

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: P484846

Luminaire Tested: **IFLD-M-SA4B-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484846
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

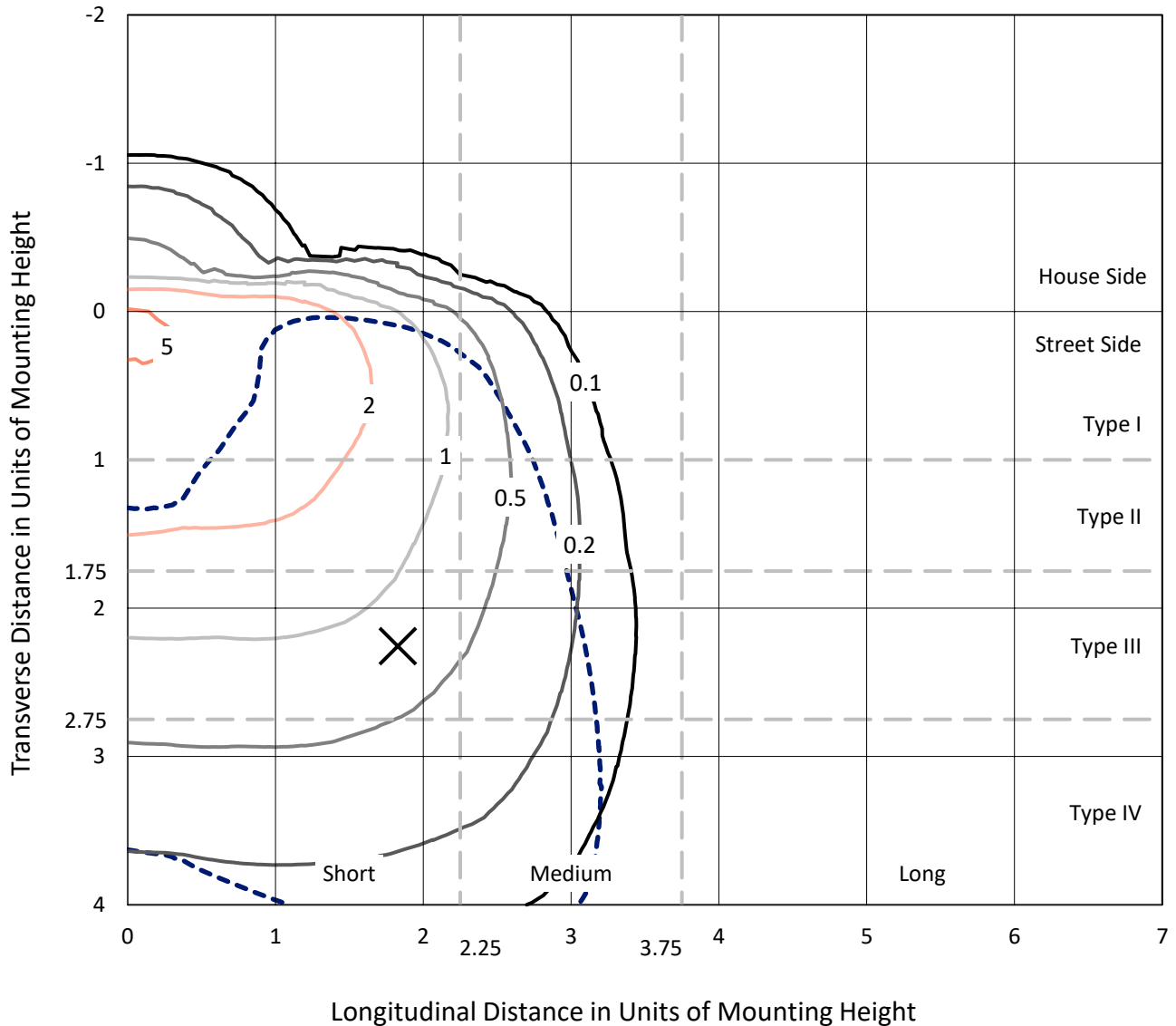
Lumens per Lamp: N/A
Luminaire Lumens: 19300.2 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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: P484846
 CATALOG NUMBER: IFLD-M-SA4B-750-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

