

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: P484845

Luminaire Tested: **IFLD-M-SA4A-750-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484845
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-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

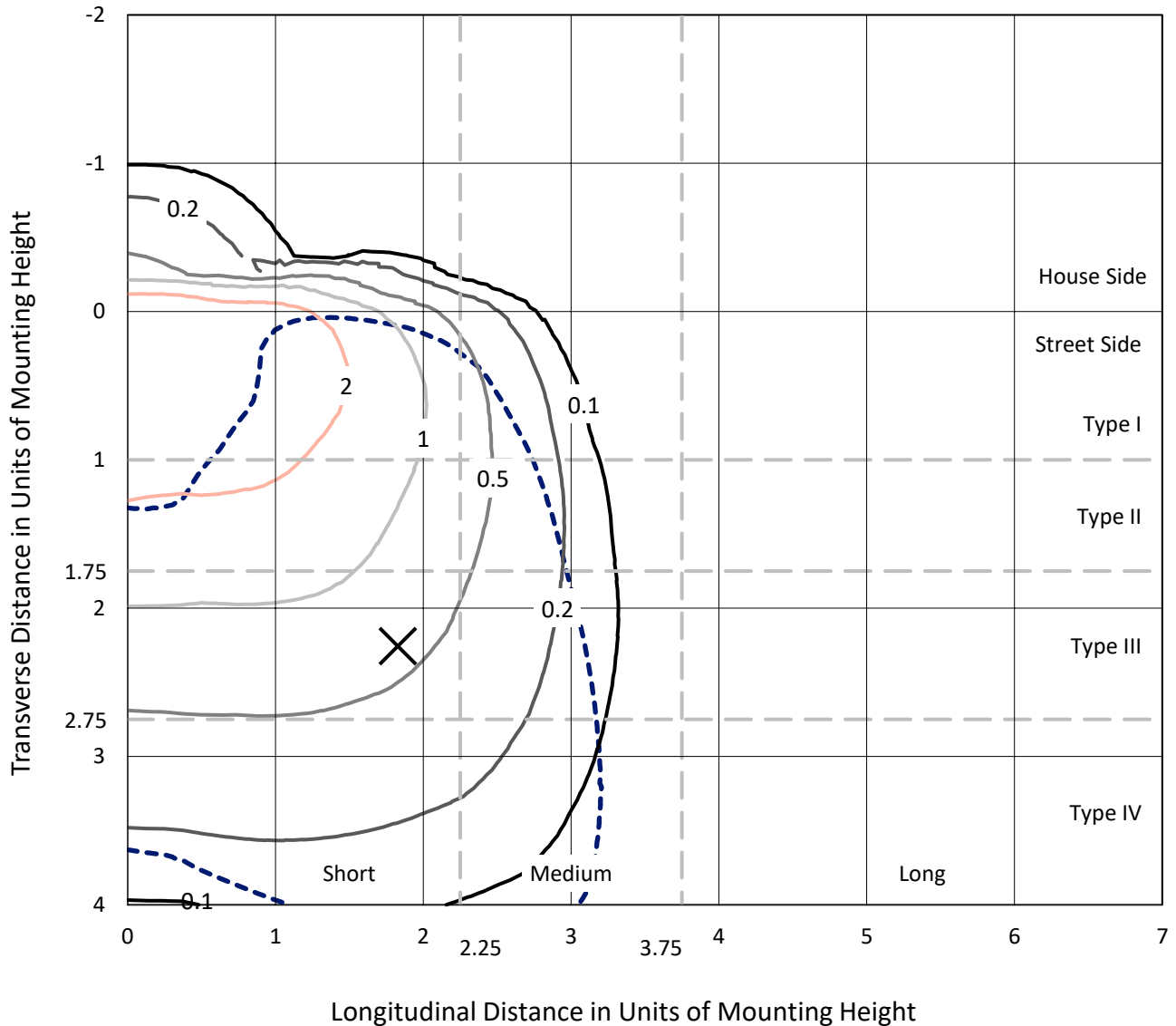
Lumens per Lamp: N/A
Luminaire Lumens: 15605.6 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

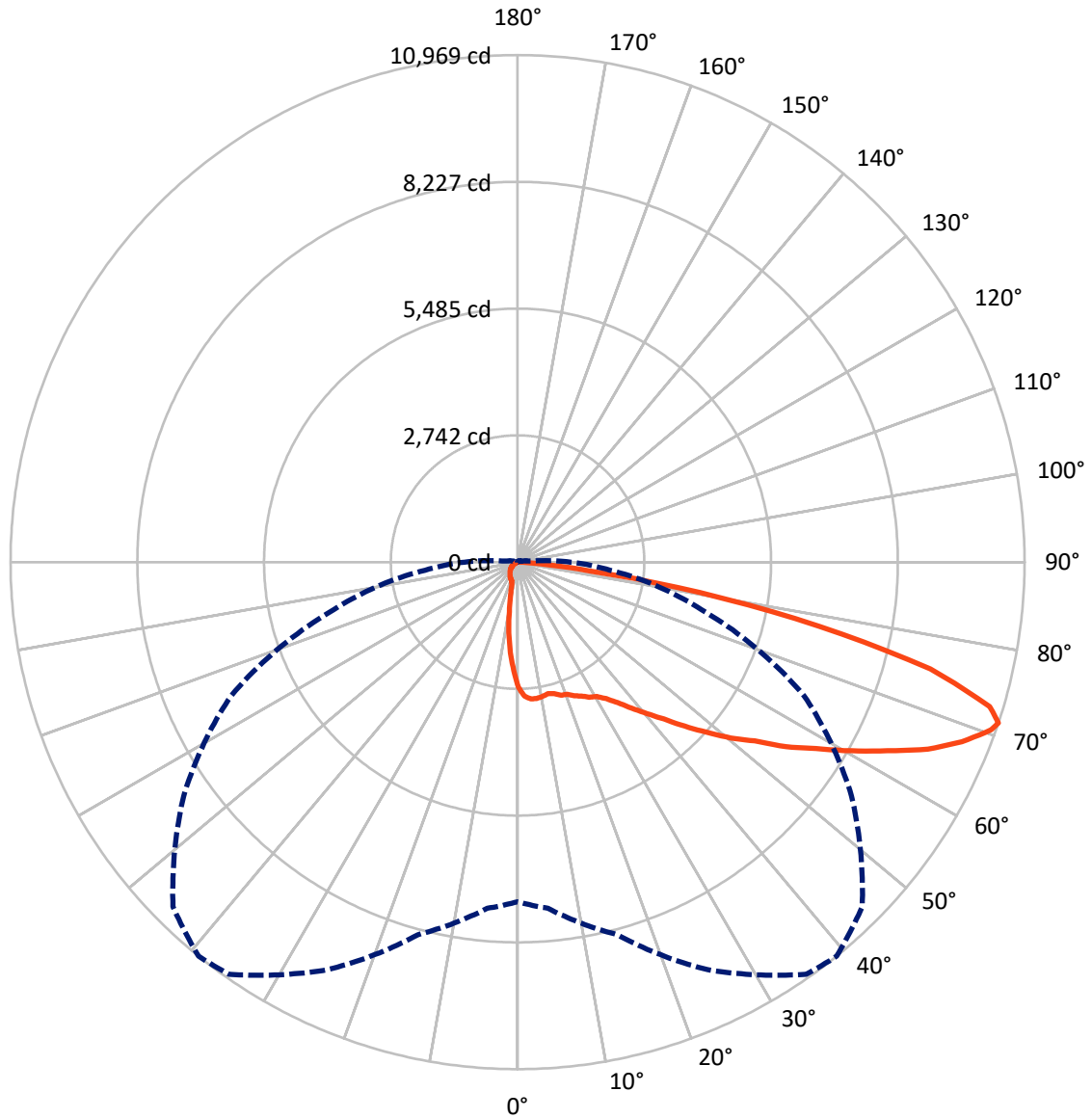
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1174.8	0.0	1174.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14430.7	0.0	14430.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	15605.6	0.0	15605.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	1.5
10°-20°	559.0	3.6
20°-30°	897.3	5.8
30°-40°	1373.6	8.8
40°-50°	2204.8	14.1
50°-60°	3238.6	20.8
60°-70°	4078.9	26.1
70°-80°	2722.1	17.4
80°-90°	304.2	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°	15605.6	100.0
0°-180°	15605.6	100.0

Coefficient of Utilization



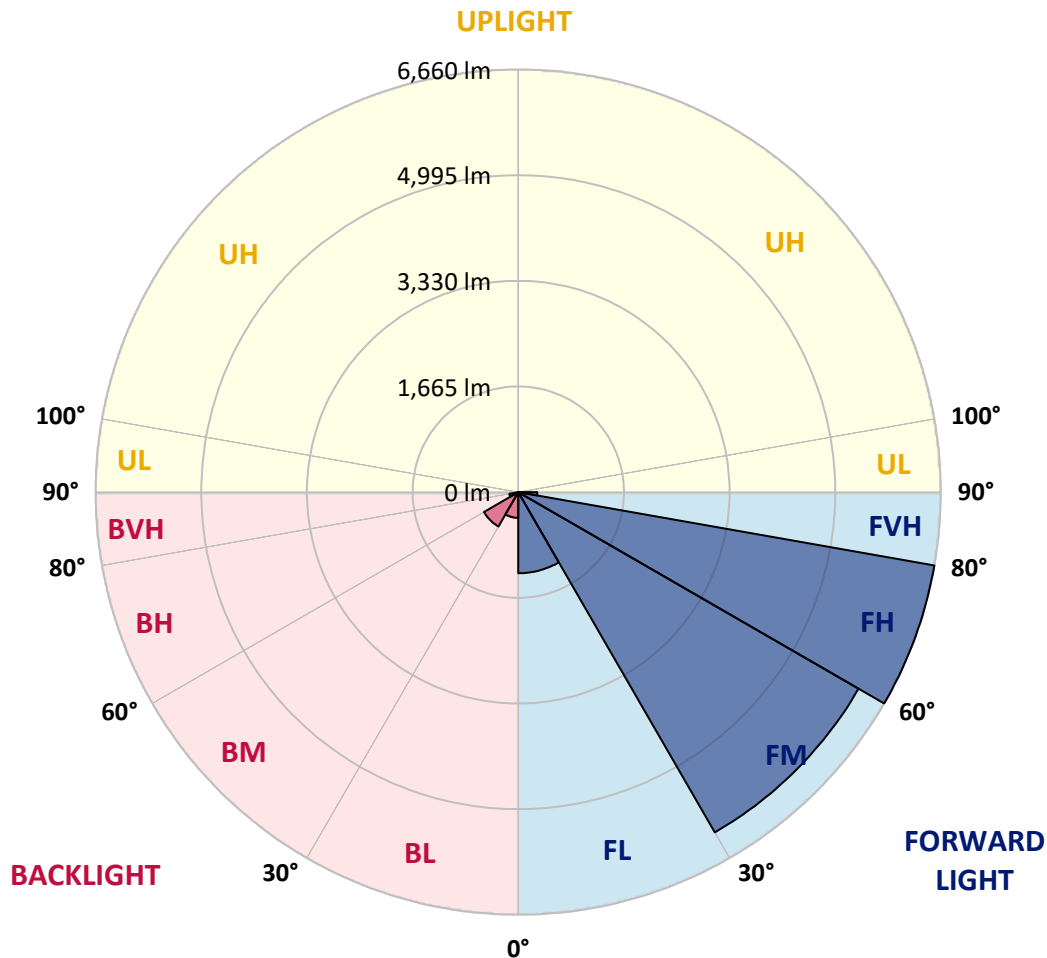
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1277.8	8.2			
FM (30°-60°)	6192.5	39.7			
FH (60°-80°)	6659.6	42.7			G3/7500
FVH (80°-90°)	300.9	1.9			G3/500
BL (0°-30°)	405.6	2.6	B1/500		
BM (30°-60°)	624.5	4.0	B1/1000		
BH (60°-80°)	141.4	0.9	B1/500		G1/500
BVH (80°-90°)	3.3	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°	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3
