

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: P484065

Luminaire Tested: **IFLD-M-SA4A-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484065
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

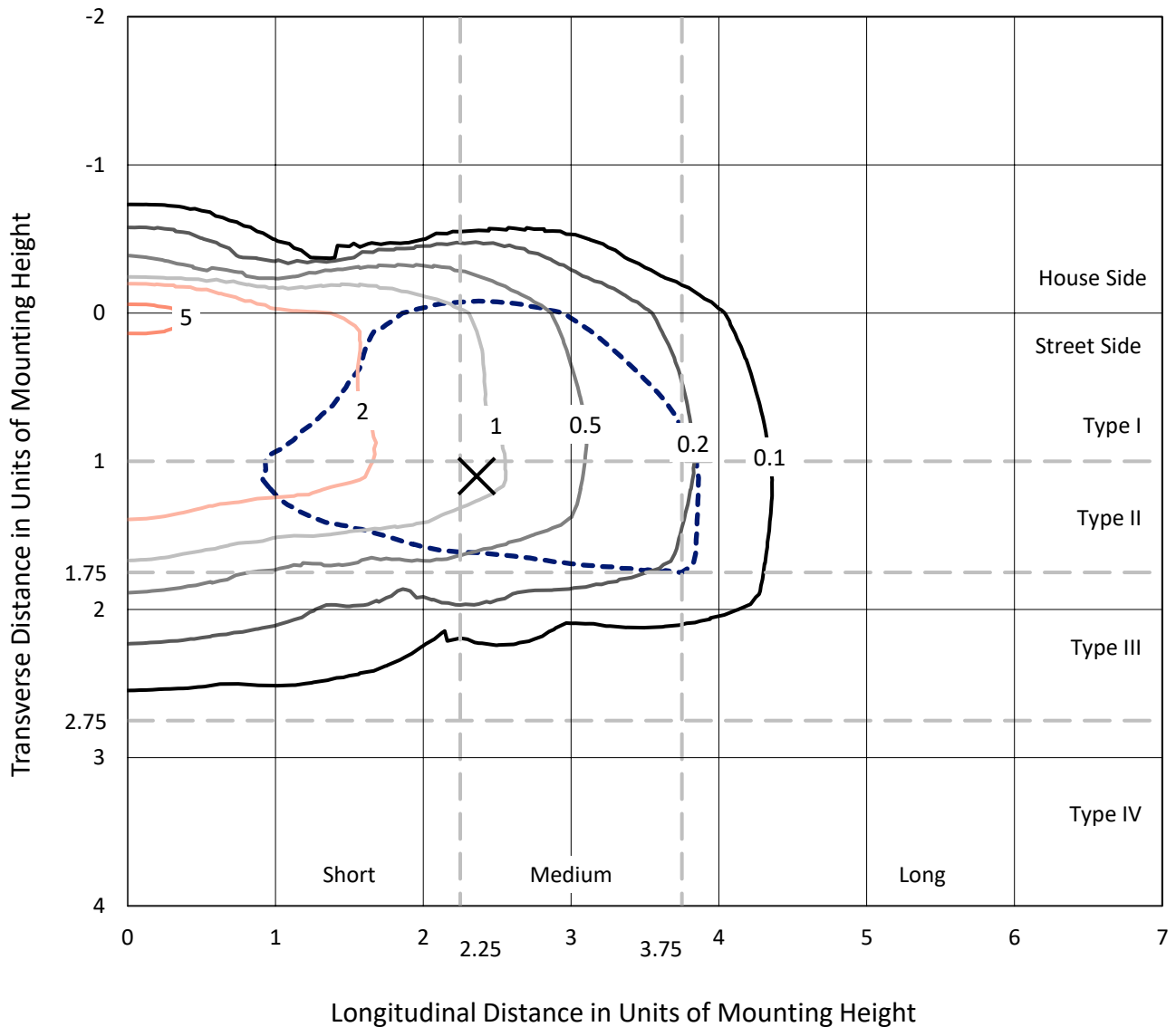
Lumens per Lamp: N/A
Luminaire Lumens: 15547.7 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

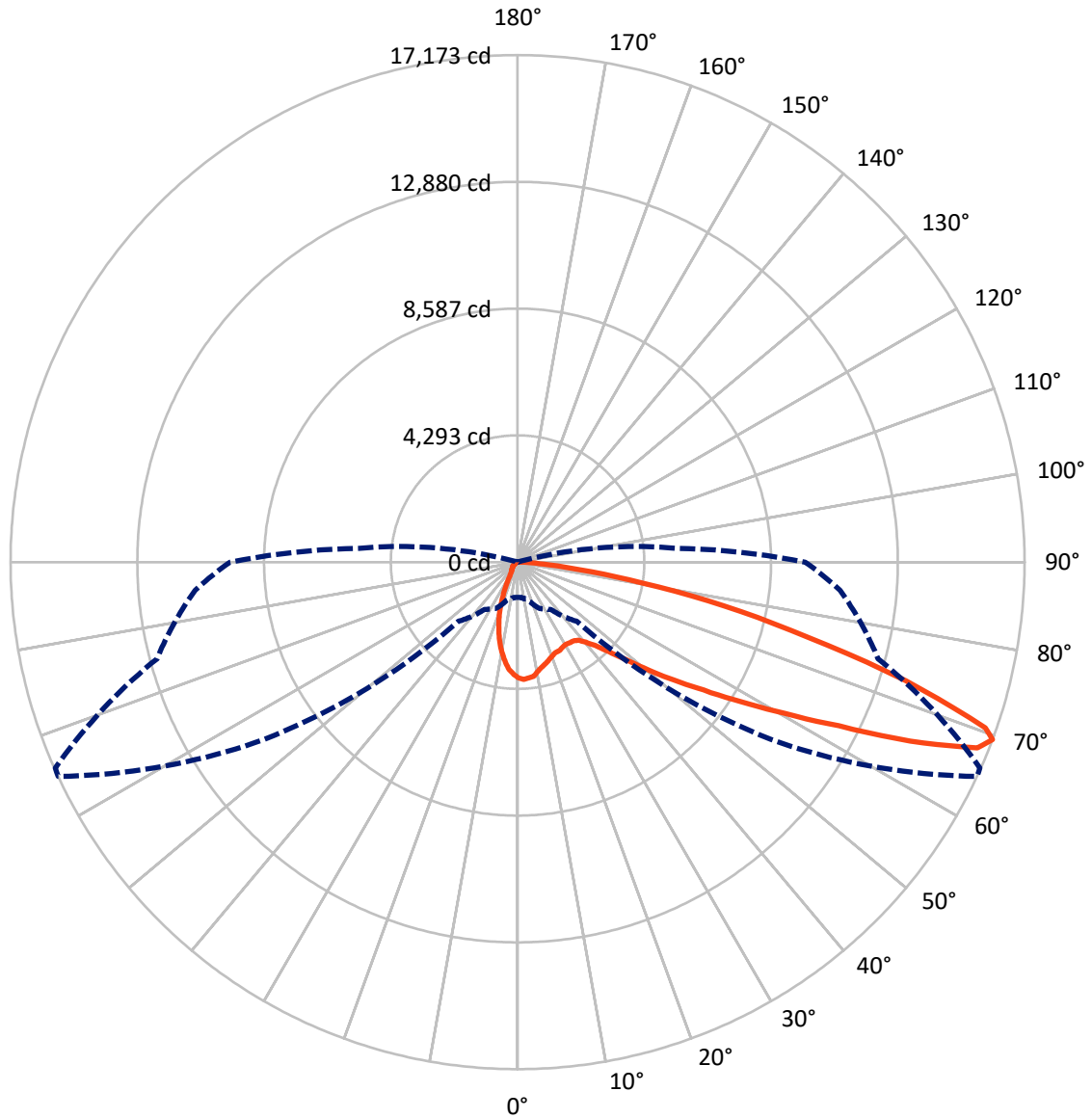
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1886.0	0.0	1886.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13661.7	0.0	13661.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	15547.7	0.0	15547.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.8	2.1
10°-20°	701.9	4.5
20°-30°	977.1	6.3
30°-40°	1384.7	8.9
40°-50°	2182.2	14.0
50°-60°	3541.0	22.8
60°-70°	3954.6	25.4
70°-80°	2226.9	14.3
80°-90°	258.4	1.7
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°	15547.7	100.0
0°-180°	15547.7	100.0



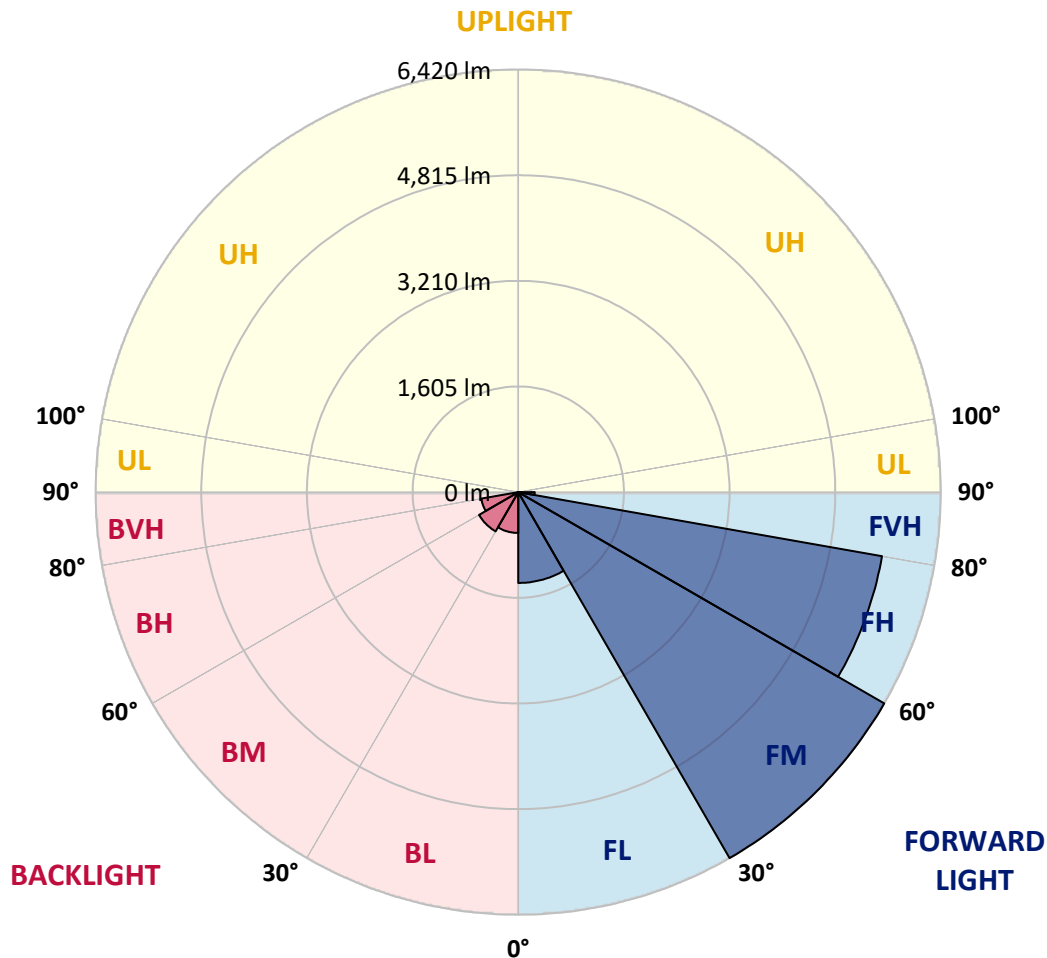
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.7	8.9			
FM (30°-60°)	6419.8	41.3			
FH (60°-80°)	5610.9	36.1			G3/7500
FVH (80°-90°)	251.3	1.6			G3/500
BL (0°-30°)	620.1	4.0	B2/1000		
BM (30°-60°)	688.2	4.4	B1/1000		
BH (60°-80°)	570.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9
2.5°	3775.2	3804.6	3813.0	3842.3	3857.0	3919.9	3955.6	3976.6	3966.1	3989.1	3991.2
