.8	2132.0	2064.5	2033.6	1984.4	1957.0	1955.2
5°	2379.8	2325.1	2208.5	2082.8	1942.5	1825.8	1696.5	1623.6	1539.7	1514.2	1508.8
7.5°	2321.5	2243.1	2071.8	1895.1	1680.1	1474.2	1315.6	1146.2	1042.3	998.6	982.2
10°	2285.0	2190.3	1957.0	1692.8	1392.2	1102.4	880.1	699.7	605.0	559.4	548.5
12.5°	2285.0	2183.0	1864.1	1499.7	1100.6	754.4	544.8	441.0	410.0	399.1	399.1
15°	2279.6	2168.4	1774.8	1301.0	814.5	506.6	406.3	384.5	380.8	379.0	377.2
17.5°	2306.9	2142.9	1683.7	1087.8	575.8	399.1	373.5	369.9	366.3	366.3	362.6
20°	2326.9	2128.3	1574.4	861.9	430.0	369.9	359.0	353.5	351.7	349.9	353.5
22.5°	2310.5	2106.5	1439.5	645.1	375.4	351.7	344.4	338.9	335.3	335.3	337.1
25°	2341.5	2086.4	1304.7	486.5	351.7	335.3	328.0	324.3	322.5	320.7	317.1
27.5°	2383.4	2095.5	1144.3	391.8	331.6	318.9	311.6	307.9	306.1	302.5	306.1
30°	2434.4	2093.7	967.6	342.6	313.4	300.7	293.4	291.6	287.9	286.1	287.9
32.5°	2521.9	2141.1	785.4	317.1	293.4	282.4	275.2	273.3	271.5	269.7	267.9
35°	2709.6	2199.4	614.1	297.0	275.2	262.4	256.9	253.3	251.5	249.6	247.8
37.5°	2941.0	2328.8	468.3	278.8	256.9	244.2	238.7	236.9	229.6	227.8	226.0
40°	3230.7	2467.2	360.8	258.8	240.5	227.8	222.3	216.8	207.7	204.1	200.4
42.5°	3591.5	2602.1	297.0	240.5	222.3	213.2	204.1	195.0	187.7	180.4	176.8
45°	3952.3	2758.8	260.6	224.1	207.7	196.8	189.5	176.8	164.0	153.1	151.2
47.5°	4253.0	2815.3	238.7	205.9	193.2	184.0	173.1	156.7	138.5	127.6	125.7
50°	4477.1	2782.5	216.8	187.7	176.8	167.6	153.1	133.0	114.8	103.9	100.2
52.5°	4520.9	2638.5	196.8	173.1	160.4	149.4	133.0	111.2	91.1	80.2	78.4
55°	4489.9	2399.8	180.4	160.4	145.8	129.4	111.2	89.3	71.1	60.1	58.3
57.5°	4426.1	2117.4	162.2	144.0	127.6	111.2	91.1	72.9	52.8	41.9	41.9
60°	4209.3	1732.9	144.0	125.7	109.3	94.8	74.7	52.8	36.4	27.3	25.5
62.5°	3906.8	1332.0	125.7	107.5	94.8	78.4	58.3	38.3	21.9	14.6	14.6
65°	3354.7	933.0	105.7	89.3	78.4	63.8	43.7	23.7	12.8	5.5	5.5
67.5°	2549.2	577.6	87.5	74.7	67.4	51.0	31.0	14.6	5.5	1.8	0.0
70°	1463.2	300.7	69.2	60.1	52.8	38.3	21.9	7.3	3.6	0.0	0.0
71°	1022.2	222.3	62.0	52.8	47.4	34.6	18.2	5.5	1.8	0.0	0.0
72.5°	512.0	147.6	52.8	43.7	38.3	27.3	14.6	5.5	1.8	0.0	0.0
75°	182.2	94.8	36.4	29.2	27.3	20.0	9.1	3.6	1.8	0.0	0.0
77.5°	125.7	76.5	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)