

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: P483530

Luminaire Tested: **IFLD-L-SA8B-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483530
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

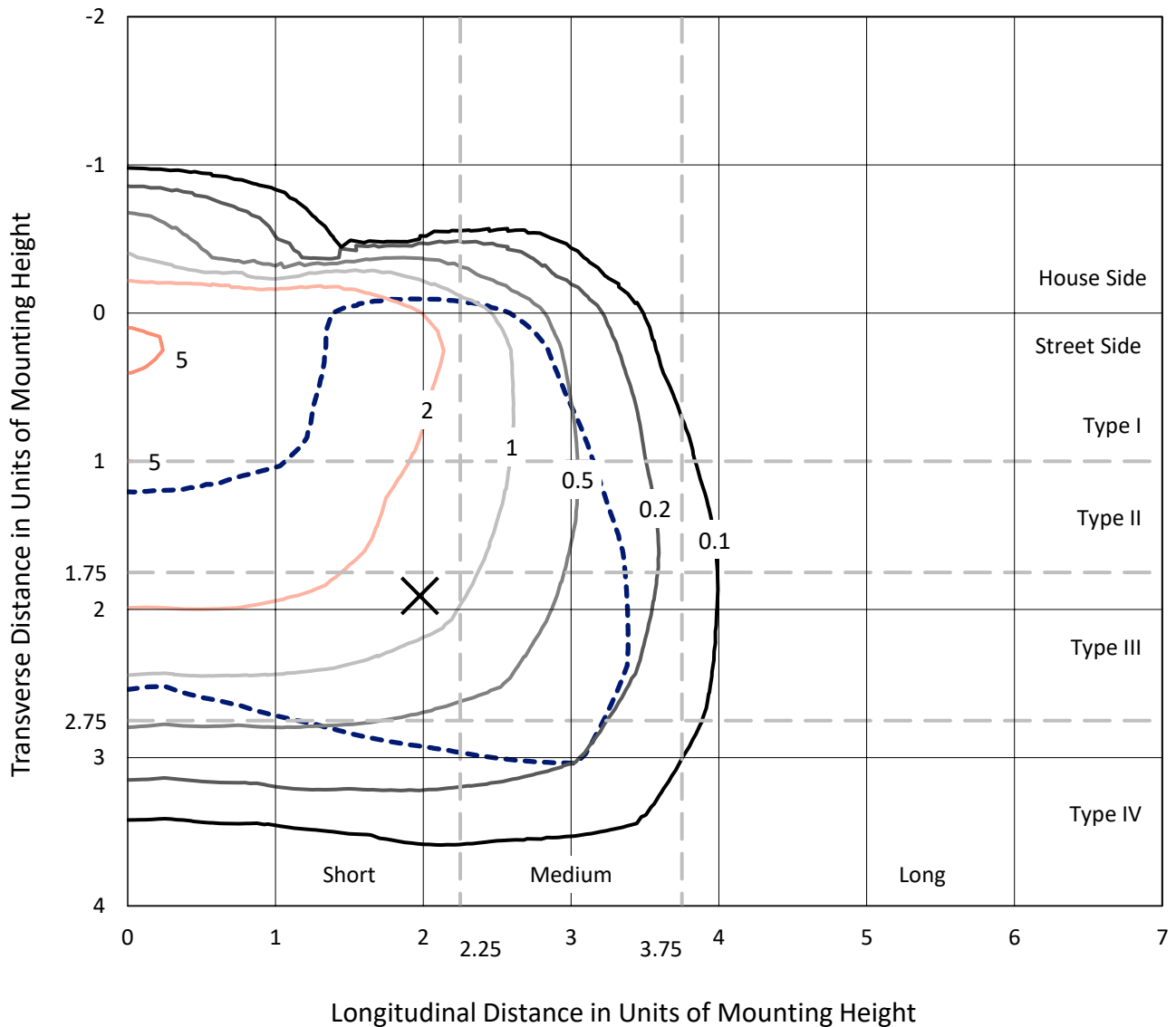
Lumens per Lamp: N/A
Luminaire Lumens: 25113.2 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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: P483530
 CATALOG NUMBER: IFLD-L-SA8B-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

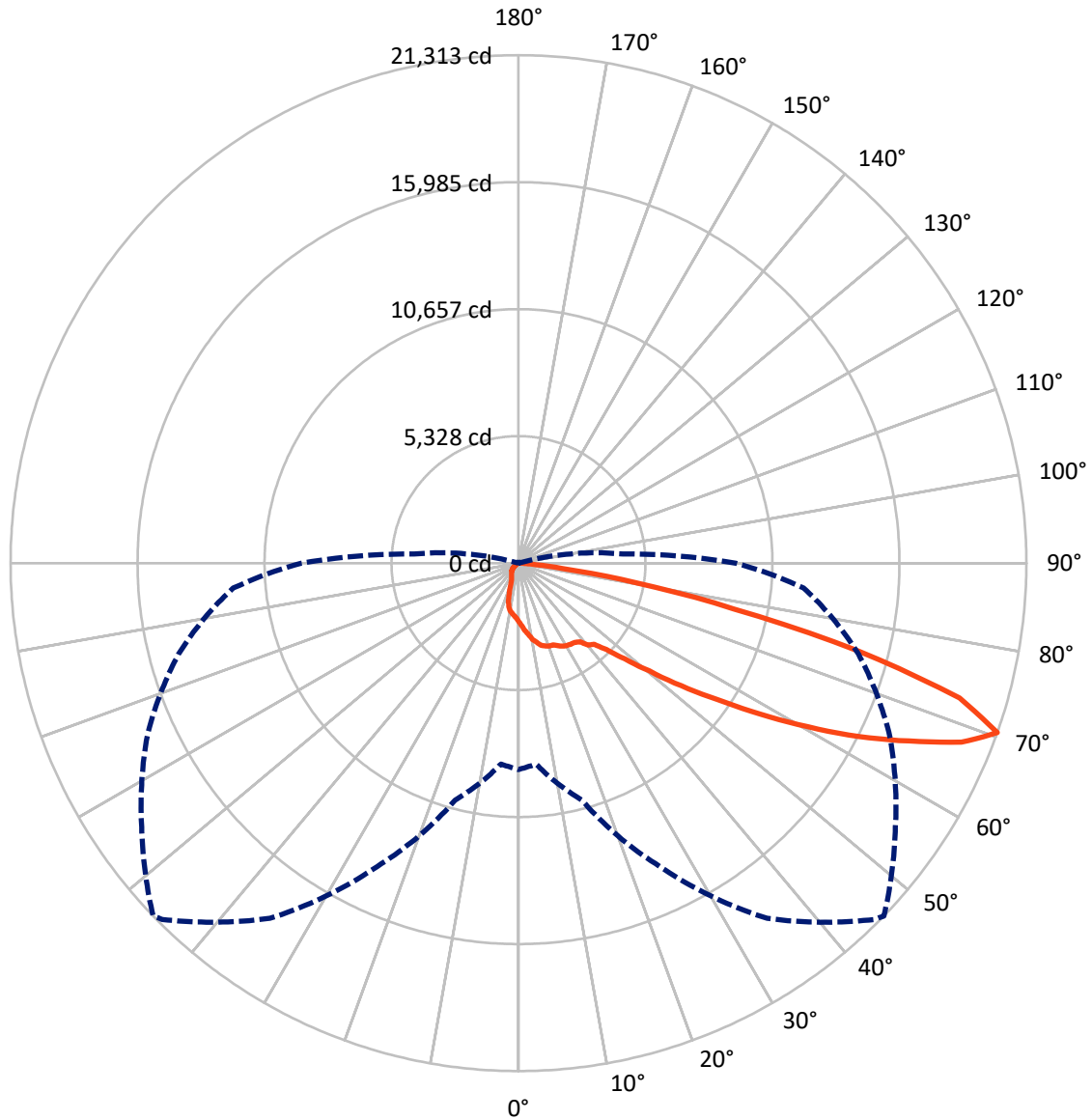
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P483530
CATALOG NUMBER: IFLD-L-SA8B-727-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483530
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2498.8	0.0	2498.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	22614.4	0.0	22614.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	25113.2	0.0	25113.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	1.0
10°-20°	742.4	3.0
20°-30°	1189.1	4.7
30°-40°	1697.3	6.8
40°-50°	2930.8	11.7
50°-60°	5611.2	22.3
60°-70°	8309.3	33.1
70°-80°	4115.5	16.4
80°-90°	271.9	1.1
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°	25113.2	100.0
0°-180°	25113.2	100.0

Coefficient of Utilization



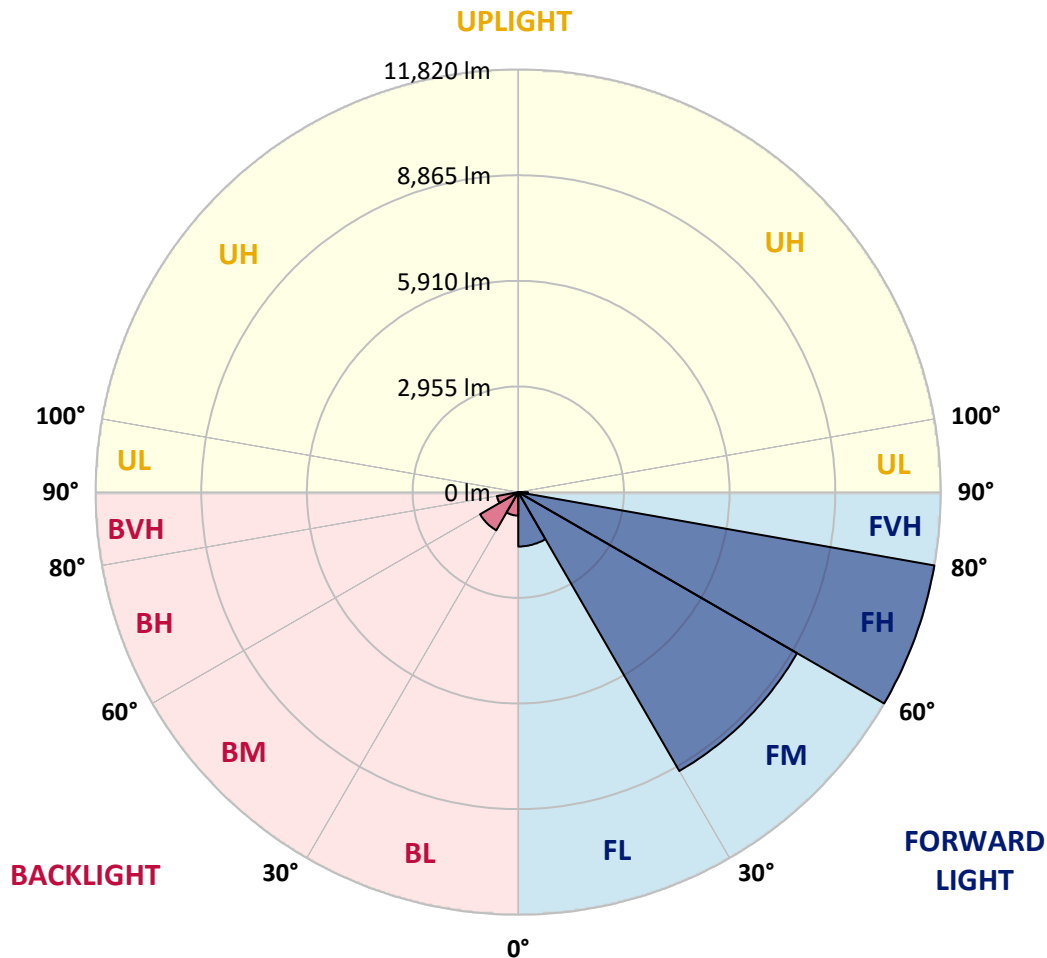
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 CATALOG NUMBER: IFLD-L-SA8B-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1520.8	6.1			
FM (30°-60°)	9005.5	35.9			
FH (60°-80°)	11819.6	47.1			G4/12000
