

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: P481642

Luminaire Tested: **IFLD-S-SA6A-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481642
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

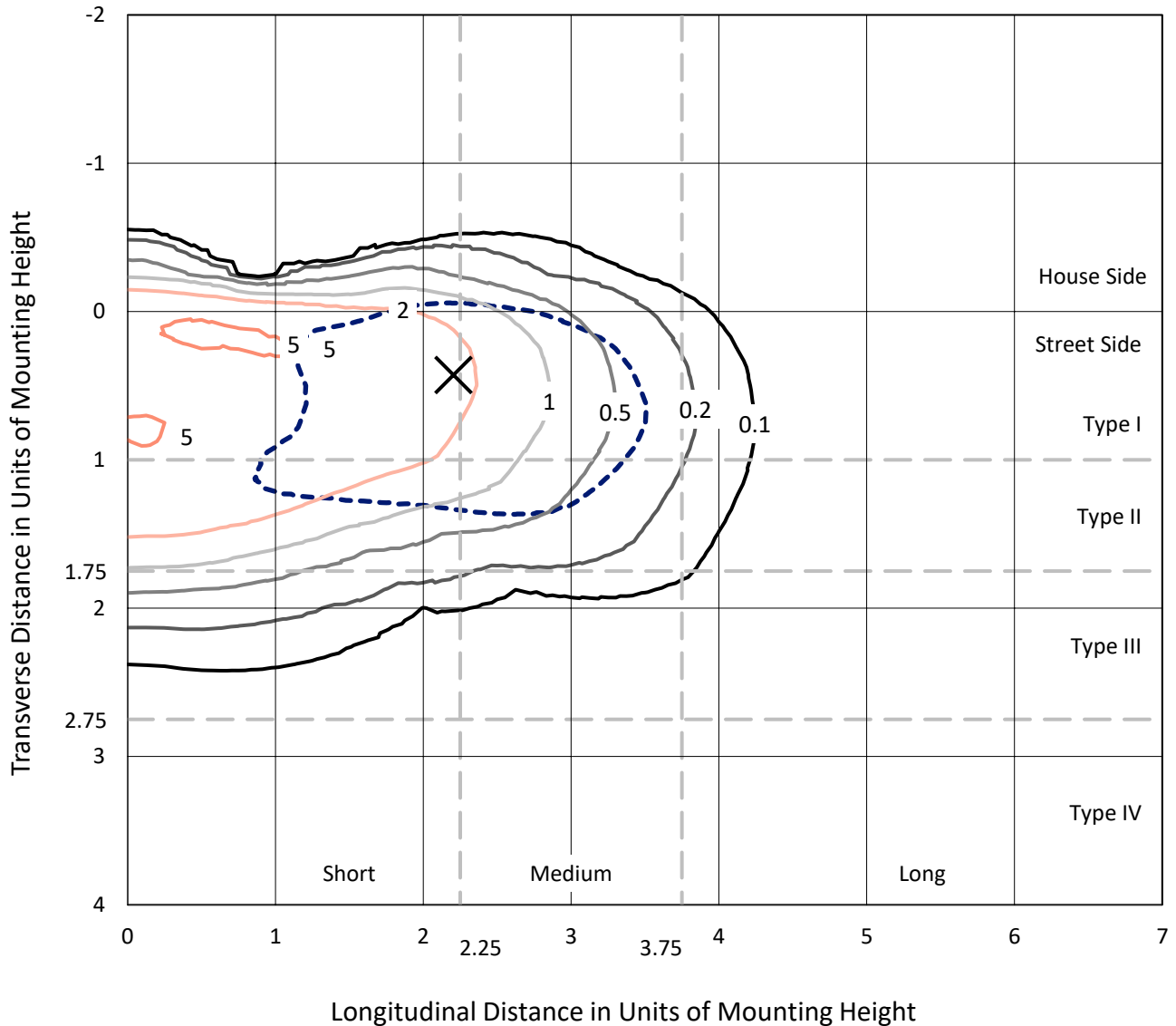
Lumens per Lamp: N/A
Luminaire Lumens: 19170.2 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

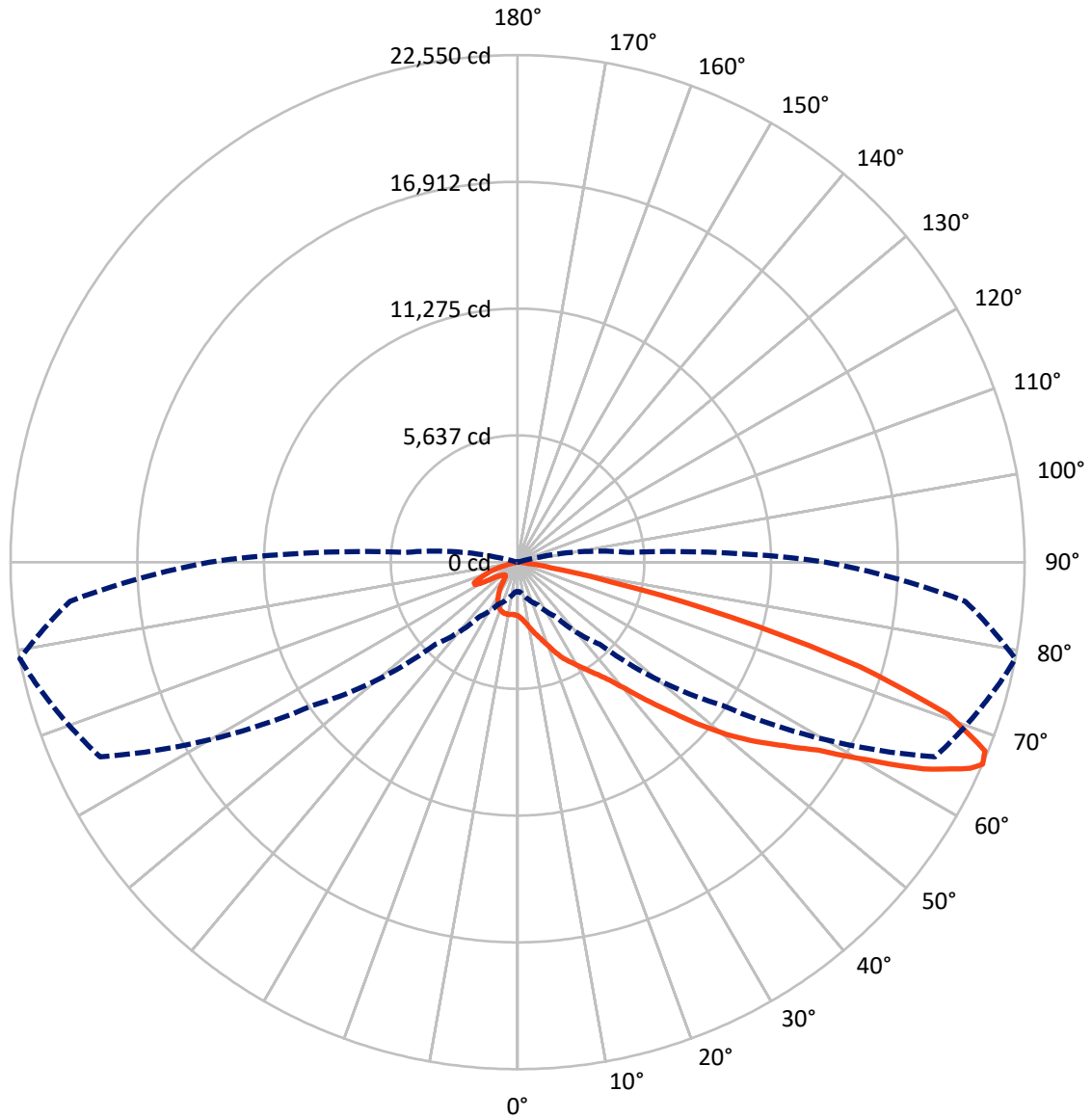
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1439.4	0.0	1439.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17730.8	0.0	17730.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	19170.2	0.0	19170.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.2
10°-20°	620.8	3.2
20°-30°	1031.2	5.4
30°-40°	1771.3	9.2
40°-50°	3208.9	16.7
50°-60°	5072.3	26.5
60°-70°	5161.5	26.9
70°-80°	1968.3	10.3
80°-90°	110.4	0.6
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°	19170.2	100.0
0°-180°	19170.2	100.0

Coefficient of Utilization



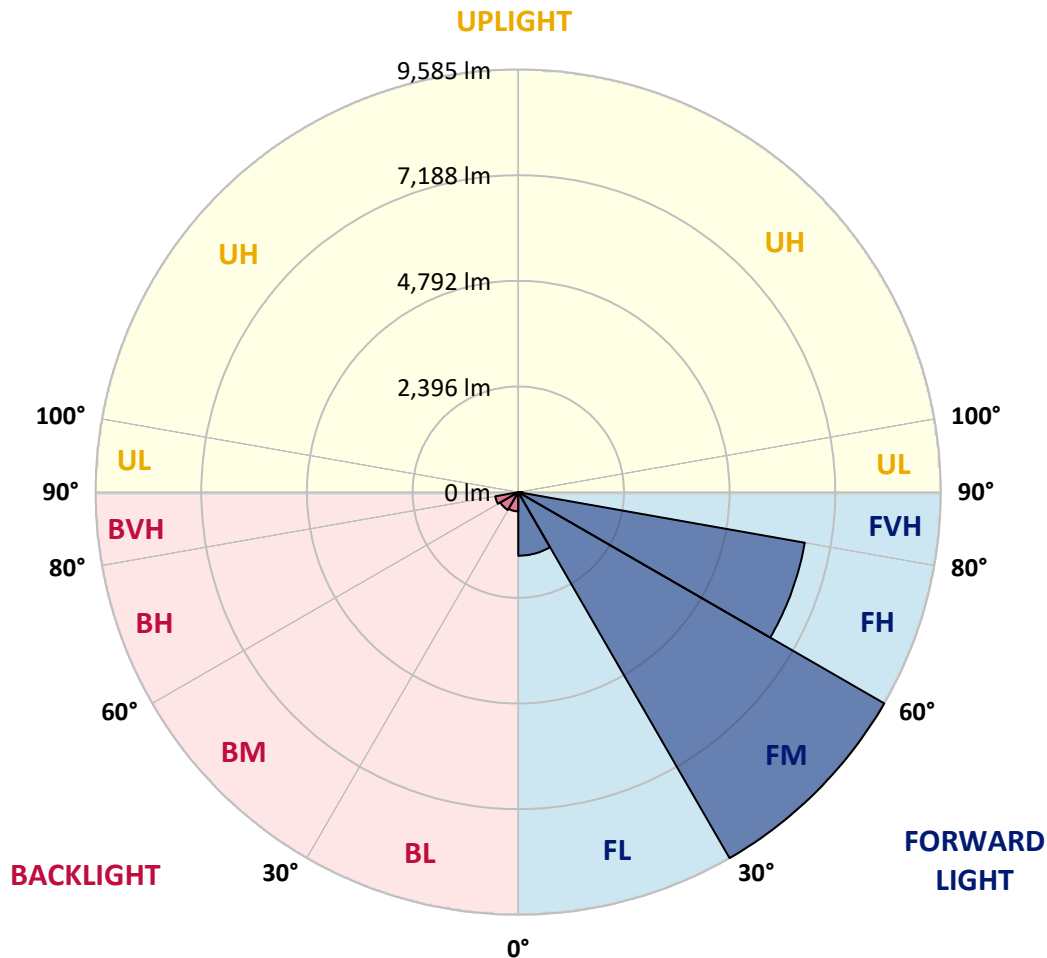
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.2	7.5			
FM (30°-60°)	9584.7	50.0			
FH (60°-80°)	6599.2	34.4			G3/7500
FVH (80°-90°)	104.7	0.5			G2/225
BL (0°-30°)	435.3	2.3	B1/500		
BM (30°-60°)	467.8	2.4	B1/1000		
BH (60°-80°)	530.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2701.2	2698.3	2686.5	2665.8	2639.2	2630.3	2591.9	2538.7	2509.1	2476.6	2461.8
