

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: P483281

Luminaire Tested: **IFLD-S-SA6B-750-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483281
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

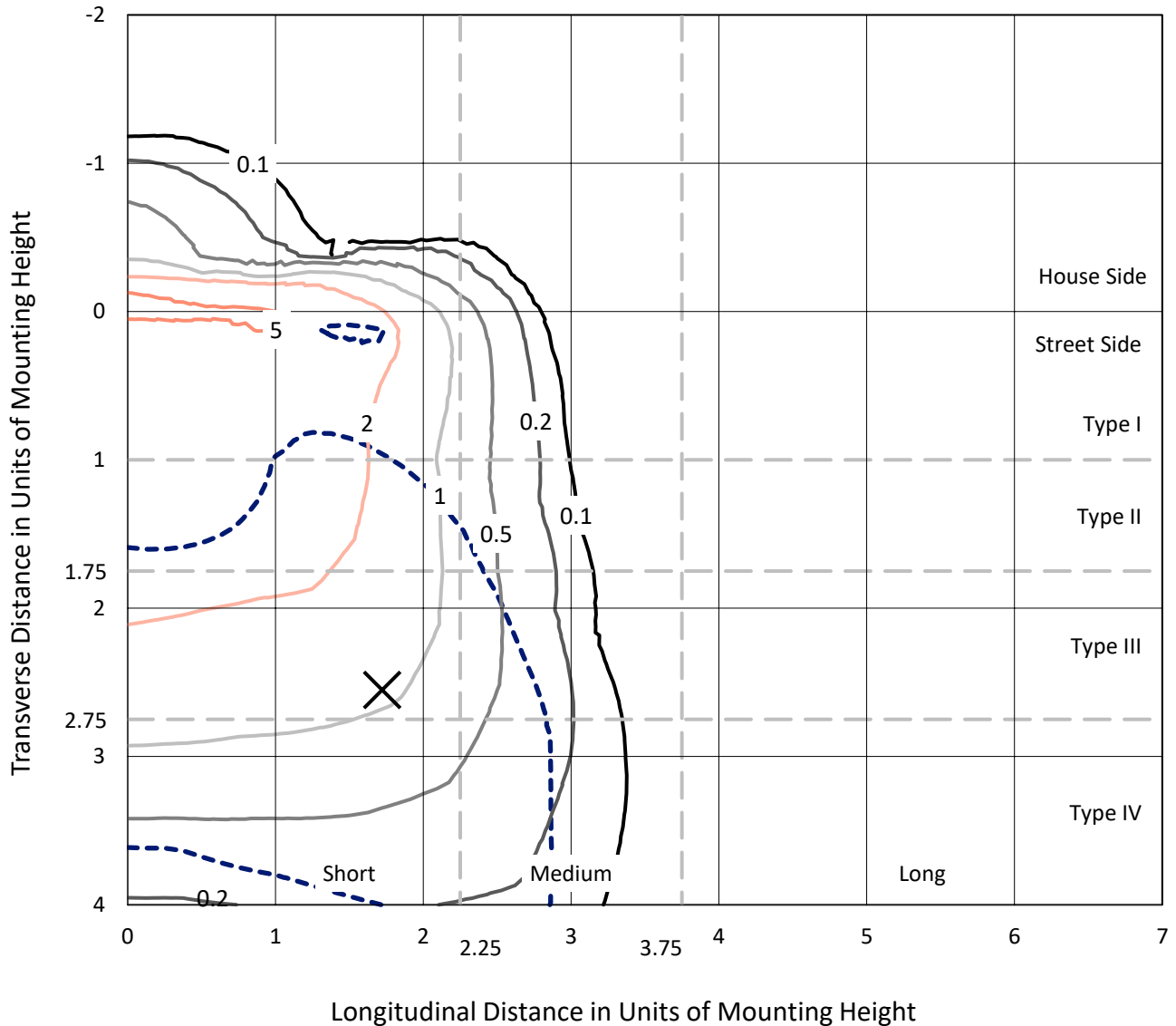
Lumens per Lamp: N/A
Luminaire Lumens: 24689.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (A_{in}): 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

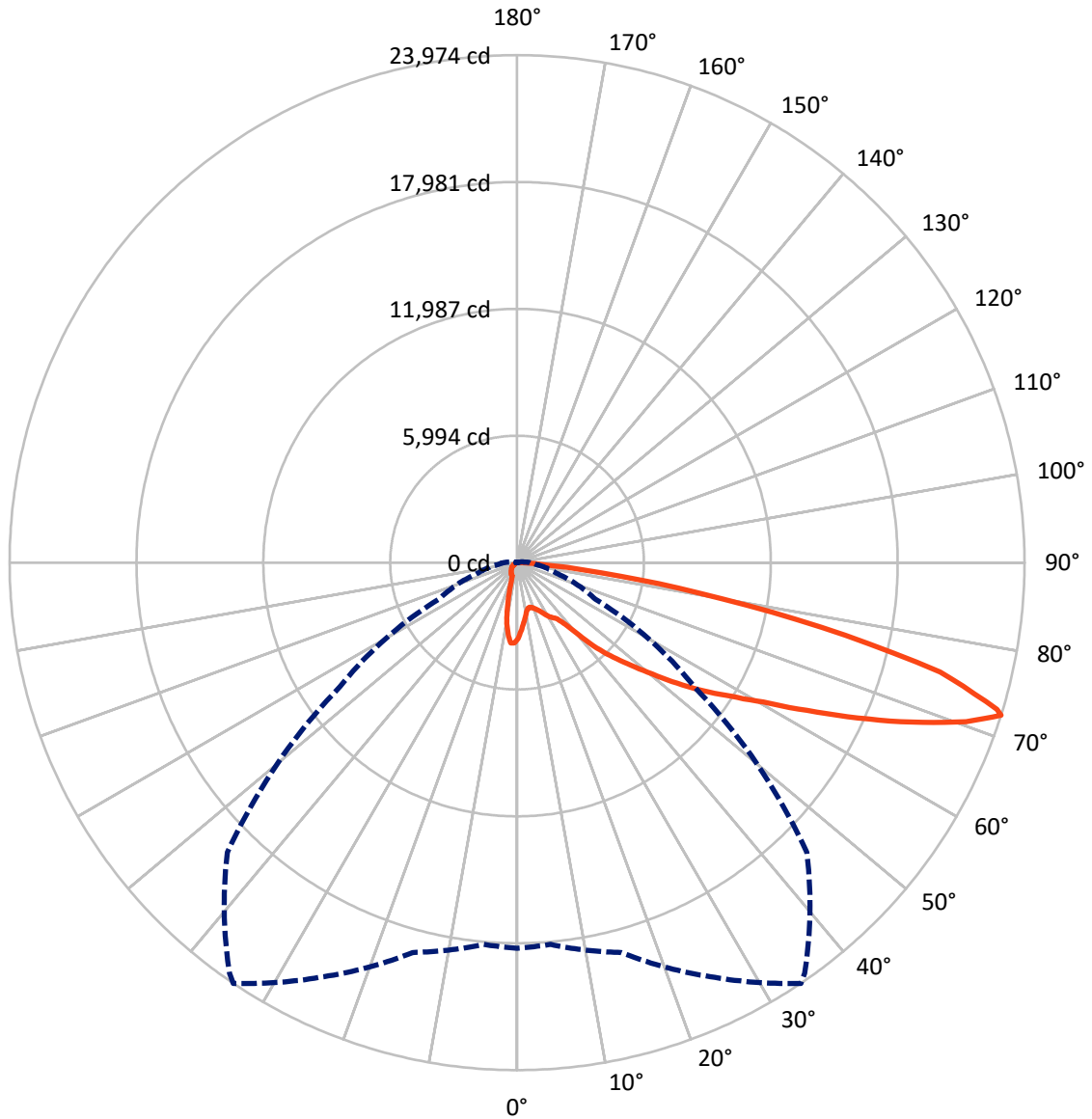
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2527.6	0.0	2527.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	22161.6	0.0	22161.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	24689.2	0.0	24689.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	1.3
10°-20°	709.9	2.9
20°-30°	1071.5	4.3
30°-40°	1738.8	7.0
40°-50°	3269.8	13.2
50°-60°	5346.2	21.7
60°-70°	7107.0	28.8
70°-80°	4759.5	19.3
80°-90°	373.0	1.5
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°	24689.2	100.0
0°-180°	24689.2	100.0



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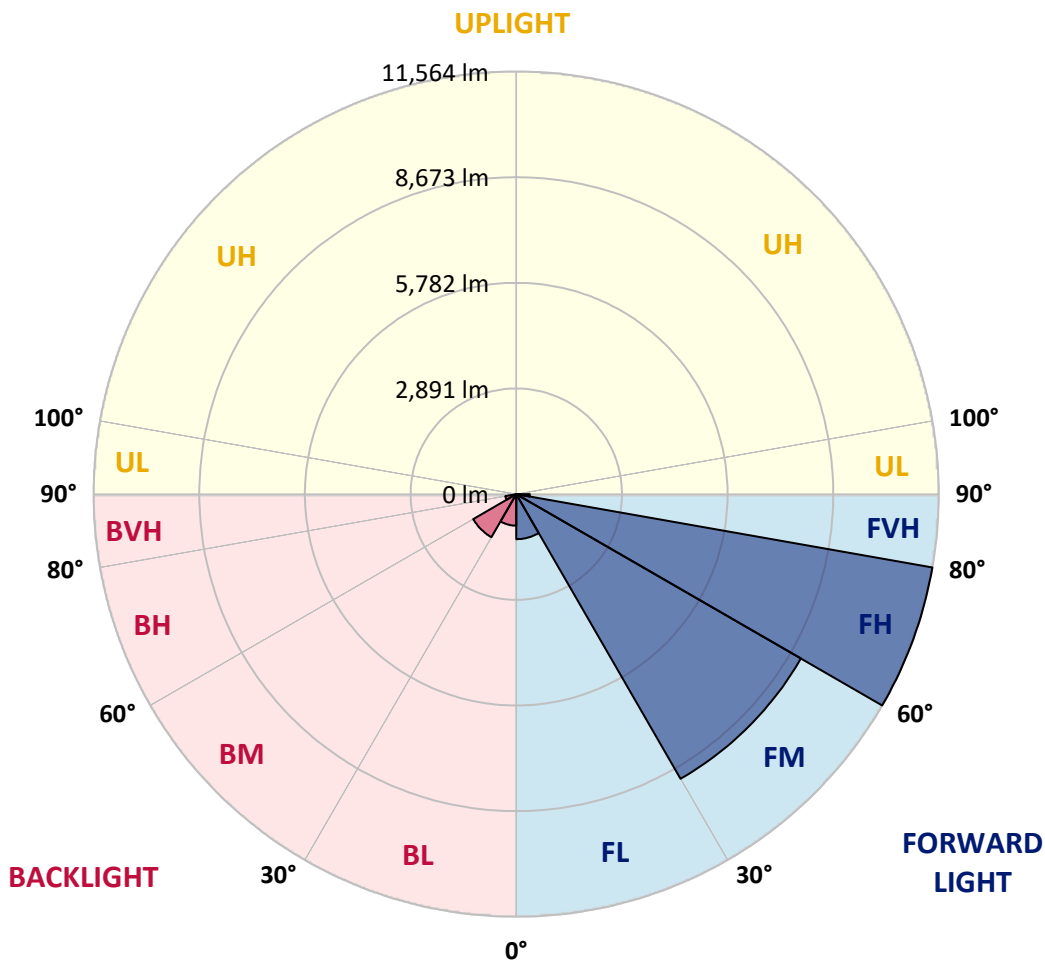
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.5	5.0			
FM (30°-60°)	8994.2	36.4			
FH (60°-80°)	11564.2	46.8			G4/12000
FVH (80°-90°)	370.6	1.5			G3/500
BL (0°-30°)	862.4	3.5	B2/1000		
BM (30°-60°)	1360.6	5.5	B2/2500		
BH (60°-80°)	302.2	1.2	B1/500		G1/500
BVH (80°-90°)	2.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0
