

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: P482469

Luminaire Tested: **IFLD-M-SA4D-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482469
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

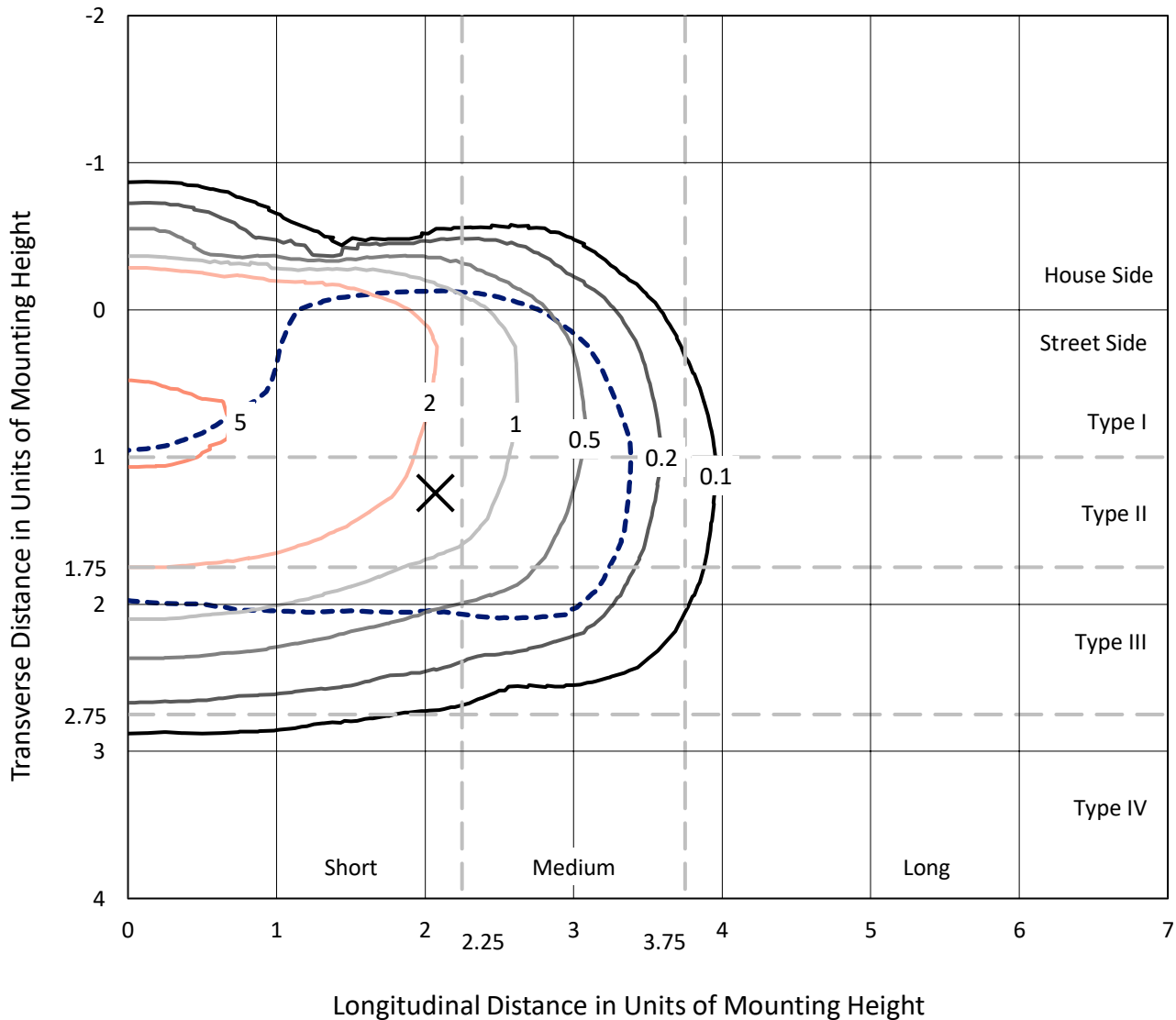
Lumens per Lamp: N/A
Luminaire Lumens: 23213.4 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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: P482469
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