5°	2887.4	2872.6	2908.1	2893.3	2899.2	2828.3	2781.0	2742.6	2630.3	2586.0	2515.0
7.5°	2928.8	2943.6	2940.6	2964.3	2987.9	3014.5	2982.0	2925.8	2813.5	2748.5	2671.7
10°	2928.8	2922.9	2946.5	2979.0	3047.0	3106.1	3194.8	3120.9	3035.2	2958.4	2819.4
12.5°	2875.6	2866.7	2890.4	2958.4	3079.5	3200.7	3298.2	3369.2	3248.0	3185.9	3005.6
15°	2713.1	2704.2	2801.7	2922.9	3082.5	3280.5	3484.4	3599.7	3516.9	3419.4	3218.4
17.5°	2512.1	2523.9	2627.3	2828.3	3082.5	3318.9	3579.0	3830.2	3818.4	3694.2	3484.4
20°	2444.1	2453.0	2556.4	2701.2	2990.9	3345.5	3726.8	4081.4	4152.3	4004.6	3729.7
22.5°	2574.1	2565.3	2574.1	2662.8	2928.8	3321.9	3824.3	4368.1	4495.2	4379.9	4051.8
25°	3017.5	3011.5	2937.7	2801.7	2893.3	3268.7	3874.5	4557.2	4849.8	4743.4	4311.9
27.5°	3667.6	3644.0	3528.7	3245.0	3058.8	3301.2	3957.3	4740.5	5160.1	5038.9	4545.4
30°	4365.1	4309.0	4158.2	3803.6	3487.4	3422.3	4004.6	4876.4	5505.9	5352.2	4749.3
32.5°	4846.8	4920.7	4873.4	4512.9	4028.2	3703.1	4081.4	5047.8	5825.1	5724.6	5098.1
35°	5591.6	5677.3	5479.3	5160.1	4672.5	4149.4	4243.9	5186.7	6315.7	6147.2	5423.2
37.5°	6531.4	6596.4	6454.6	5848.7	5334.5	4699.1	4577.9	5476.3	6738.3	6658.5	5839.9
40°	7004.3	7317.6	7116.6	6569.8	6017.2	5467.5	5130.6	5816.2	7474.2	7409.2	6416.2
42.5°	7657.4	7814.1	7710.6	7305.7	6729.4	6289.1	5813.3	6478.2	8366.7	8366.7	7196.4
45°	8349.0	8354.9	8349.0	8018.0	7506.7	7279.1	6735.3	7308.7	9327.2	9433.6	8130.3
