

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: P484652

Luminaire Tested: **IFLD-M-SA4C-722-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484652
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

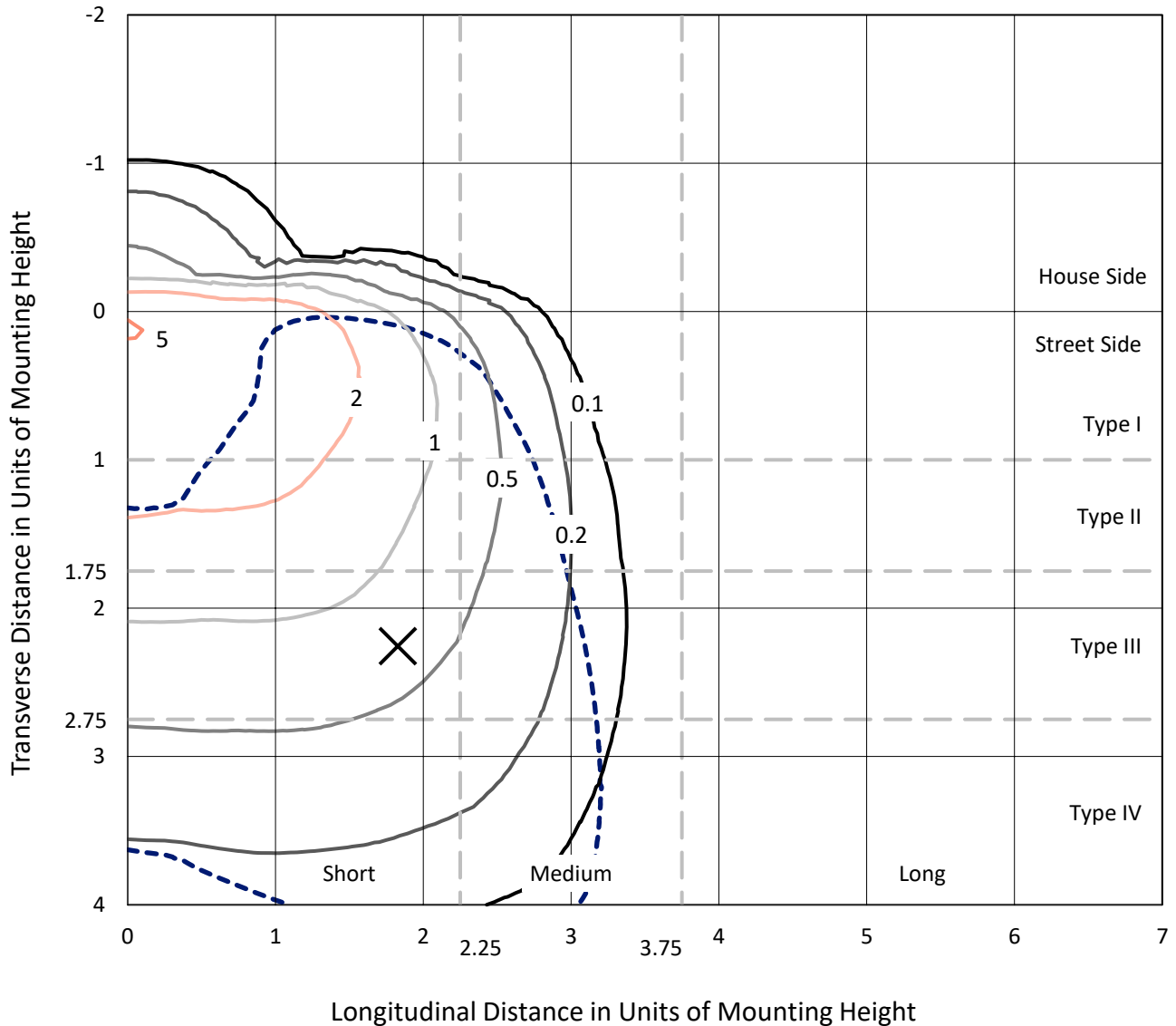
Lumens per Lamp: N/A
Luminaire Lumens: 17301.2 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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

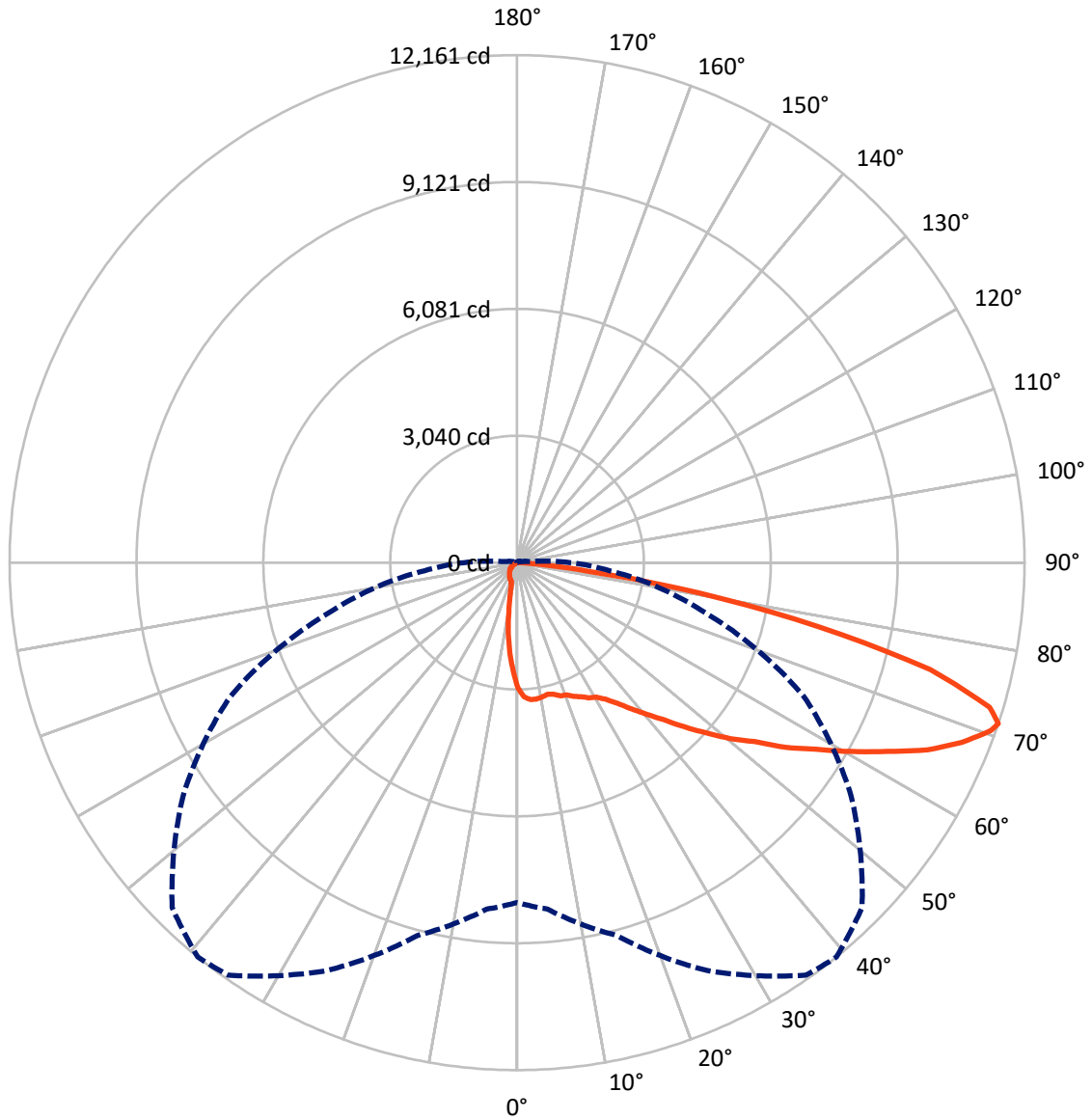
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1302.5	0.0	1302.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	15998.7	0.0	15998.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	17301.2	0.0	17301.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	1.5
10°-20°	619.7	3.6
20°-30°	994.8	5.8
30°-40°	1522.8	8.8
40°-50°	2444.4	14.1
50°-60°	3590.5	20.8
60°-70°	4522.0	26.1
70°-80°	3017.9	17.4
80°-90°	337.3	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°	17301.2	100.0
0°-180°	17301.2	100.0



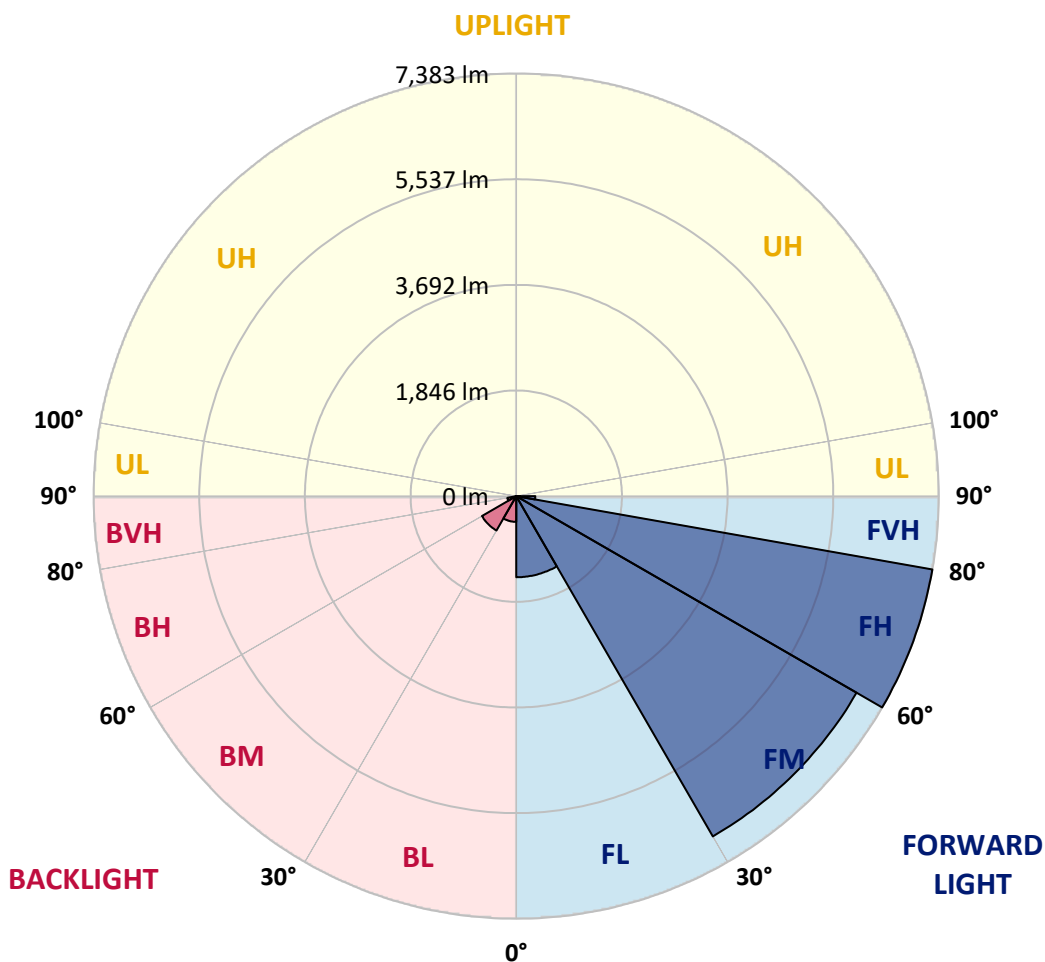
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.6	8.2			
FM (30°-60°)	6865.4	39.7			
FH (60°-80°)	7383.2	42.7			G3/7500
FVH (80°-90°)	333.5	1.9			G3/500
BL (0°-30°)	449.7	2.6	B1/500		
BM (30°-60°)	692.3	4.0	B1/1000		
BH (60°-80°)	156.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.7	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°	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4