5°	3506.8	3490.0	3534.0	3565.5	3632.6	3741.7	3852.8	3938.8	3978.7	4016.4	4010.1
7.5°	3219.4	3211.0	3255.1	3326.4	3387.2	3519.3	3697.6	3909.4	3901.1	3993.3	4020.6
10°	3022.3	3030.7	3045.3	3116.6	3206.8	3341.1	3563.4	3760.5	3804.6	3999.6	4054.2
12.5°	2841.9	2856.6	2883.8	2957.3	3062.1	3200.5	3416.6	3647.3	3714.4	3964.0	4073.0
15°	2783.2	2749.6	2804.1	2858.7	2967.7	3091.5	3274.0	3561.3	3590.6	3922.0	4104.5
17.5°	2734.9	2714.0	2739.1	2783.2	2898.5	2999.2	3171.2	3469.0	3523.5	3905.3	4100.3
20°	2749.6	2730.7	2741.2	2774.8	2827.2	2921.6	3081.0	3380.9	3439.6	3827.6	4094.0
22.5°	2791.6	2806.2	2787.4	2795.8	2812.5	2860.8	3032.8	3318.0	3368.3	3813.0	4129.7
25°	2980.3	2955.2	2930.0	2919.5	2820.9	2841.9	3018.1	3313.8	3349.5	3760.5	4100.3
27.5°	3177.5	3156.5	3146.0	3085.2	2951.0	2888.0	3020.2	3255.1	3303.3	3739.6	4064.6
30°	3416.6	3443.8	3401.9	3328.5	3141.8	2986.6	3043.2	3225.7	3292.8	3659.9	4041.6
32.5°	3668.3	3682.9	3703.9	3649.4	3408.2	3135.5	3112.5	3253.0	3257.2	3659.9	3989.1
35°	3953.5	3932.5	3987.0	3991.2	3779.4	3399.8	3244.6	3271.9	3315.9	3643.1	3970.3
37.5°	4198.9	4234.5	4297.5	4398.1	4180.0	3773.1	3450.1	3359.9	3378.8	3720.7	3984.9
40°	4467.3	4503.0	4645.6	4746.3	4622.5	4192.6	3762.6	3565.5	3580.2	3836.0	4060.5
42.5°	4763.1	4832.3	5002.2	5178.3	5144.8	4725.3	4165.3	3867.5	3861.2	4123.4	4215.7
45°	5163.7	5255.9	5440.5	5643.9	5673.3	5335.6	4702.2	4318.4	4339.4	4498.8	4536.6