FVH (80°-90°)	268.5	1.1			G3/500
BL (0°-30°)	656.5	2.6	B2/1000		
BM (30°-60°)	1233.7	4.9	B2/2500		
BH (60°-80°)	605.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.5	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: P483530

CATALOG NUMBER: IFLD-L-SA8B-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3
2.5°	2750.9	2732.8	2703.9	2693.1	2664.2	2649.7	2628.0	2617.2	2577.4	2537.6	2512.3
5°	3087.1	3043.7	3058.2	3014.8	2920.8	2844.9	2841.3	2758.1	2667.8	2595.5	2497.9
7.5°	3426.9	3390.7	3336.5	3275.1	3170.2	3058.2	3025.6	2946.1	2819.6	2693.1	2562.9
10°	3683.5	3658.2	3611.2	3524.5	3379.9	3253.4	3257.0	3123.2	2989.5	2844.9	2667.8
12.5°	3842.6	3853.4	3784.8	3698.0	3571.5	3412.4	3408.8	3318.4	3166.6	3014.8	2805.1
15°	4001.6	4041.4	3936.6	3835.4	3672.7	3557.0	3578.7	3470.3	3322.1	3148.5	2917.2
17.5°	4027.0	4037.8	4016.1	3867.9	3748.6	3651.0	3654.6	3582.3	3470.3	3282.3	3083.5
20°	3983.6	3976.3	3951.0	3842.6	3763.1	3705.2	3708.8	3690.8	3629.3	3477.5	3206.4
22.5°	3857.1	3857.1	3824.5	3752.2	3716.1	3770.3	3726.9	3795.6	3730.5	3640.2	3416.0
25°	3755.8	3795.6	3777.5	3730.5	3745.0	3817.3	3839.0	3904.0	3893.2	3781.1	3560.6
27.5°	3864.3	3817.3	3828.1	3773.9	3828.1	3936.6	3947.4	3994.4	3990.8	3900.4	3690.8
30°	3936.6	3980.0	3896.8	3777.5	3835.4	4019.7	4012.5	4073.9	4102.9	3994.4	3813.7
32.5°	4167.9	4131.8	4063.1	3904.0	3911.3	4016.1	4048.6	4128.2	4146.2	4081.2	3933.0
35°	4641.5	4587.3	4287.2	4048.6	4012.5	4063.1	4084.8	4240.2	4272.8	4200.5	4059.5