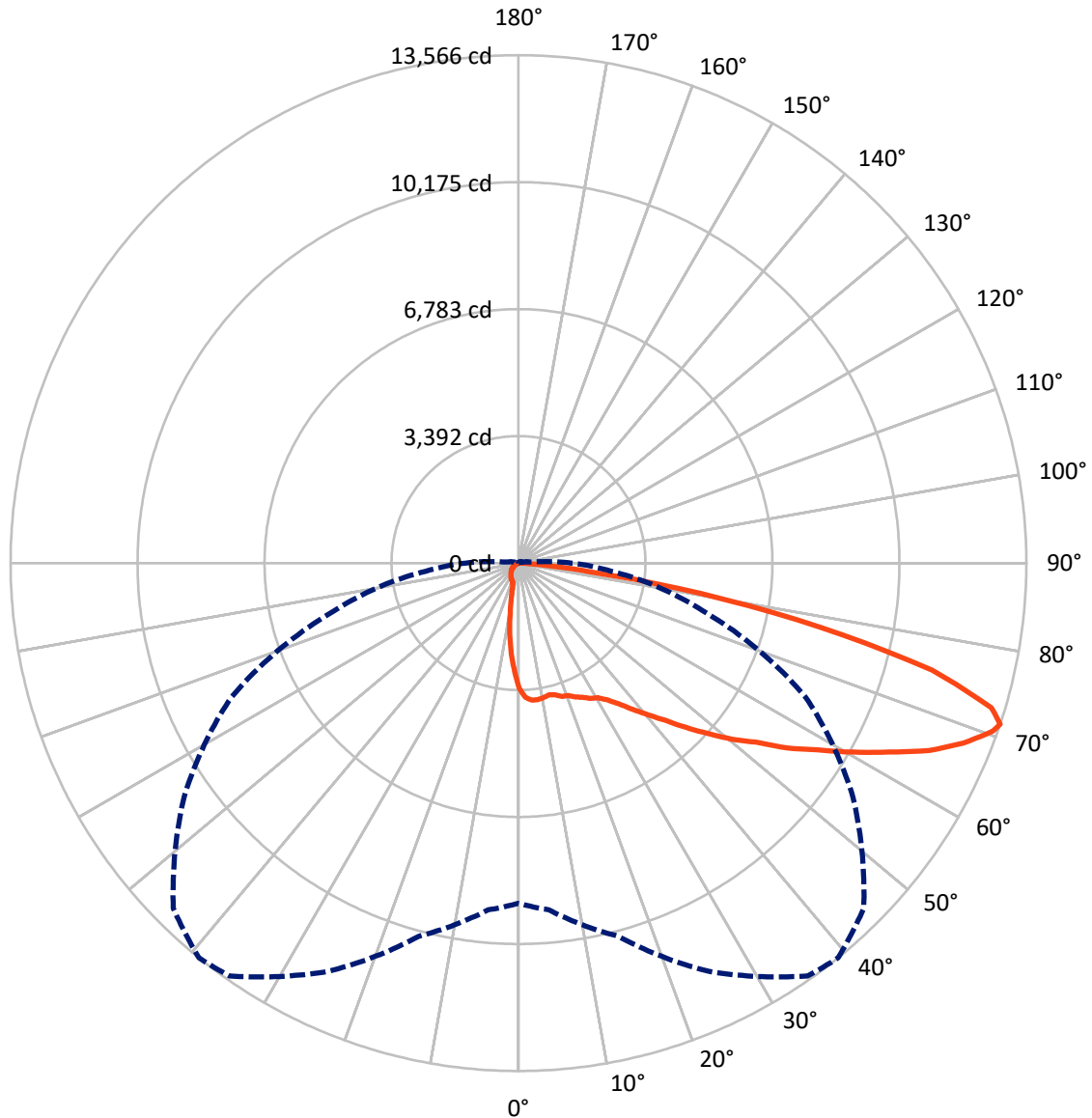
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P484846
CATALOG NUMBER: IFLD-M-SA4B-750-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484846
 CATALOG NUMBER: IFLD-M-SA4B-750-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1453.0	0.0	1453.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	17847.2	0.0	17847.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	19300.2	0.0	19300.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.5
10°-20°	691.3	3.6
20°-30°	1109.8	5.8
30°-40°	1698.8	8.8
40°-50°	2726.8	14.1
50°-60°	4005.3	20.8
60°-70°	5044.5	26.1
70°-80°	3366.6	17.4
80°-90°	376.2	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°	19300.2	100.0
0°-180°	19300.2	100.0