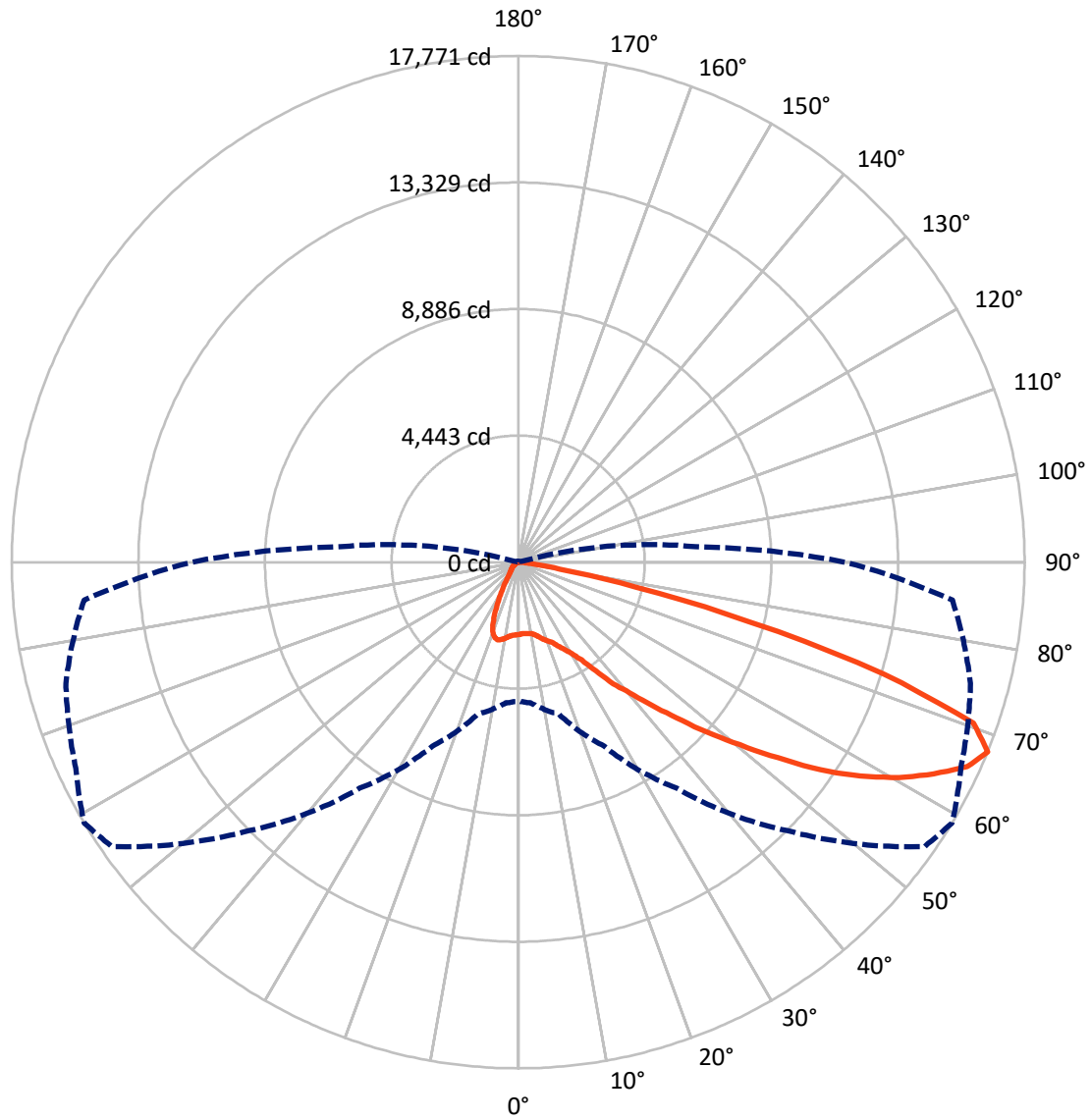
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P482469
CATALOG NUMBER: IFLD-M-SA4D-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482469
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2726.8	0.0	2726.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	20486.6	0.0	20486.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	23213.4	0.0	23213.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.0
10°-20°	698.6	3.0
20°-30°	1221.0	5.3
30°-40°	2149.7	9.3
40°-50°	3800.0	16.4
50°-60°	6016.8	25.9
60°-70°	6674.3	28.8
70°-80°	2315.8	10.0
80°-90°	95.4	0.4
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°	23213.4	100.0
0°-180°	23213.4	100.0