47.5°	5721.5	5717.4	5897.7	6124.2	6294.1	5969.0	5344.0	4924.6	4922.5	5092.3	5012.6
50°	6260.6	6262.7	6310.9	6573.1	7013.5	6847.8	6138.9	5729.9	5706.9	5790.8	5662.8
52.5°	6510.1	6480.8	6445.1	6761.8	7567.2	7955.2	7145.6	6642.3	6623.4	6573.1	6539.5
55°	6248.0	6258.5	6256.4	6585.7	7858.7	9123.4	8437.6	7646.9	7615.4	7458.1	7504.3
57.5°	5406.9	5373.4	5446.8	5960.6	7525.3	9920.4	10285.4	8913.7	8831.9	8309.7	8204.8
60°	4024.8	4035.3	4096.1	4702.2	6696.8	10088.2	12053.4	10400.7	10048.4	8909.5	8764.8
62.5°	2810.4	2789.5	2812.5	3152.3	4788.2	9417.1	13248.9	12208.6	11868.9	9591.1	9507.2
65°	2011.4	1984.1	2076.4	2284.0	2875.5	7200.2	13418.8	14616.4	14312.3	10679.7	10478.3
67.5°	1447.2	1443.0	1549.9	1927.5	2042.8	4146.4	12160.4	16797.6	16613.0	11971.6	11069.8
69°	1197.6	1199.7	1302.4	1726.1	1950.5	2831.4	10463.6	17173.0	17139.5	12638.6	10958.6
70°	1044.5	1052.9	1172.4	1606.6	1912.8	2328.0	9020.7	16803.9	16770.3	12768.6	10591.6
72.5°	643.9	650.2	807.5	1287.8	1818.4	1900.2	5394.4	13748.1	13863.4	12173.0	9125.5
75°	308.3	310.4	423.7	931.2	1753.4	1801.6	2890.1	10144.8	10388.1	9828.1	7131.0
77.5°	163.6	163.6	203.4	495.0	1419.9	1694.7	1715.6	7156.1	7357.5	6214.4	4054.2
80°	81.8	83.9	123.7	258.0	880.9	1661.1	1340.2	4268.1	4377.2	2535.7	1262.6
82.5°	31.5	33.6	58.7	155.2	457.2	1403.1	1176.6	2099.4	2072.2	593.5	308.3
85°	4.2	4.2	21.0	92.3	195.1	618.7	971.1	876.7	847.3	130.0	148.9