2.5°	3194.4	3187.3	3208.7	3244.4	3280.1	3265.8	3333.6	3405.0	3455.0	3522.8	3604.9
5°	2791.1	2809.0	2830.4	2901.8	2948.2	2958.9	3083.8	3176.6	3330.1	3487.1	3633.5
7.5°	2423.5	2444.9	2487.7	2566.3	2662.6	2687.6	2812.5	2998.1	3198.0	3405.0	3644.2
10°	2155.8	2177.2	2223.6	2273.6	2402.1	2402.1	2573.4	2830.4	3090.9	3333.6	3647.7
12.5°	2098.7	2109.4	2105.8	2145.1	2227.2	2245.0	2412.8	2694.8	2998.1	3308.7	3704.8
15°	2166.5	2173.7	2138.0	2116.5	2187.9	2205.8	2362.8	2612.7	2937.5	3322.9	3797.6
17.5°	2302.1	2277.2	2205.8	2173.7	2234.3	2245.0	2391.4	2609.1	2930.3	3362.2	3904.7
20°	2380.7	2409.2	2284.3	2223.6	2309.3	2323.6	2480.6	2666.2	2966.0	3430.0	4054.6
22.5°	2519.9	2534.1	2366.4	2327.1	2409.2	2409.2	2587.7	2780.4	3051.7	3540.7	4233.1
25°	2716.2	2698.3	2502.0	2462.8	2541.3	2573.4	2751.9	2962.4	3183.7	3644.2	4397.3
27.5°	2869.6	2880.4	2719.7	2616.2	2748.3	2769.7	2962.4	3158.8	3283.7	3729.8	4597.1
30°	3098.1	3076.7	2905.3	2787.6	2951.7	2955.3	3140.9	3344.4	3476.4	3883.3	4897.0
32.5°	3369.3	3326.5	3130.2	2962.4	3094.5	3126.6	3315.8	3612.0	3776.2	4172.4	5361.0
35°	3944.0	3840.5	3519.2	3258.7	3269.4	3283.7	3576.4	4001.1	4190.3	4540.0	5982.0
37.5°	4782.7	4739.9	4375.9	3879.7	3690.6	3647.7	3976.1	4515.1	4750.6	5025.5	6788.6
40°	5614.4	5553.7	5214.6	4839.9	4497.2	4411.5	4575.7	5196.8	5410.9	5700.0	7616.7
42.5°	6538.8	6431.7	6032.0	5728.6	5514.4	5421.6	5357.4	6053.4	6296.1	6492.4	8426.9
