

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: P484144

Luminaire Tested: **IFLD-M-SA4B-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

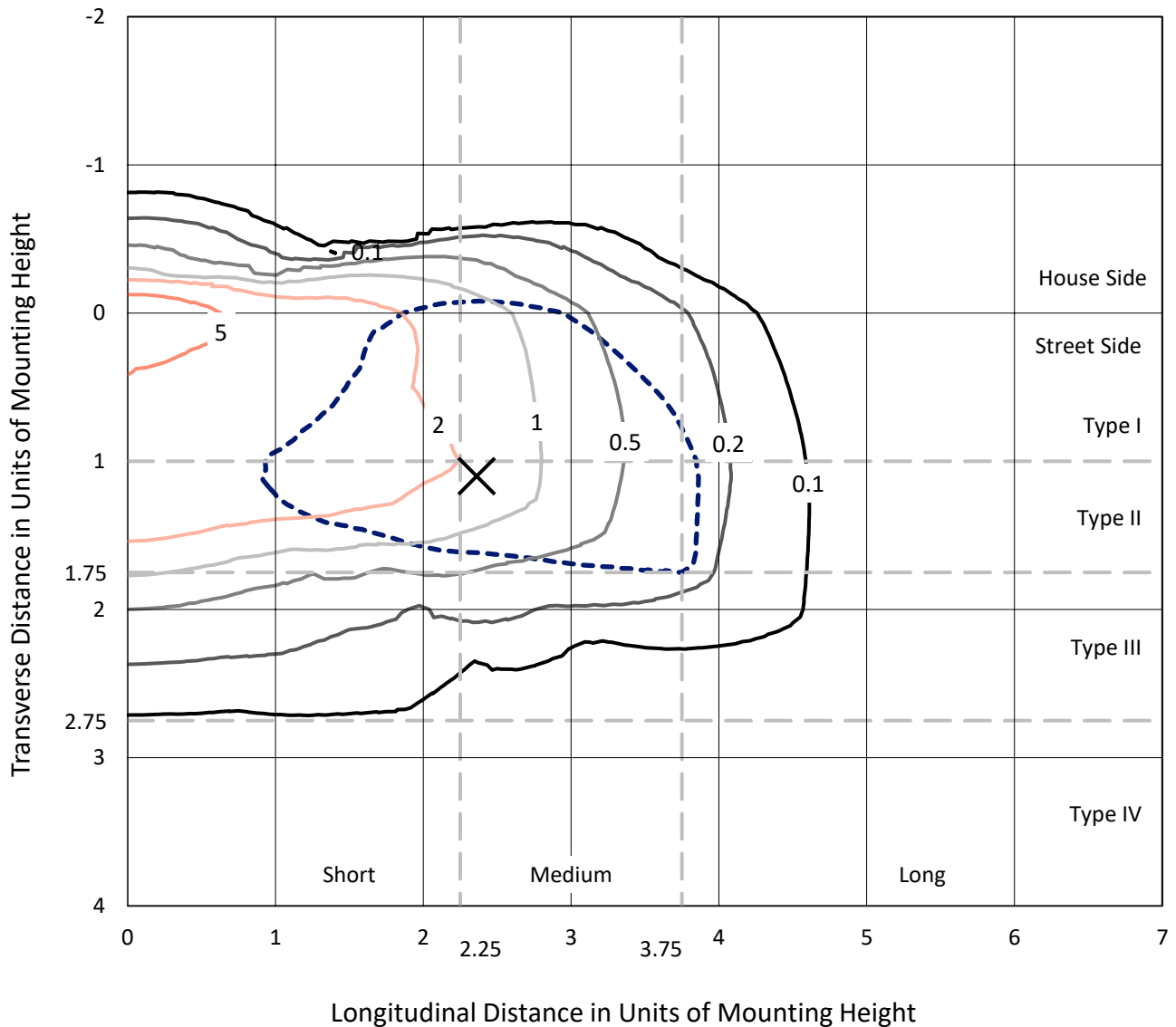
Lumens per Lamp: N/A
Luminaire Lumens: 13818.5 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 166.1
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