87.5°	0.0	0.0	4.2	27.3	58.7	180.4	375.4	241.2	268.5	35.7	73.4
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°	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9	3919.9
2.5°	3980.8	3936.7	3869.6	3804.6	3735.4	3651.5	3559.2	3525.6	3466.9	3462.7	3496.3
5°	3976.6	3905.3	3787.8	3649.4	3452.2	3303.3	3141.8	3024.4	2934.2	2875.5	2890.1
7.5°	3997.5	3911.5	3708.1	3410.3	3156.5	2860.8	2611.2	2439.2	2281.9	2204.3	2195.9
10°	3964.0	3848.6	3550.8	3133.4	2760.1	2346.9	1982.0	1751.3	1516.4	1430.4	1434.6
12.5°	3982.9	3821.4	3380.9	2848.2	2334.3	1797.4	1361.2	1046.6	826.4	755.0	746.7
15°	3995.4	3762.6	3217.3	2506.3	1862.4	1224.8	788.6	593.5	524.3	511.8	509.7
17.5°	3947.2	3691.3	2986.6	2168.7	1380.1	744.6	524.3	484.5	471.9	463.5	459.3
20°	3945.1	3649.4	2787.4	1822.6	920.7	507.6	453.0	438.3	419.5	413.2	413.2
22.5°	3909.4	3561.3	2548.3	1443.0	587.3	436.2	406.9	383.8	362.8	354.5	352.4
25°	3899.0	3458.5	2323.9	1084.3	446.7	390.1	360.7	327.2	302.0	289.4	283.1
27.5°	3869.6	3370.4	2097.3	763.4	390.1	348.2	310.4	274.8	245.4	226.5	224.4
30°	3764.7	3278.1	1845.7	528.5	354.5	308.3	266.4	224.4	195.1	182.5	178.3
32.5°	3720.7	3192.2	1570.9	406.9	323.0	272.7	224.4	186.7	163.6	151.0	148.9
35°	3668.3	3066.3	1304.5	354.5	293.6	237.0	188.8	157.3	138.4	127.9	127.9
37.5°	3674.5	2965.6	1055.0	320.9	262.2	203.4	161.5	134.2	117.5	107.0	107.0