45°	7473.9	7299.0	6720.8	6488.8	6374.6	6324.6	6317.5	7131.3	7277.6	7316.9	9326.4
47.5°	8294.8	8105.7	7581.0	7320.5	7234.8	7220.5	7620.3	8373.4	8259.2	8155.6	10329.3
50°	8926.6	8805.2	8426.9	8334.1	8269.9	8244.9	9180.0	9651.1	9122.9	8940.9	11210.9
52.5°	9904.6	9633.3	9205.0	9237.1	9462.0	9465.6	10761.2	10864.7	9840.3	9479.8	12042.5
55°	10686.2	10507.8	10158.0	10111.6	10704.1	10768.3	12178.2	11785.5	10240.1	9993.8	12349.5
57.5°	11607.1	11525.0	11271.6	11278.7	11899.8	12035.4	13438.1	12563.6	10572.0	10325.7	12395.9
60°	12938.4	12702.8	12570.8	12631.4	13363.1	13495.2	14658.8	13124.0	10732.6	10543.5	12281.7
62.5°	14408.9	14134.1	13991.3	14301.8	15369.0	15390.4	15586.7	13620.1	10632.7	10600.6	11546.4
65°	16179.2	15908.0	15793.8	16418.4	17685.4	17606.9	16889.5	13830.7	10315.0	10025.9	9615.5
67.5°	17942.4	17778.2	17542.7	18538.5	20116.1	20116.1	18242.2	13752.2	9483.4	8048.6	6289.0
70°	18777.6	18891.8	19266.6	20829.9	22503.9	22332.6	19577.1	12849.2	7059.9	4322.3	2473.5
72°	18220.8	18103.0	19070.3	21579.5	23974.4	23692.4	19352.3	10215.1	4079.6	1895.3	860.2
72.5°	17264.3	17374.9	18706.2	21475.9	23699.6	23931.6	18802.6	9422.7	3355.1	1509.8	649.6
75°	10586.3	10775.5	13962.8	18235.1	20651.5	20390.9	14544.5	4490.1	1288.5	642.5	232.0
77.5°	3865.5	4022.5	6774.4	11475.0	14687.3	14523.1	8416.2	1595.4	699.6	478.3	117.8
80°	1006.5	1088.6	2302.1	5293.1	8637.5	8648.2	3522.8	638.9	474.7	392.6	71.4
82.5°	199.9	221.3	706.7	2059.4	4036.8	3983.2	1113.6	342.6	356.9	321.2	50.0