37.5°	5371.7	5248.8	4887.3	4359.5	4196.9	4186.0	4186.0	4392.1	4515.0	4348.7	4247.5
40°	6416.4	6242.9	5852.5	4934.3	4439.0	4482.4	4525.8	4637.9	4623.4	4515.0	4493.3
42.5°	7746.6	7612.9	7190.0	5899.5	4901.8	4684.9	4648.7	4800.5	5028.3	4984.9	4970.4
45°	8856.4	8863.6	8592.5	7222.5	5700.6	5151.2	5176.5	5292.2	5675.3	5642.8	5639.2
47.5°	9666.1	9564.9	9525.2	8498.5	6864.6	6036.8	6000.7	6080.2	6579.0	6785.1	6879.1
50°	10403.6	10334.9	10240.9	9738.4	8263.6	7146.6	7110.4	7117.7	7880.4	8169.6	8400.9
52.5°	11318.1	11404.9	11094.0	10786.7	10074.6	8588.9	8549.1	8408.2	9355.3	9752.9	10027.6
55°	12446.0	12283.3	11932.7	12091.7	11806.1	10146.9	10074.6	9908.3	11036.2	11202.5	11491.6
57.5°	12695.4	12572.5	12934.0	13497.9	13772.6	11976.0	11947.1	11647.1	12449.6	12297.8	13114.7
60°	13317.1	13349.7	13852.1	14972.7	15449.9	14087.1	13946.1	13418.4	13819.6	13848.5	14719.7
62.5°	13957.0	13881.1	15005.3	16082.5	16816.3	16086.1	16039.1	14990.8	15446.3	15077.6	16230.7
65°	13487.0	13602.7	15211.3	17015.1	18587.6	18041.8	18002.0	16505.5	16754.9	16295.8	16845.2
67.5°	11817.0	11582.0	13834.1	16588.6	19498.6	20091.4	20048.0	18157.4	17492.3	16288.6	15569.2
70°	8661.2	8458.8	10295.1	14047.3	18193.6	21139.7	21313.2	19307.0	17192.3	14770.3	12012.2
72.5°	4243.8	4247.5	5769.3	9525.2	14394.4	19267.2	19354.0	17702.0	14770.3	10888.0	6803.2
75°	1254.4	1268.8	2136.4	4670.4	9304.6	14633.0	14730.6	13436.4	10237.3	5624.7	2320.7
77.5°	459.1	459.1	708.5	1753.2	4641.5	9236.0	9228.7	8249.1	5183.7	1905.0	542.2