40°	3655.7	2885.9	820.1	291.5	232.8	174.1	136.3	113.3	98.6	88.1	86.0
42.5°	3741.7	2865.0	618.7	266.4	203.4	148.9	117.5	96.5	81.8	69.2	69.2
45°	3886.4	2898.5	482.4	243.3	174.1	127.9	100.7	79.7	65.0	56.6	54.5
47.5°	4272.3	3030.7	377.5	224.4	148.9	111.2	83.9	65.0	52.4	44.0	41.9
50°	4832.3	3326.4	320.9	197.2	125.8	94.4	69.2	50.3	41.9	33.6	31.5
52.5°	5629.3	3823.5	291.5	174.1	104.9	77.6	54.5	39.8	31.5	25.2	23.1
55°	6497.6	4444.3	264.3	146.8	88.1	62.9	44.0	31.5	23.1	16.8	14.7
57.5°	7175.0	4981.2	241.2	121.6	71.3	50.3	33.6	23.1	16.8	10.5	8.4
60°	7915.4	5358.7	211.8	96.5	58.7	37.8	25.2	16.8	12.6	6.3	6.3
62.5°	8678.8	5801.2	174.1	75.5	46.1	29.4	18.9	12.6	8.4	2.1	2.1
65°	9740.1	6147.3	134.2	58.7	35.7	21.0	14.7	10.5	4.2	0.0	0.0
67.5°	10040.0	5977.4	98.6	46.1	25.2	14.7	10.5	6.3	2.1	0.0	0.0
69°	9740.1	5383.9	86.0	39.8	21.0	12.6	8.4	4.2	2.1	0.0	0.0
70°	9192.6	4922.5	75.5	33.6	18.9	12.6	6.3	4.2	2.1	0.0	0.0
72.5°	7688.9	3775.2	58.7	25.2	14.7	10.5	6.3	4.2	0.0	0.0	0.0
75°	5639.8	2332.2	44.0	18.9	12.6	8.4	6.3	4.2	0.0	0.0	0.0
77.5°	3022.3	851.5	31.5	12.6	8.4	6.3	6.3	4.2	0.0	0.0	0.0
80°	828.4	251.7	23.1	8.4	6.3	4.2	4.2	2.1	0.0	0.0	0.0
82.5°	226.5	65.0	14.7	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0
85°	121.6	25.2	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	62.9	8.4	6.3	4.2	4.2	2.1	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)