2.5°	3245.1	3276.9	3245.1	3231.5	3217.9	3220.2	3183.9	3190.7	3147.5	3090.8	3045.4
5°	3347.2	3390.4	3356.3	3340.4	3338.2	3295.0	3276.9	3233.8	3181.6	3093.1	3038.6
7.5°	3338.2	3329.1	3345.0	3331.4	3301.9	3301.9	3281.4	3220.2	3168.0	3068.1	2975.1
10°	3270.1	3297.3	3283.7	3267.8	3274.6	3276.9	3238.3	3195.2	3179.3	3079.5	2927.4
12.5°	3263.3	3217.9	3267.8	3270.1	3240.6	3238.3	3233.8	3222.4	3172.5	3081.7	2938.8
15°	3240.6	3222.4	3272.4	3274.6	3281.4	3274.6	3281.4	3272.4	3222.4	3170.2	2988.7
17.5°	3258.7	3238.3	3308.7	3342.7	3326.8	3358.6	3347.2	3306.4	3263.3	3202.0	3036.3
20°	3263.3	3292.8	3369.9	3383.6	3433.5	3381.3	3379.0	3335.9	3308.7	3242.9	3065.8
22.5°	3347.2	3360.9	3456.2	3485.7	3487.9	3481.1	3424.4	3374.5	3363.1	3281.4	3072.7
25°	3474.3	3522.0	3565.1	3583.3	3590.1	3558.3	3499.3	3435.7	3408.5	3356.3	3143.0
27.5°	3699.0	3669.5	3708.1	3735.3	3658.1	3669.5	3594.6	3540.1	3501.6	3456.2	3224.7
30°	3898.7	3871.5	3873.7	3869.2	3803.4	3742.1	3721.7	3626.4	3578.7	3596.9	3351.8
32.5°	4078.0	4019.0	4068.9	4046.2	3923.6	3905.5	3889.6	3769.3	3778.4	3862.4	3542.4
35°	4243.6	4223.2	4264.0	4223.2	4141.5	4137.0	4121.1	4016.7	4066.6	4186.9	3869.2
37.5°	4395.7	4402.5	4452.4	4432.0	4438.8	4443.3	4434.2	4323.0	4466.0	4736.1	4250.4
40°	4536.4	4527.3	4649.8	4713.4	4727.0	4776.9	4776.9	4749.7	4969.8	5273.9	4779.2
42.5°	4686.1	4708.8	4867.7	4974.3	5103.7	5146.8	5205.8	5219.4	5559.8	5907.0	5319.3