Coefficient of Utilization

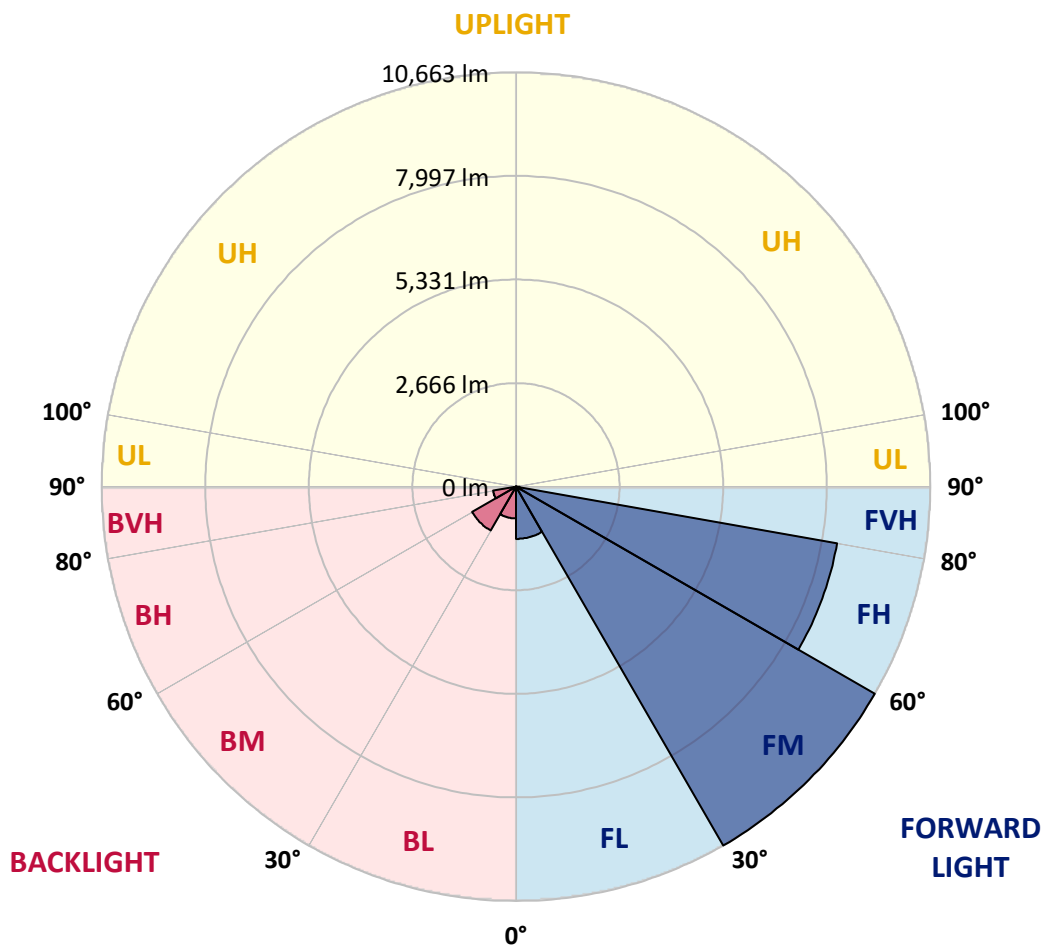


REPORT NUMBER: P482469
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1344.2	5.8			
FM (30°-60°)	10662.8	45.9			
FH (60°-80°)	8390.4	36.1			G4/12000
FVH (80°-90°)	89.2	0.4			G1/100
BL (0°-30°)	817.2	3.5	B2/1000		
BM (30°-60°)	1303.7	5.6	B2/2500		
BH (60°-80°)	599.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.2	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 III Short