80°	238.6	249.4	368.7	715.7	2009.9	4811.4	4992.1	4037.8	1970.1	802.5	159.1
82.5°	97.6	108.4	202.4	368.7	965.2	1688.1	1847.2	1583.3	856.7	560.3	72.3
85°	28.9	32.5	97.6	206.0	379.6	422.9	469.9	531.4	538.6	433.8	32.5
87.5°	3.6	3.6	39.8	68.7	83.1	90.4	104.8	104.8	274.7	303.6	18.1
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: P483530

CATALOG NUMBER: IFLD-L-SA8B-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3	2465.3
2.5°	2483.4	2465.3	2436.4	2371.3	2356.9	2309.9	2306.3	2262.9	2277.4	2248.4	2237.6
5°	2465.3	2425.6	2346.0	2295.4	2244.8	2212.3	2190.6	2172.5	2168.9	2154.5	2147.2
7.5°	2497.9	2443.6	2320.7	2241.2	2154.5	2125.5	2078.5	2074.9	2049.6	2024.3	2024.3
10°	2606.3	2508.7	2375.0	2241.2	2129.2	2035.2	1926.7	1847.2	1818.3	1753.2	1760.4
12.5°	2693.1	2606.3	2411.1	2273.7	2103.8	1890.6	1652.0	1467.6	1380.9	1297.7	1330.3
15°	2816.0	2689.5	2479.8	2281.0	2006.2	1637.5	1247.1	1041.1	961.6	943.5	939.9
17.5°	2949.7	2816.0	2566.6	2262.9	1807.4	1265.2	918.2	798.9	813.3	835.0	831.4
20°	3097.9	2935.3	2631.6	2201.4	1492.9	918.2	751.9	748.3	770.0	802.5	809.7
22.5°	3253.4	3112.4	2711.1	2017.1	1113.4	737.4	723.0	723.0	737.4	777.2	770.0
25°	3426.9	3238.9	2750.9	1731.5	798.9	679.6	686.8	701.3	708.5	741.0	744.7
27.5°	3560.6	3379.9	2761.8	1388.1	650.7	629.0	647.1	665.1	676.0	701.3	712.1
30°	3683.5	3557.0	2703.9	1033.8	596.5	585.6	592.8	618.1	639.8	661.5	661.5
32.5°	3839.0	3658.2	2570.2	733.8	563.9	545.8	542.2	553.1	578.4	603.7	603.7