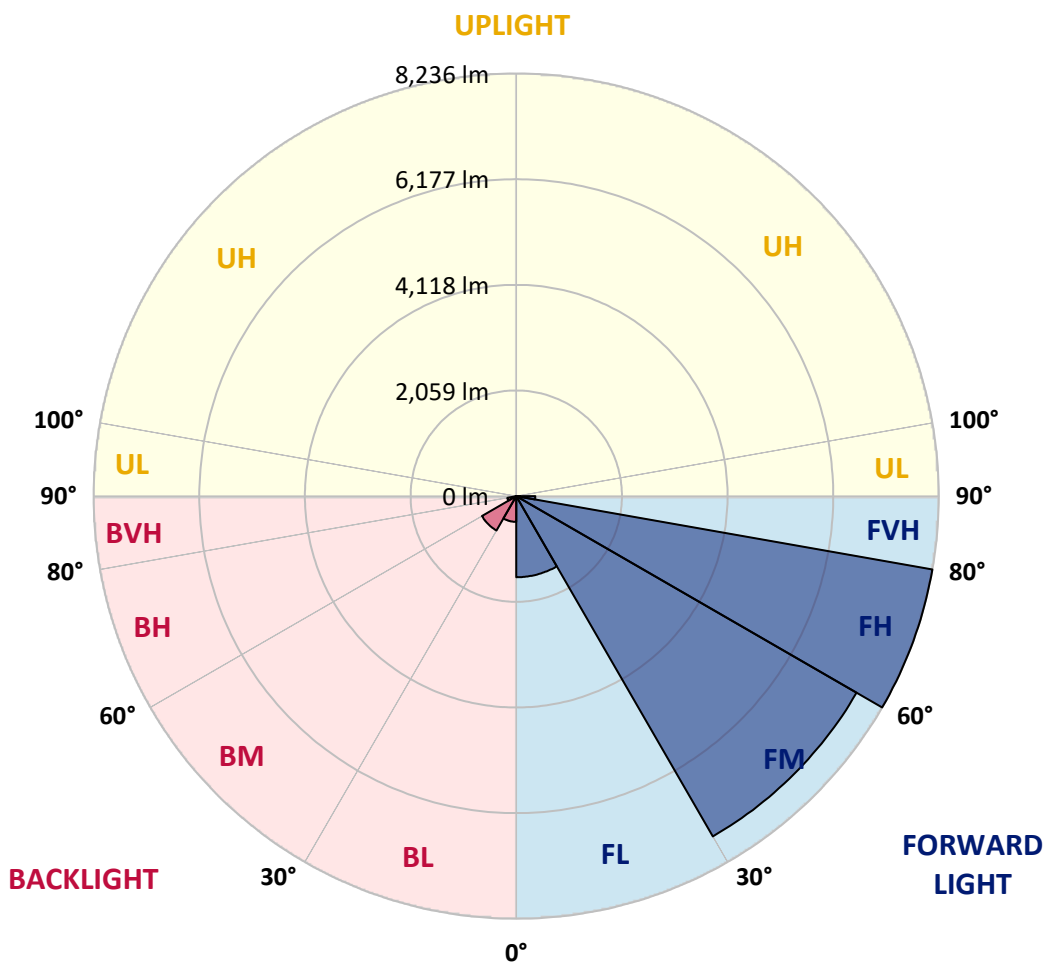
REPORT NUMBER: P484846
 CATALOG NUMBER: IFLD-M-SA4B-750-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.3	8.2			
FM (30°-60°)	7658.6	39.7			
FH (60°-80°)	8236.2	42.7			G4/12000
FVH (80°-90°)	372.1	1.9			G3/500
BL (0°-30°)	501.6	2.6	B2/1000		
BM (30°-60°)	772.3	4.0	B1/1000		
BH (60°-80°)	174.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	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-G4