2.5°	2927.1	2955.7	2927.1	2914.8	2902.5	2904.6	2871.8	2878.0	2839.1	2787.9	2747.0
5°	3019.2	3058.1	3027.4	3013.1	3011.0	2972.1	2955.7	2916.8	2869.8	2789.9	2740.8
7.5°	3011.0	3002.8	3017.1	3004.9	2978.3	2978.3	2959.8	2904.6	2857.5	2767.4	2683.5
10°	2949.6	2974.2	2961.9	2947.6	2953.7	2955.7	2920.9	2882.1	2867.7	2777.7	2640.5
12.5°	2943.5	2902.5	2947.6	2949.6	2923.0	2920.9	2916.8	2906.6	2861.6	2779.7	2650.7
15°	2923.0	2906.6	2951.6	2953.7	2959.8	2953.7	2959.8	2951.6	2906.6	2859.5	2695.8
17.5°	2939.4	2920.9	2984.4	3015.1	3000.8	3029.4	3019.2	2982.3	2943.5	2888.2	2738.8
20°	2943.5	2970.1	3039.7	3051.9	3097.0	3049.9	3047.9	3009.0	2984.4	2925.0	2765.4
22.5°	3019.2	3031.5	3117.4	3144.1	3146.1	3140.0	3088.8	3043.8	3033.5	2959.8	2771.5
25°	3133.8	3176.8	3215.7	3232.1	3238.2	3209.6	3156.3	3099.0	3074.5	3027.4	2835.0
27.5°	3336.5	3309.9	3344.7	3369.2	3299.6	3309.9	3242.3	3193.2	3158.4	3117.4	2908.7
30°	3516.6	3492.0	3494.1	3490.0	3430.6	3375.4	3356.9	3271.0	3228.0	3244.4	3023.3
32.5°	3678.3	3625.1	3670.1	3649.6	3539.1	3522.7	3508.4	3399.9	3408.1	3483.8	3195.2
35°	3827.7	3809.3	3846.1	3809.3	3735.6	3731.5	3717.2	3623.0	3668.1	3776.6	3490.0
37.5°	3964.9	3971.0	4016.0	3997.6	4003.8	4007.9	3999.7	3899.4	4028.3	4271.9	3833.9
40°	4091.8	4083.6	4194.1	4251.4	4263.7	4308.7	4308.7	4284.2	4482.7	4757.0	4310.8
42.5°	4226.9	4247.3	4390.6	4486.8	4603.5	4642.4	4695.6	4707.9	5014.9	5328.1	4798.0