REPORT NUMBER: P484144
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

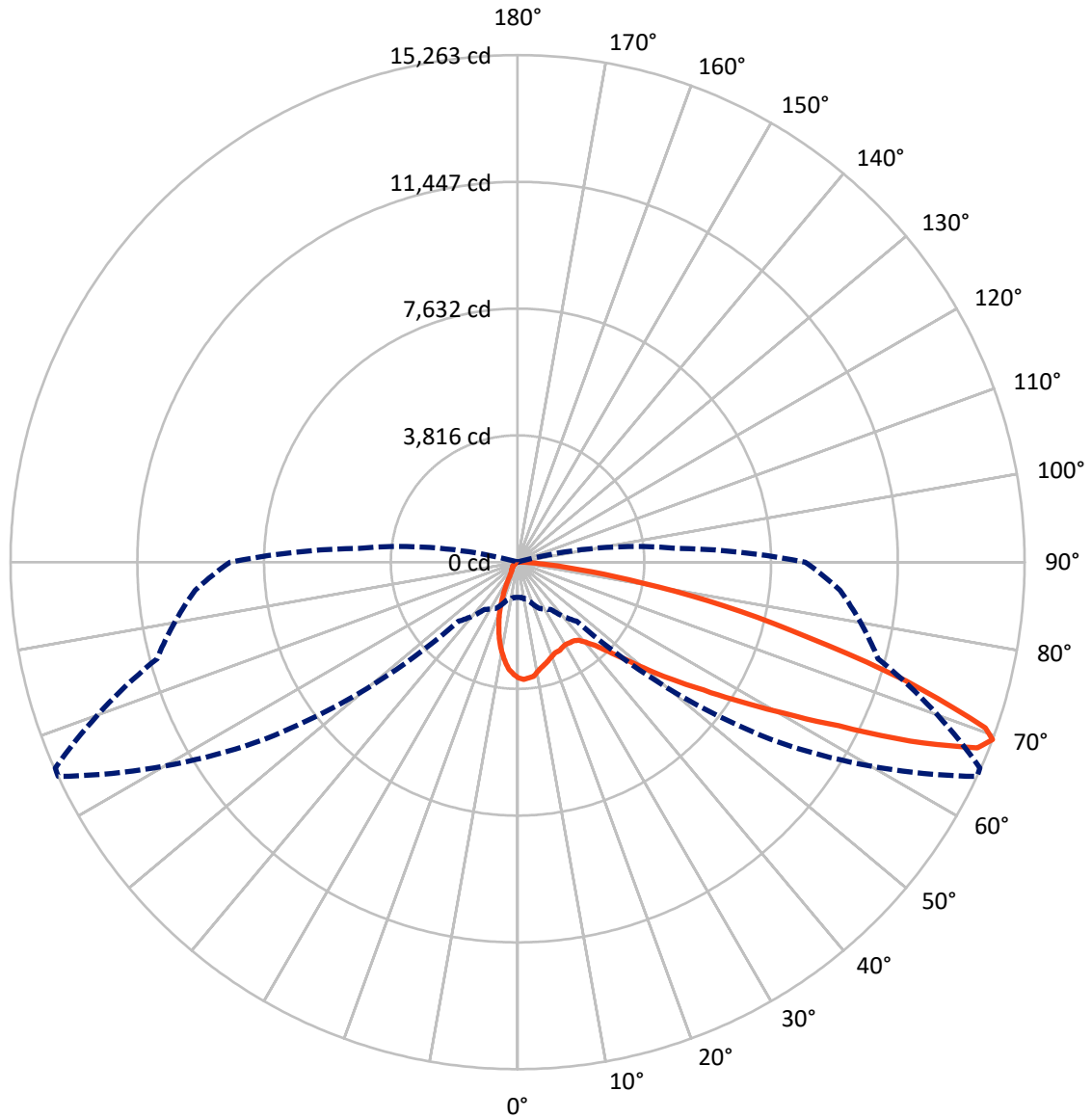
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P484144
CATALOG NUMBER: IFLD-M-SA4B-827-U-SL2-HSS

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	1676.3	0.0	1676.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12142.2	0.0	12142.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	13818.5	0.0	13818.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	2.1
10°-20°	623.8	4.5
20°-30°	868.5	6.3
30°-40°	1230.7	8.9
40°-50°	1939.5	14.0
50°-60°	3147.2	22.8
60°-70°	3514.8	25.4
70°-80°	1979.2	14.3
80°-90°	229.7	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°	13818.5	100.0
0°-180°	13818.5	100.0