85°	25.0	32.1	149.9	699.6	1306.3	1170.7	274.8	171.3	264.1	249.8	32.1
87.5°	3.6	3.6	35.7	160.6	274.8	267.7	57.1	53.5	117.8	153.5	17.8
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°	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0	3612.0
2.5°	3651.3	3665.6	3715.5	3758.4	3808.3	3822.6	3801.2	3836.9	3786.9	3815.5	3822.6
5°	3658.4	3740.5	3833.3	3894.0	3879.7	3844.0	3815.5	3719.1	3651.3	3626.3	3679.9
7.5°	3708.4	3801.2	3901.1	3901.1	3822.6	3637.0	3458.6	3287.2	3144.5	3073.1	3133.8
10°	3772.7	3869.0	3972.5	3836.9	3544.2	3205.2	2951.7	2630.5	2412.8	2298.6	2309.3
12.5°	3858.3	3993.9	4029.6	3715.5	3230.1	2726.9	2266.4	1820.3	1613.3	1449.1	1452.7
15°	3969.0	4101.0	3993.9	3451.4	2830.4	2088.0	1534.8	1110.0	945.8	860.2	860.2
17.5°	4115.3	4215.2	3983.2	3208.7	2291.4	1427.7	942.3	749.5	713.8	699.6	699.6
20°	4286.6	4361.6	3879.7	2830.4	1702.5	917.3	692.4	671.0	674.6	667.4	667.4
22.5°	4479.4	4504.3	3761.9	2391.4	1152.9	678.2	646.0	649.6	653.2	646.0	649.6
25°	4682.8	4615.0	3590.6	1877.4	767.4	617.5	624.6	631.8	635.3	638.9	638.9
27.5°	4911.2	4775.6	3351.5	1374.1	599.6	581.8	603.2	624.6	628.2	628.2	624.6
30°	5246.7	5021.9	3119.5	931.6	528.2	542.5	578.2	603.2	621.0	621.0	617.5
32.5°	5671.5	5278.9	2794.7	635.3	489.0	496.1	524.7	574.6	613.9	617.5	606.8
35°	6260.4	5589.4	2455.6	506.8	460.4	464.0	481.8	521.1	588.9	610.3	606.8
37.5°	6881.4	5942.7	2034.5	456.9	439.0	435.4	446.2	478.3	539.0	592.5	596.1