Type IV Short





REPORT NUMBER: P484846

CATALOG NUMBER: IFLD-M-SA4B-750-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3
2.5°	3620.1	3655.5	3620.1	3604.9	3589.7	3592.2	3551.7	3559.3	3511.2	3447.9	3397.3
5°	3734.0	3782.1	3744.1	3726.4	3723.9	3675.8	3655.5	3607.4	3549.2	3450.4	3389.7
7.5°	3723.9	3713.7	3731.4	3716.3	3683.3	3683.3	3660.6	3592.2	3534.0	3422.6	3318.8
10°	3647.9	3678.3	3663.1	3645.4	3653.0	3655.5	3612.5	3564.4	3546.6	3435.3	3265.6
12.5°	3640.3	3589.7	3645.4	3647.9	3615.0	3612.5	3607.4	3594.7	3539.1	3437.8	3278.3
15°	3615.0	3594.7	3650.4	3653.0	3660.6	3653.0	3660.6	3650.4	3594.7	3536.5	3334.0
17.5°	3635.2	3612.5	3690.9	3728.9	3711.2	3746.6	3734.0	3688.4	3640.3	3572.0	3387.2
20°	3640.3	3673.2	3759.3	3774.5	3830.2	3771.9	3769.4	3721.3	3690.9	3617.5	3420.1
22.5°	3734.0	3749.2	3855.5	3888.4	3890.9	3883.3	3820.0	3764.4	3751.7	3660.6	3427.7
25°	3875.7	3928.9	3977.0	3997.3	4004.8	3969.4	3903.6	3832.7	3802.3	3744.1	3506.1
27.5°	4126.4	4093.5	4136.5	4166.9	4080.8	4093.5	4009.9	3949.2	3906.1	3855.5	3597.3
30°	4349.1	4318.8	4321.3	4316.2	4242.8	4174.5	4151.7	4045.4	3992.2	4012.4	3739.0
32.5°	4549.1	4483.3	4539.0	4513.7	4377.0	4356.7	4339.0	4204.8	4215.0	4308.6	3951.7
35°	4733.9	4711.1	4756.7	4711.1	4620.0	4614.9	4597.2	4480.8	4536.5	4670.6	4316.2
37.5°	4903.5	4911.1	4966.8	4944.0	4951.6	4956.7	4946.6	4822.5	4982.0	5283.3	4741.5
40°	5060.5	5050.4	5187.1	5257.9	5273.1	5328.8	5328.8	5298.4	5544.0	5883.2	5331.4
42.5°	5227.6	5252.9	5430.1	5549.1	5693.4	5741.5	5807.3	5822.5	6202.2	6589.5	5933.9
45°	5501.0	5457.9	5683.2	5964.2	6090.8	6260.4	6361.7	6447.8	6906.0	7437.6	6536.4
47.5°	5847.8	5761.7	5959.2	6366.7	6660.4	6799.6	6981.9	7095.8	7543.9	8093.2	7105.9
50°	6232.6	6144.0	6240.2	6802.2	7143.9	7397.1	7630.0	7774.3	8316.0	8827.4	7521.1
52.5°	6668.0	6587.0	6602.2	7255.3	7759.1	7943.9	8250.2	8465.4	9004.6	9270.4	7667.9
55°	7131.3	7111.0	7062.9	7698.3	8298.3	8713.5	8898.3	9156.5	9710.9	9510.9	7827.4
57.5°	7597.1	7533.8	7602.1	8285.6	9164.1	9412.2	9667.8	9822.3	10103.3	9721.0	7766.7
60°	8035.0	8040.1	8136.3	8923.6	9900.7	10252.6	10483.0	10389.3	10505.8	9812.1	7627.4
62.5°	8404.6	8394.5	8637.5	9640.0	10875.4	11113.3	11285.5	10867.8	10693.1	9900.7	7384.4
65°	8736.2	8850.2	9232.4	10493.1	11791.8	12065.2	11961.4	11320.9	10875.4	9640.0	6700.9
67.5°	8986.9	9156.5	9819.7	11295.6	12632.2	12824.6	12680.3	11665.2	10660.2	8617.3	5457.9
70°	9133.7	9305.8	10240.0	11963.9	13303.1	13442.3	13103.1	11399.4	9404.6	6240.2	3404.9
71°	9088.1	9298.2	10321.0	12034.8	13462.6	13566.4	13039.8	10908.3	8457.8	5225.0	2483.4
72.5°	8675.5	8872.9	9984.3	11984.2	13270.2	13206.9	12546.2	9728.6	6657.9	3331.5	1283.5
75°	6374.3	6587.0	8569.2	10366.5	11844.9	11409.5	10153.9	6827.5	3473.2	1020.2	374.7
77.5°	3174.5	3210.0	5318.7	7526.2	8688.1	8255.3	6804.7	3807.4	1298.7	301.2	187.3
80°	1463.2	1473.3	1994.8	3898.5	5252.9	4944.0	3812.5	1878.4	587.3	159.5	146.8
82.5°	997.4	1012.6	1202.5	1615.1	2280.9	1923.9	1544.2	1202.5	336.7	96.2	144.3
85°	182.3	167.1	673.4	855.7	881.0	597.4	534.1	1040.5	126.6	55.7	126.6
87.5°	0.0	2.5	93.7	349.3	313.9	139.2	182.3	253.2	12.7	17.7	22.8
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: P484846