45°	4447.9	4413.1	4595.3	4822.5	4924.9	5062.0	5143.9	5213.5	5584.0	6013.8	5285.1
47.5°	4728.4	4658.8	4818.4	5148.0	5385.4	5498.0	5645.4	5737.5	6099.8	6544.0	5745.7
50°	5039.5	4967.9	5045.6	5500.1	5776.4	5981.1	6169.4	6286.1	6724.1	7137.6	6081.4
52.5°	5391.6	5326.1	5338.3	5866.4	6273.8	6423.2	6670.9	6844.9	7280.9	7495.8	6200.1
55°	5766.1	5749.8	5710.9	6224.7	6709.8	7045.5	7194.9	7403.7	7852.0	7690.2	6329.0
57.5°	6142.8	6091.6	6146.9	6699.5	7409.8	7610.4	7817.2	7942.0	8169.2	7860.1	6279.9
60°	6496.9	6501.0	6578.8	7215.4	8005.5	8290.0	8476.3	8400.5	8494.7	7933.8	6167.3
62.5°	6795.7	6787.6	6984.1	7794.6	8793.5	8985.9	9125.1	8787.4	8646.2	8005.5	5970.8
65°	7063.9	7156.0	7465.1	8484.4	9534.5	9755.6	9671.7	9153.8	8793.5	7794.6	5418.2
67.5°	7266.5	7403.7	7940.0	9133.3	10214.1	10369.7	10253.0	9432.2	8619.5	6967.7	4413.1
70°	7385.3	7524.4	8279.8	9673.7	10756.5	10869.1	10594.8	9217.2	7604.3	5045.6	2753.1
71°	7348.4	7518.3	8345.3	9731.0	10885.5	10969.4	10543.6	8820.1	6838.7	4224.8	2008.0
72.5°	7014.8	7174.4	8073.0	9690.1	10729.9	10678.7	10144.5	7866.3	5383.4	2693.7	1037.8
75°	5154.1	5326.1	6928.8	8382.1	9577.5	9225.4	8210.2	5520.5	2808.4	824.9	302.9
77.5°	2566.8	2595.5	4300.6	6085.5	7025.0	6675.0	5502.1	3078.6	1050.1	243.6	151.5
80°	1183.1	1191.3	1613.0	3152.2	4247.3	3997.6	3082.6	1518.8	474.9	129.0	118.7
82.5°	806.5	818.8	972.3	1305.9	1844.3	1555.7	1248.6	972.3	272.2	77.8	116.7