47.5°	8916.4	9093.8	9079.0	8881.0	8484.9	8399.2	7657.4	8254.4	10533.0	10719.2	9040.6
50°	9209.0	9407.0	9466.1	9569.6	9551.8	9732.1	8665.2	9350.9	11573.3	12031.4	10210.9
52.5°	9129.2	9144.0	9507.5	9915.4	10565.5	11070.9	9879.9	10595.1	12791.0	13243.1	11115.2
55°	8476.1	8419.9	9167.6	9634.6	10979.3	11889.6	11561.5	12146.7	13739.6	14428.2	12049.1
57.5°	7042.7	7057.5	7749.0	8697.7	10671.9	12214.6	13358.4	14174.1	15069.6	15764.1	13361.3
60°	4861.6	4843.9	5618.2	6714.7	8866.2	11608.8	14392.8	16801.4	16848.7	17832.9	15716.8
62.5°	2733.7	2739.7	3327.8	4264.6	6203.4	9486.8	14342.5	19591.3	19390.3	20253.3	18394.4
65°	1548.6	1587.0	1991.9	2526.9	3714.9	6368.9	12335.8	20702.5	21349.8	22118.2	20019.8
66°	1309.2	1335.8	1681.6	2086.5	2964.3	5166.0	11103.4	20486.8	21964.5	22549.7	19987.3
67.5°	1013.7	1049.2	1338.8	1655.0	2175.2	3576.0	8937.1	19414.0	22076.8	22419.6	19422.9
70°	694.5	718.2	939.8	1256.0	1486.6	1829.4	5343.4	16050.8	20031.7	20321.3	16881.2
72.5°	487.6	499.5	659.1	951.6	1143.7	1046.2	2651.0	11419.6	15329.6	15894.1	13130.8
75°	351.7	363.5	452.2	682.7	892.5	685.7	1214.7	7293.9	9401.1	9844.4	7908.6
77.5°	254.2	268.9	307.4	440.4	647.2	481.7	597.0	3809.5	4433.1	4356.3	3401.7
80°	153.7	168.5	227.6	283.7	472.9	339.9	328.0	1590.0	1572.3	1492.5	1069.9
82.5°	70.9	82.8	121.2	192.1	331.0	236.4	156.6	567.4	496.5	455.1	301.5
85°	20.7	26.6	70.9	144.8	168.5	115.3	94.6	195.1	203.9	174.4	100.5