CATALOG NUMBER: IFLD-M-SA4B-750-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3
2.5°	3354.2	3326.4	3232.7	3128.9	3035.3	2961.9	2868.2	2825.2	2756.8	2718.8	2716.3
5°	3306.2	3230.2	3068.2	2893.5	2698.6	2536.6	2356.8	2255.6	2139.1	2103.7	2096.1
7.5°	3225.1	3116.3	2878.3	2632.8	2334.1	2048.0	1827.7	1592.3	1448.0	1387.3	1364.5
10°	3174.5	3042.9	2718.8	2351.8	1934.1	1531.6	1222.7	972.1	840.5	777.2	762.0
12.5°	3174.5	3032.7	2589.7	2083.4	1529.0	1048.0	756.9	612.6	569.6	554.4	554.4
15°	3166.9	3012.5	2465.7	1807.5	1131.6	703.8	564.5	534.1	529.1	526.6	524.0
17.5°	3204.9	2977.1	2339.1	1511.3	800.0	554.4	519.0	513.9	508.8	508.8	503.8
20°	3232.7	2956.8	2187.2	1197.4	597.4	513.9	498.7	491.1	488.6	486.0	491.1
22.5°	3210.0	2926.4	1999.9	896.2	521.5	488.6	478.5	470.9	465.8	465.8	468.3
25°	3253.0	2898.6	1812.6	675.9	488.6	465.8	455.7	450.6	448.1	445.5	440.5
27.5°	3311.2	2911.2	1589.8	544.3	460.7	443.0	432.9	427.8	425.3	420.2	425.3
30°	3382.1	2908.7	1344.2	475.9	435.4	417.7	407.6	405.0	400.0	397.4	400.0
32.5°	3503.6	2974.5	1091.1	440.5	407.6	392.4	382.3	379.7	377.2	374.7	372.1
35°	3764.4	3055.5	853.1	412.6	382.3	364.5	356.9	351.9	349.3	346.8	344.3
37.5°	4085.9	3235.3	650.6	387.3	356.9	339.2	331.6	329.1	319.0	316.4	313.9
40°	4488.4	3427.7	501.2	359.5	334.2	316.4	308.8	301.2	288.6	283.5	278.5
42.5°	4989.6	3615.0	412.6	334.2	308.8	296.2	283.5	270.9	260.7	250.6	245.6
45°	5490.8	3832.7	362.0	311.4	288.6	273.4	263.3	245.6	227.8	212.6	210.1
47.5°	5908.5	3911.2	331.6	286.1	268.3	255.7	240.5	217.7	192.4	177.2	174.7
50°	6219.9	3865.6	301.2	260.7	245.6	232.9	212.6	184.8	159.5	144.3	139.2
52.5°	6280.7	3665.6	273.4	240.5	222.8	207.6	184.8	154.4	126.6	111.4	108.9
55°	6237.6	3334.0	250.6	222.8	202.5	179.7	154.4	124.0	98.7	83.5	81.0
57.5°	6149.0	2941.6	225.3	200.0	177.2	154.4	126.6	101.3	73.4	58.2	58.2
60°	5847.8	2407.5	200.0	174.7	151.9	131.6	103.8	73.4	50.6	38.0	35.4
62.5°	5427.6	1850.5	174.7	149.4	131.6	108.9	81.0	53.2	30.4	20.3	20.3
65°	4660.5	1296.1	146.8	124.0	108.9	88.6	60.8	32.9	17.7	7.6	7.6
67.5°	3541.6	802.5	121.5	103.8	93.7	70.9	43.0	20.3	7.6	2.5	0.0
70°	2032.8	417.7	96.2	83.5	73.4	53.2	30.4	10.1	5.1	0.0	0.0
71°	1420.2	308.8	86.1	73.4	65.8	48.1	25.3	7.6	2.5	0.0	0.0
72.5°	711.4	205.1	73.4	60.8	53.2	38.0	20.3	7.6	2.5	0.0	0.0
75°	253.2	131.6	50.6	40.5	38.0	27.8	12.7	5.1	2.5	0.0	0.0
77.5°	174.7	106.3	35.4	25.3	25.3	17.7	7.6	2.5	2.5	0.0	0.0
80°	159.5	58.2	22.8	15.2	12.7	10.1	5.1	2.5	0.0	0.0	0.0
82.5°	159.5	43.0	12.7	10.1	7.6	5.1	2.5	0.0	0.0	0.0	0.0
85°	111.4	22.8	7.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	7.6	5.1	2.5	2.5	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)