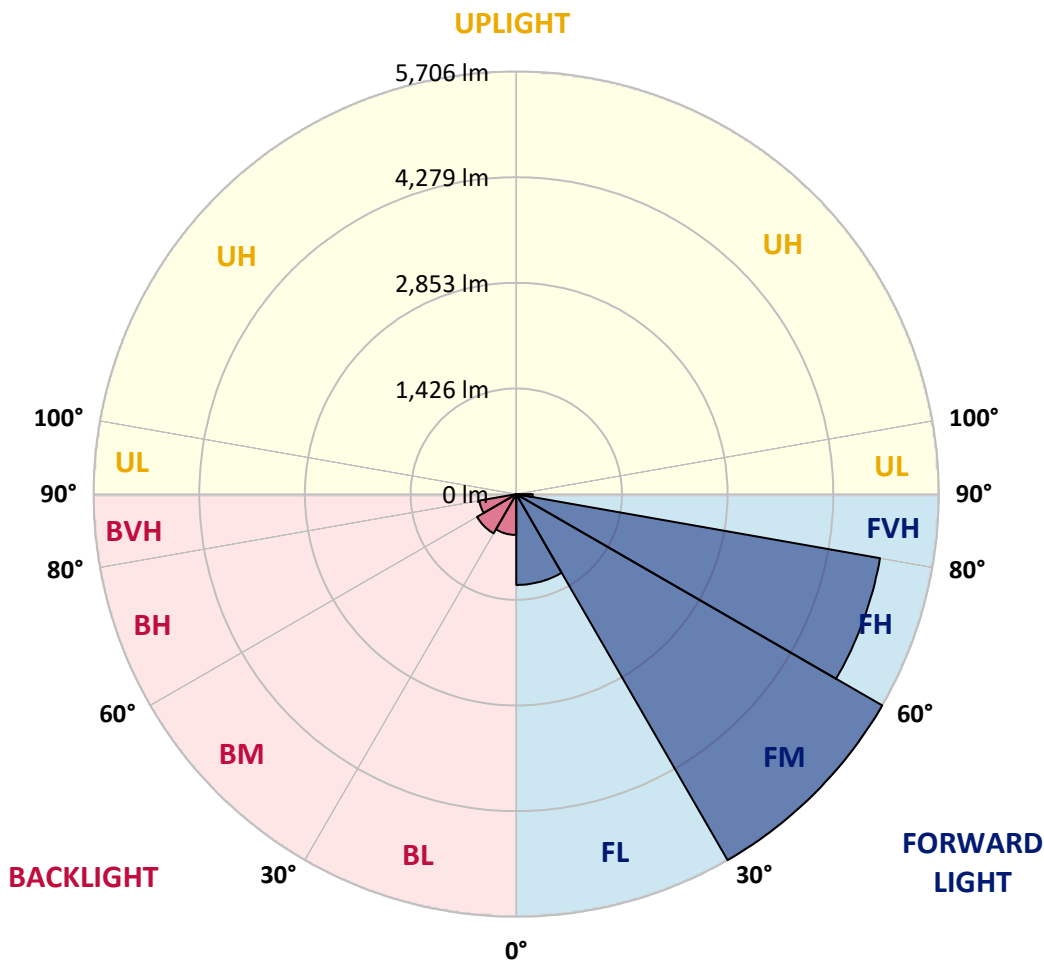


REPORT NUMBER: P484144
 CATALOG NUMBER: IFLD-M-SA4B-827-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.3	8.9			
FM (30°-60°)	5705.8	41.3			
FH (60°-80°)	4986.8	36.1			G2/5000
FVH (80°-90°)	223.3	1.6			G2/225
BL (0°-30°)	551.1	4.0	B2/1000		
BM (30°-60°)	611.7	4.4	B1/1000		
BH (60°-80°)	507.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