87.5°	0.0	3.0	32.5	35.5	50.2	38.4	35.5	50.2	94.6	76.8	32.5
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°	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0	2385.0
2.5°	2408.6	2388.0	2337.7	2260.9	2192.9	2157.4	2107.2	2062.9	2039.2	2036.3	2033.3
5°	2467.8	2411.6	2290.4	2151.5	2048.1	1935.8	1858.9	1802.8	1749.6	1699.4	1728.9
7.5°	2547.6	2458.9	2260.9	2080.6	1856.0	1711.2	1575.2	1495.4	1448.1	1403.8	1397.9
10°	2671.7	2559.4	2240.2	1915.1	1658.0	1445.2	1306.3	1191.0	1126.0	1049.2	1078.7
12.5°	2840.1	2639.2	2163.3	1764.4	1433.4	1208.8	1010.7	824.6	721.1	641.3	644.3
15°	3008.6	2745.6	2092.4	1581.1	1229.4	933.9	644.3	517.2	487.6	469.9	475.8
17.5°	3174.1	2831.3	1983.1	1394.9	996.0	594.0	469.9	443.3	428.5	410.8	410.8
20°	3375.1	2887.4	1847.1	1223.5	685.7	440.4	401.9	384.2	360.6	336.9	339.9
22.5°	3570.1	2934.7	1690.5	1004.8	461.0	381.2	336.9	313.3	292.6	268.9	268.9
25°	3765.2	2949.5	1486.6	721.1	372.4	304.4	263.0	230.5	209.8	189.1	192.1
27.5°	3898.2	2857.9	1294.5	461.0	298.5	230.5	183.2	156.6	138.9	118.2	118.2
30°	3975.0	2689.4	1087.6	325.1	224.6	156.6	109.3	82.8	65.0	50.2	47.3
32.5°	4051.8	2553.5	854.1	248.3	147.8	82.8	41.4	14.8	0.0	0.0	0.0
35°	4205.5	2399.8	573.3	138.9	50.2	3.0	0.0	0.0	0.0	0.0	0.0
37.5°	4303.1	2187.0	263.0	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4548.4	2080.6	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4947.3	2006.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5384.7	1977.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5966.9	2057.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6581.7	2272.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7255.5	2476.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7843.6	2721.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8925.3	3301.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10867.0	4439.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13054.0	5284.2	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13854.9	5263.6	56.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13713.0	4973.9	56.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12977.1	4418.3	50.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11144.8	3649.9	50.2	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8496.8	2843.1	47.3	11.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5127.6	1513.2	38.4	14.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2042.2	532.0	29.6	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	552.7	159.6	17.7	11.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	144.8	59.1	14.8	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0
85°	56.2	23.6	11.8	8.9	8.9	5.9	3.0	0.0	0.0	0.0	0.0
87.5°	17.7	8.9	8.9	5.9	5.9	3.0	3.0	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)