85°	147.4	135.1	544.5	691.9	712.3	483.1	431.9	841.3	102.3	45.0	102.3
87.5°	0.0	2.0	75.7	282.5	253.8	112.6	147.4	204.7	10.2	14.3	18.4
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°	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3	2716.3
2.5°	2712.2	2689.6	2613.9	2530.0	2454.2	2394.9	2319.2	2284.4	2229.1	2198.4	2196.3
5°	2673.3	2611.9	2480.9	2339.6	2182.0	2051.0	1905.7	1823.8	1729.6	1701.0	1694.8
7.5°	2607.8	2519.7	2327.3	2128.8	1887.3	1656.0	1477.9	1287.5	1170.8	1121.7	1103.3
10°	2566.8	2460.4	2198.4	1901.6	1563.8	1238.4	988.7	786.0	679.6	628.4	616.1
12.5°	2566.8	2452.2	2094.0	1684.6	1236.3	847.4	612.0	495.4	460.6	448.3	448.3
15°	2560.7	2435.8	1993.7	1461.5	915.0	569.0	456.5	431.9	427.8	425.8	423.7
17.5°	2591.4	2407.2	1891.3	1222.0	646.8	448.3	419.6	415.5	411.4	411.4	407.3
20°	2613.9	2390.8	1768.5	968.2	483.1	415.5	403.2	397.1	395.1	393.0	397.1
22.5°	2595.5	2366.2	1617.1	724.6	421.7	395.1	386.9	380.7	376.6	376.6	378.7
25°	2630.3	2343.7	1465.6	546.5	395.1	376.6	368.4	364.4	362.3	360.3	356.2
27.5°	2677.4	2353.9	1285.5	440.1	372.5	358.2	350.0	345.9	343.9	339.8	343.9
30°	2734.7	2351.9	1086.9	384.8	352.1	337.7	329.6	327.5	323.4	321.4	323.4
32.5°	2832.9	2405.1	882.2	356.2	329.6	317.3	309.1	307.0	305.0	302.9	300.9
35°	3043.8	2470.6	689.8	333.6	309.1	294.8	288.6	284.5	282.5	280.4	278.4
37.5°	3303.7	2616.0	526.1	313.2	288.6	274.3	268.1	266.1	257.9	255.9	253.8