REPORT NUMBER: P484144

CATALOG NUMBER: IFLD-M-SA4B-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0
2.5°	3355.3	3381.4	3388.9	3415.0	3428.0	3484.0	3515.6	3534.3	3525.0	3545.5	3547.3
5°	3116.7	3101.8	3141.0	3168.9	3228.6	3325.5	3424.3	3500.7	3536.1	3569.7	3564.1
7.5°	2861.4	2853.9	2893.0	2956.4	3010.5	3127.9	3286.4	3474.6	3467.2	3549.2	3573.4
10°	2686.1	2693.6	2706.6	2770.0	2850.2	2969.5	3167.1	3342.3	3381.4	3554.8	3603.3
12.5°	2525.8	2538.9	2563.1	2628.3	2721.5	2844.6	3036.6	3241.6	3301.3	3523.1	3620.0
15°	2473.6	2443.8	2492.3	2540.7	2637.7	2747.6	2909.8	3165.2	3191.3	3485.8	3648.0
17.5°	2430.8	2412.1	2434.5	2473.6	2576.1	2665.6	2818.5	3083.2	3131.6	3470.9	3644.3
20°	2443.8	2427.0	2436.3	2466.2	2512.8	2596.7	2738.3	3004.9	3057.1	3401.9	3638.7
22.5°	2481.1	2494.1	2477.4	2484.8	2499.7	2542.6	2695.4	2949.0	2993.7	3388.9	3670.4
25°	2648.8	2626.5	2604.1	2594.8	2507.2	2525.8	2682.4	2945.2	2976.9	3342.3	3644.3
27.5°	2824.1	2805.4	2796.1	2742.1	2622.8	2566.8	2684.3	2893.0	2935.9	3323.6	3612.6
30°	3036.6	3060.8	3023.5	2958.3	2792.4	2654.4	2704.8	2866.9	2926.6	3252.8	3592.1
32.5°	3260.3	3273.3	3292.0	3243.5	3029.1	2786.8	2766.3	2891.2	2894.9	3252.8	3545.5
35°	3513.8	3495.1	3543.6	3547.3	3359.1	3021.7	2883.7	2908.0	2947.1	3237.9	3528.7
37.5°	3731.9	3763.6	3819.5	3909.0	3715.1	3353.5	3066.4	2986.2	3003.0	3306.9	3541.7
40°	3970.5	4002.2	4128.9	4218.4	4108.4	3726.3	3344.1	3168.9	3182.0	3409.4	3608.8
42.5°	4233.3	4294.8	4445.8	4602.4	4572.6	4199.8	3702.0	3437.4	3431.8	3664.8	3746.8
45°	4589.3	4671.4	4835.4	5016.2	5042.3	4742.2	4179.3	3838.1	3856.8	3998.4	4032.0
47.5°	5085.2	5081.5	5241.8	5443.1	5594.1	5305.2	4749.7	4376.8	4375.0	4526.0	4455.1
50°	5564.3	5566.1	5609.0	5842.0	6233.5	6086.2	5456.1	5092.6	5072.1	5146.7	5033.0
52.5°	5786.1	5760.0	5728.3	6009.8	6725.6	7070.4	6350.9	5903.5	5886.7	5842.0	5812.2
55°	5553.1	5562.4	5560.5	5853.2	6984.7	8108.7	7499.2	6796.4	6768.5	6628.6	6669.7
57.5°	4805.6	4775.8	4841.0	5297.7	6688.3	8817.1	9141.4	7922.3	7849.6	7385.5	7292.3
60°	3577.2	3586.5	3640.5	4179.3	5952.0	8966.2	10712.8	9243.9	8930.8	7918.6	7790.0
62.5°	2497.9	2479.2	2499.7	2801.7	4255.7	8369.7	11775.4	10850.8	10548.8	8524.4	8449.8
65°	1787.6	1763.4	1845.4	2030.0	2555.6	6399.4	11926.3	12990.7	12720.4	9491.9	9312.9
67.5°	1286.2	1282.5	1377.6	1713.1	1815.6	3685.3	10807.9	14929.4	14765.3	10640.1	9838.6
69°	1064.4	1066.2	1157.6	1534.1	1733.6	2516.5	9299.9	15263.0	15233.2	11232.9	9739.8
70°	928.3	935.8	1042.0	1427.9	1700.0	2069.1	8017.4	14935.0	14905.1	11348.5	9413.6
72.5°	572.3	577.9	717.7	1144.5	1616.2	1688.9	4794.4	12219.0	12321.5	10819.1	8110.6
75°	274.0	275.9	376.5	827.6	1558.4	1601.2	2568.7	9016.5	9232.8	8735.0	6337.8
77.5°	145.4	145.4	180.8	439.9	1262.0	1506.2	1524.8	6360.2	6539.2	5523.2	3603.3
80°	72.7	74.6	110.0	229.3	782.9	1476.3	1191.1	3793.4	3890.3	2253.7	1122.2
82.5°	28.0	29.8	52.2	137.9	406.4	1247.1	1045.7	1865.9	1841.7	527.5	274.0
85°	3.7	3.7	18.6	82.0	173.4	549.9	863.1	779.2	753.1	115.6	132.3
87.5°	0.0	0.0	3.7	24.2	52.2	160.3	333.7	214.4	238.6	31.7	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484144