45°	4931.2	4892.6	5094.6	5346.5	5460.0	5612.0	5702.8	5779.9	6190.7	6667.3	5859.4
47.5°	5242.1	5165.0	5342.0	5707.3	5970.6	6095.4	6258.8	6360.9	6762.6	7255.0	6370.0
50°	5587.1	5507.6	5593.9	6097.7	6404.0	6630.9	6839.7	6969.1	7454.7	7913.1	6742.1
52.5°	5977.4	5904.8	5918.4	6503.9	6955.5	7121.1	7395.7	7588.6	8072.0	8310.2	6873.8
55°	6392.7	6374.5	6331.4	6901.0	7438.8	7811.0	7976.6	8208.1	8705.1	8525.8	7016.7
57.5°	6810.2	6753.5	6814.8	7427.5	8214.9	8437.3	8666.5	8804.9	9056.8	8714.2	6962.3
60°	7202.8	7207.3	7293.6	7999.3	8875.3	9190.7	9397.2	9313.3	9417.7	8795.9	6837.5
62.5°	7534.1	7525.1	7742.9	8641.6	9749.0	9962.3	10116.6	9742.2	9585.6	8875.3	6619.6
65°	7831.4	7933.5	8276.2	9406.3	10570.5	10815.6	10722.5	10148.4	9749.0	8641.6	6006.9
67.5°	8056.1	8208.1	8802.7	10125.7	11323.9	11496.4	11367.0	10457.0	9556.1	7724.8	4892.6
70°	8187.7	8342.0	9179.4	10724.8	11925.3	12050.1	11746.0	10218.7	8430.5	5593.9	3052.2
71°	8146.8	8335.2	9252.0	10788.3	12068.2	12161.3	11689.3	9778.5	7581.8	4683.9	2226.2
72.5°	7776.9	7954.0	8950.2	10742.9	11895.8	11839.0	11246.7	8721.0	5968.3	2986.4	1150.5
75°	5714.1	5904.8	7681.6	9292.9	10618.1	10227.8	9102.2	6120.3	3113.5	914.5	335.9
77.5°	2845.7	2877.5	4767.8	6746.7	7788.3	7400.2	6099.9	3413.1	1164.2	270.0	167.9
80°	1311.7	1320.7	1788.2	3494.7	4708.8	4432.0	3417.6	1683.8	526.5	143.0	131.6
82.5°	894.1	907.7	1077.9	1447.8	2044.7	1724.7	1384.3	1077.9	301.8	86.2	129.4