40°	3629.2	2771.5	405.3	290.7	270.2	255.9	249.7	243.6	233.3	229.3	225.2
42.5°	4034.5	2923.0	333.6	270.2	249.7	239.5	229.3	219.0	210.8	202.6	198.6
45°	4439.8	3099.0	292.7	251.8	233.3	221.1	212.9	198.6	184.2	171.9	169.9
47.5°	4777.5	3162.5	268.1	231.3	217.0	206.7	194.5	176.0	155.6	143.3	141.2
50°	5029.3	3125.6	243.6	210.8	198.6	188.3	171.9	149.4	129.0	116.7	112.6
52.5°	5078.4	2963.9	221.1	194.5	180.1	167.8	149.4	124.9	102.3	90.1	88.0
55°	5043.6	2695.8	202.6	180.1	163.8	145.3	124.9	100.3	79.8	67.5	65.5
57.5°	4971.9	2378.5	182.2	161.7	143.3	124.9	102.3	81.9	59.4	47.1	47.1
60°	4728.4	1946.6	161.7	141.2	122.8	106.4	83.9	59.4	40.9	30.7	28.7
62.5°	4388.6	1496.3	141.2	120.8	106.4	88.0	65.5	43.0	24.6	16.4	16.4
65°	3768.4	1048.0	118.7	100.3	88.0	71.6	49.1	26.6	14.3	6.1	6.1
67.5°	2863.6	648.9	98.3	83.9	75.7	57.3	34.8	16.4	6.1	2.0	0.0
70°	1643.7	337.7	77.8	67.5	59.4	43.0	24.6	8.2	4.1	0.0	0.0
71°	1148.3	249.7	69.6	59.4	53.2	38.9	20.5	6.1	2.0	0.0	0.0
72.5°	575.2	165.8	59.4	49.1	43.0	30.7	16.4	6.1	2.0	0.0	0.0
75°	204.7	106.4	40.9	32.8	30.7	22.5	10.2	4.1	2.0	0.0	0.0
77.5°	141.2	86.0	28.7	20.5	20.5	14.3	6.1	2.0	2.0	0.0	0.0
80°	129.0	47.1	18.4	12.3	10.2	8.2	4.1	2.0	0.0	0.0	0.0
82.5°	129.0	34.8	10.2	8.2	6.1	4.1	2.0	0.0	0.0	0.0	0.0
85°	90.1	18.4	6.1	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	6.1	4.1	2.0	2.0	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)