CATALOG NUMBER: IFLD-M-SA4B-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0	3484.0
2.5°	3538.0	3498.9	3439.2	3381.4	3319.9	3245.4	3163.3	3133.5	3081.3	3077.6	3107.4
5°	3534.3	3470.9	3366.5	3243.5	3068.3	2935.9	2792.4	2688.0	2607.8	2555.6	2568.7
7.5°	3552.9	3476.5	3295.7	3031.0	2805.4	2542.6	2320.8	2167.9	2028.1	1959.1	1951.7
10°	3523.1	3420.6	3155.9	2784.9	2453.1	2085.9	1761.5	1556.5	1347.7	1271.3	1275.0
12.5°	3539.9	3396.3	3004.9	2531.4	2074.7	1597.5	1209.8	930.2	734.4	671.1	663.6
15°	3551.1	3344.1	2859.5	2227.6	1655.3	1088.6	700.9	527.5	466.0	454.8	453.0
17.5°	3508.2	3280.8	2654.4	1927.5	1226.6	661.7	466.0	430.6	419.4	412.0	408.2
20°	3506.3	3243.5	2477.4	1619.9	818.3	451.1	402.6	389.6	372.8	367.2	367.2
22.5°	3474.6	3165.2	2264.8	1282.5	521.9	387.7	361.6	341.1	322.5	315.0	313.2
25°	3465.3	3073.9	2065.4	963.7	397.0	346.7	320.6	290.8	268.4	257.2	251.6
27.5°	3439.2	2995.6	1864.1	678.5	346.7	309.4	275.9	244.2	218.1	201.3	199.5
30°	3346.0	2913.5	1640.4	469.7	315.0	274.0	236.7	199.5	173.4	162.2	158.4
32.5°	3306.9	2837.1	1396.2	361.6	287.1	242.3	199.5	165.9	145.4	134.2	132.3
35°	3260.3	2725.3	1159.5	315.0	261.0	210.6	167.8	139.8	123.0	113.7	113.7
37.5°	3265.9	2635.8	937.6	285.2	233.0	180.8	143.5	119.3	104.4	95.1	95.1
40°	3249.1	2565.0	728.9	259.1	206.9	154.7	121.2	100.7	87.6	78.3	76.4
42.5°	3325.5	2546.3	549.9	236.7	180.8	132.3	104.4	85.7	72.7	61.5	61.5
45°	3454.1	2576.1	428.7	216.2	154.7	113.7	89.5	70.8	57.8	50.3	48.5
47.5°	3797.1	2693.6	335.5	199.5	132.3	98.8	74.6	57.8	46.6	39.1	37.3
50°	4294.8	2956.4	285.2	175.2	111.8	83.9	61.5	44.7	37.3	29.8	28.0
52.5°	5003.2	3398.2	259.1	154.7	93.2	69.0	48.5	35.4	28.0	22.4	20.5
55°	5774.9	3950.0	234.9	130.5	78.3	55.9	39.1	28.0	20.5	14.9	13.0
57.5°	6377.0	4427.2	214.4	108.1	63.4	44.7	29.8	20.5	14.9	9.3	7.5
60°	7035.0	4762.7	188.3	85.7	52.2	33.6	22.4	14.9	11.2	5.6	5.6
62.5°	7713.5	5156.0	154.7	67.1	41.0	26.1	16.8	11.2	7.5	1.9	1.9
65°	8656.8	5463.6	119.3	52.2	31.7	18.6	13.0	9.3	3.7	0.0	0.0
67.5°	8923.3	5312.6	87.6	41.0	22.4	13.0	9.3	5.6	1.9	0.0	0.0
69°	8656.8	4785.1	76.4	35.4	18.6	11.2	7.5	3.7	1.9	0.0	0.0
70°	8170.2	4375.0	67.1	29.8	16.8	11.2	5.6	3.7	1.9	0.0	0.0
72.5°	6833.7	3355.3	52.2	22.4	13.0	9.3	5.6	3.7	0.0	0.0	0.0
75°	5012.5	2072.8	39.1	16.8	11.2	7.5	5.6	3.7	0.0	0.0	0.0
77.5°	2686.1	756.8	28.0	11.2	7.5	5.6	5.6	3.7	0.0	0.0	0.0
80°	736.3	223.7	20.5	7.5	5.6	3.7	3.7	1.9	0.0	0.0	0.0
82.5°	201.3	57.8	13.0	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	108.1	22.4	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	55.9	7.5	5.6	3.7	3.7	1.9	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)