35°	3998.0	3828.1	2356.9	589.2	535.0	509.7	495.2	484.4	495.2	513.3	527.8
37.5°	4229.4	4084.8	2089.4	542.2	513.3	477.2	448.2	422.9	404.9	401.2	412.1
40°	4558.3	4374.0	1746.0	509.7	488.0	444.6	401.2	357.9	318.1	292.8	296.4
42.5°	5057.2	4800.5	1373.6	491.6	469.9	408.5	347.0	285.6	235.0	209.7	209.7
45°	5769.3	5364.5	1008.5	473.5	448.2	365.1	285.6	213.3	162.7	148.2	151.8
47.5°	6842.9	6044.0	723.0	444.6	419.3	318.1	224.1	151.8	119.3	112.1	115.7
50°	8245.5	6850.2	563.9	412.1	383.2	267.5	166.3	112.1	94.0	90.4	94.0
52.5°	9716.7	7663.5	495.2	383.2	329.0	213.3	122.9	90.4	79.5	75.9	79.5
55°	10974.7	8187.7	430.2	339.8	263.9	159.1	97.6	79.5	68.7	57.8	57.8
57.5°	12247.1	8451.5	339.8	282.0	195.2	119.3	83.1	68.7	57.8	47.0	43.4
60°	13281.0	8639.5	242.2	209.7	137.4	94.0	72.3	61.5	47.0	36.1	32.5
62.5°	13960.6	8100.9	177.1	159.1	101.2	79.5	61.5	50.6	36.1	25.3	25.3
65°	13624.4	7356.2	137.4	112.1	75.9	61.5	50.6	36.1	25.3	14.5	10.8
67.5°	12225.5	5993.4	112.1	83.1	57.8	47.0	39.8	28.9	14.5	3.6	3.6
70°	9120.3	4392.1	90.4	61.5	47.0	36.1	28.9	18.1	7.2	3.6	0.0
72.5°	4988.5	2403.9	72.3	50.6	36.1	28.9	21.7	14.5	7.2	0.0	0.0
75°	1648.4	639.8	54.2	36.1	21.7	18.1	14.5	10.8	3.6	0.0	0.0
77.5°	397.6	166.3	43.4	32.5	18.1	10.8	7.2	3.6	3.6	0.0	0.0
80°	122.9	68.7	32.5	21.7	14.5	10.8	3.6	0.0	0.0	0.0	0.0
82.5°	50.6	32.5	14.5	14.5	10.8	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.3	18.1	10.8	7.2	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	7.2	3.6	3.6	0.0	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)