85°	163.4	149.8	603.6	767.0	789.7	535.6	478.8	932.7	113.5	49.9	113.5
87.5°	0.0	2.3	84.0	313.2	281.4	124.8	163.4	226.9	11.3	15.9	20.4
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°	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4	3011.4
2.5°	3006.8	2981.9	2897.9	2804.9	2720.9	2655.1	2571.1	2532.6	2471.3	2437.2	2435.0
5°	2963.7	2895.6	2750.4	2593.8	2419.1	2273.9	2112.7	2022.0	1917.6	1885.8	1879.0
7.5°	2891.1	2793.5	2580.2	2360.1	2092.3	1835.9	1638.4	1427.4	1298.0	1243.6	1223.2
10°	2845.7	2727.7	2437.2	2108.2	1733.8	1372.9	1096.1	871.4	753.4	696.7	683.1
12.5°	2845.7	2718.6	2321.5	1867.6	1370.7	939.5	678.5	549.2	510.6	497.0	497.0
15°	2838.9	2700.5	2210.3	1620.3	1014.4	630.9	506.1	478.8	474.3	472.0	469.7
17.5°	2873.0	2668.7	2096.8	1354.8	717.1	497.0	465.2	460.7	456.1	456.1	451.6
20°	2897.9	2650.6	1960.7	1073.4	535.6	460.7	447.1	440.2	438.0	435.7	440.2
22.5°	2877.5	2623.3	1792.8	803.3	467.5	438.0	428.9	422.1	417.6	417.6	419.8
25°	2916.1	2598.4	1624.8	605.9	438.0	417.6	408.5	403.9	401.7	399.4	394.9
27.5°	2968.3	2609.7	1425.1	487.9	413.0	397.1	388.1	383.5	381.2	376.7	381.2
30°	3031.8	2607.4	1205.0	426.6	390.3	374.4	365.4	363.1	358.6	356.3	358.6
32.5°	3140.7	2666.4	978.1	394.9	365.4	351.7	342.7	340.4	338.1	335.9	333.6
35°	3374.5	2739.1	764.8	369.9	342.7	326.8	320.0	315.4	313.2	310.9	308.6
37.5°	3662.7	2900.2	583.2	347.2	320.0	304.1	297.3	295.0	285.9	283.7	281.4