40°	7541.7	6313.9	1591.9	431.9	421.2	414.0	417.6	431.9	478.3	546.1	560.4
42.5°	8162.8	6649.4	1195.7	406.9	403.3	396.2	396.2	399.8	424.7	471.1	478.3
45°	8833.8	6924.3	910.1	389.0	378.3	381.9	367.6	360.5	378.3	381.9	378.3
47.5°	9462.0	7199.1	728.1	367.6	356.9	356.9	339.1	324.8	324.8	292.7	289.1
50°	10050.9	7349.0	581.8	339.1	335.5	331.9	307.0	282.0	260.6	221.3	214.2
52.5°	10539.9	7341.9	449.7	303.4	314.1	303.4	264.1	228.4	196.3	160.6	153.5
55°	10686.2	6999.2	339.1	249.8	267.7	253.4	210.6	178.5	142.8	114.2	110.6
57.5°	10561.3	6478.1	257.0	192.7	207.0	192.7	160.6	132.1	99.9	78.5	71.4
60°	10143.7	5867.8	199.9	149.9	157.0	146.3	121.4	99.9	71.4	50.0	42.8
62.5°	9351.3	5104.0	153.5	117.8	114.2	114.2	92.8	75.0	50.0	28.6	25.0
65°	7673.8	3979.7	117.8	82.1	82.1	82.1	71.4	53.5	32.1	14.3	7.1
67.5°	4818.4	2316.4	96.4	64.2	60.7	60.7	50.0	35.7	17.8	3.6	0.0
70°	1813.2	849.5	75.0	50.0	46.4	46.4	35.7	21.4	10.7	0.0	0.0
72°	624.6	324.8	60.7	35.7	35.7	32.1	25.0	17.8	7.1	0.0	0.0
72.5°	514.0	260.6	57.1	35.7	32.1	32.1	25.0	17.8	7.1	0.0	0.0
75°	185.6	107.1	39.3	25.0	21.4	21.4	17.8	10.7	3.6	0.0	0.0
77.5°	92.8	67.8	32.1	21.4	17.8	10.7	10.7	7.1	3.6	0.0	0.0
80°	57.1	42.8	17.8	14.3	10.7	7.1	3.6	3.6	0.0	0.0	0.0
82.5°	39.3	25.0	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.0	10.7	7.1	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	7.1	3.6	0.0	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)