40°	4023.5	3072.7	449.3	322.2	299.5	283.7	276.9	270.0	258.7	254.2	249.6
42.5°	4472.8	3240.6	369.9	299.5	276.9	265.5	254.2	242.8	233.7	224.7	220.1
45°	4922.1	3435.7	324.5	279.1	258.7	245.1	236.0	220.1	204.2	190.6	188.4
47.5°	5296.6	3506.1	297.3	256.4	240.5	229.2	215.6	195.2	172.5	158.9	156.6
50°	5575.7	3465.2	270.0	233.7	220.1	208.8	190.6	165.7	143.0	129.4	124.8
52.5°	5630.2	3286.0	245.1	215.6	199.7	186.1	165.7	138.4	113.5	99.8	97.6
55°	5591.6	2988.7	224.7	199.7	181.5	161.1	138.4	111.2	88.5	74.9	72.6
57.5°	5512.2	2636.9	202.0	179.3	158.9	138.4	113.5	90.8	65.8	52.2	52.2
60°	5242.1	2158.1	179.3	156.6	136.2	118.0	93.0	65.8	45.4	34.0	31.8
62.5°	4865.4	1658.9	156.6	133.9	118.0	97.6	72.6	47.7	27.2	18.2	18.2
65°	4177.8	1161.9	131.6	111.2	97.6	79.4	54.5	29.5	15.9	6.8	6.8
67.5°	3174.8	719.4	108.9	93.0	84.0	63.5	38.6	18.2	6.8	2.3	0.0
70°	1822.3	374.4	86.2	74.9	65.8	47.7	27.2	9.1	4.5	0.0	0.0
71°	1273.1	276.9	77.2	65.8	59.0	43.1	22.7	6.8	2.3	0.0	0.0
72.5°	637.7	183.8	65.8	54.5	47.7	34.0	18.2	6.8	2.3	0.0	0.0
75°	226.9	118.0	45.4	36.3	34.0	25.0	11.3	4.5	2.3	0.0	0.0
77.5°	156.6	95.3	31.8	22.7	22.7	15.9	6.8	2.3	2.3	0.0	0.0
80°	143.0	52.2	20.4	13.6	11.3	9.1	4.5	2.3	0.0	0.0	0.0
82.5°	143.0	38.6	11.3	9.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0
85°	99.8	20.4	6.8	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	6.8	4.5	2.3	2.3	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)