REPORT NUMBER: P482469

CATALOG NUMBER: IFLD-M-SA4D-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1
2.5°	2472.3	2437.1	2469.1	2472.3	2475.5	2504.4	2536.5	2514.0	2510.8	2536.5	2558.9
5°	2372.9	2356.9	2395.4	2414.6	2446.7	2472.3	2523.7	2526.9	2530.1	2558.9	2597.4
7.5°	2331.2	2292.8	2337.7	2360.1	2382.6	2443.5	2504.4	2536.5	2581.4	2616.6	2655.1
10°	2247.9	2276.7	2289.6	2328.0	2392.2	2462.7	2536.5	2552.5	2651.9	2680.8	2773.8
12.5°	2276.7	2296.0	2321.6	2331.2	2401.8	2507.6	2607.0	2613.4	2716.1	2841.1	2889.2
15°	2350.5	2337.7	2347.3	2360.1	2443.5	2530.1	2690.4	2719.3	2815.5	2956.6	3075.2
17.5°	2507.6	2485.2	2469.1	2465.9	2485.2	2565.3	2754.5	2841.1	2930.9	3123.3	3184.2
20°	2902.0	2882.8	2818.7	2651.9	2594.2	2626.3	2831.5	2953.3	3078.4	3293.3	3392.7
22.5°	3501.7	3520.9	3370.2	3136.1	2895.6	2770.6	2953.3	3059.2	3258.0	3530.5	3620.3
25°	4210.4	4171.9	3989.1	3716.5	3338.1	3043.1	3149.0	3267.6	3511.3	3735.8	3771.0
27.5°	4765.1	4720.2	4579.1	4248.8	3921.8	3444.0	3405.5	3479.2	3767.8	3969.9	3931.4
30°	5313.5	5329.5	5233.3	4842.1	4438.0	3934.6	3690.9	3722.9	3944.2	4203.9	4117.4
32.5°	6012.5	5974.0	5919.5	5576.4	5098.6	4559.9	4143.0	4091.7	4187.9	4531.0	4428.4
35°	6663.5	6641.0	6567.3	6220.9	5804.1	5217.3	4810.0	4694.6	4672.1	5053.7	4874.1
37.5°	7231.0	7192.6	7080.3	6859.1	6455.0	5961.2	5515.5	5412.9	5409.7	5672.6	5326.3
40°	7708.8	7737.7	7724.9	7481.2	7259.9	6865.5	6182.5	6018.9	6006.1	6147.2	5945.2
42.5°	8327.7	8395.1	8359.8	8311.7	8045.5	7891.6	7118.8	6868.7	6756.5	7045.1	6862.3
45°	9264.1	9289.7	9312.2	9193.5	8927.4	8959.4	8087.2	7789.0	7760.1	8189.8	7779.4
47.5°	10139.5	10072.2	10229.3	10235.7	10222.9	10075.4	9132.6	8911.3	8949.8	9276.9	8853.6
50°	10357.5	10530.7	10963.6	11043.8	11252.2	11386.9	10293.4	10072.2	10136.3	10508.3	10024.1
52.5°	10527.5	10790.4	11223.3	11810.2	12371.3	12692.0	11592.1	11412.5	11409.3	11637.0	10970.0
55°	10825.7	10986.1	11361.2	12169.3	13237.1	13763.0	13157.0	12868.4	12608.6	12769.0	11951.3
57.5°	10796.9	10857.8	11441.4	12438.7	13923.4	14879.0	14442.8	14167.1	13833.6	13740.6	13080.0
60°	10290.2	10434.5	11088.7	12255.9	14346.6	15748.0	15642.1	15360.0	14786.0	14567.9	13945.8
62.5°	9286.5	9478.9	9992.0	11614.6	13731.0	15792.9	16469.5	16363.6	15722.3	15331.1	15074.6
65°	7526.1	7615.8	8205.9	9985.6	12339.3	15103.4	17447.5	17316.0	16726.0	16142.4	15655.0
67.5°	4874.1	4960.7	5528.3	7128.4	9690.6	13323.7	17409.0	17771.4	17133.2	16431.0	15292.6
70°	2302.4	2279.9	2809.0	3960.2	6208.1	10174.8	16232.2	16947.3	16405.3	14895.0	12701.6
72.5°	702.3	763.2	1167.2	1754.0	3187.4	6346.0	12724.1	13394.3	13224.3	11900.0	8478.4
75°	311.0	336.7	458.6	718.3	1292.3	2603.8	7859.6	8456.0	8382.2	7019.4	3870.5
77.5°	198.8	218.1	288.6	410.5	586.8	827.3	3620.3	4200.7	4072.5	2465.9	1013.3
80°	141.1	150.7	205.2	282.2	368.8	339.9	1247.4	1481.5	1420.6	670.2	272.6
82.5°	77.0	83.4	150.7	208.4	246.9	173.2	349.5	436.1	455.3	298.2	131.5
85°	28.9	35.3	93.0	147.5	128.3	80.2	102.6	125.1	163.5	163.5	60.9
87.5°	0.0	3.2	38.5	64.1	32.1	22.4	28.9	35.3	44.9	77.0	22.4
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: P482469

CATALOG NUMBER: IFLD-M-SA4D-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1	2546.1
2.5°	2575.0	2552.5	2562.1	2578.2	2542.9	2562.1	2523.7	2552.5	2562.1	2523.7	2542.9
5°	2607.0	2629.5	2616.6	2591.0	2568.5	2575.0	2565.3	2542.9	2562.1	2568.5	2555.7
7.5°	2700.0	2674.4	2680.8	2651.9	2607.0	2603.8	2542.9	2526.9	2533.3	2539.7	2517.2
10°	2786.6	2802.6	2770.6	2748.1	2674.4	2626.3	2542.9	2453.1	2443.5	2405.0	2437.1
12.5°	2940.5	2902.0	2889.2	2815.5	2741.7	2581.4	2401.8	2263.9	2148.5	2106.8	2065.1
15°	3068.8	3062.4	3039.9	2927.7	2757.7	2465.9	2126.0	1805.4	1584.1	1446.2	1427.0
17.5°	3245.2	3216.3	3174.6	2998.2	2639.1	2164.5	1584.1	1180.1	958.8	872.2	840.1
20°	3379.8	3357.4	3299.7	2982.2	2424.2	1613.0	981.2	750.4	695.8	679.8	683.0
22.5°	3575.4	3504.9	3395.9	2902.0	2033.0	1074.2	705.5	670.2	660.6	647.7	651.0
25°	3745.4	3681.3	3453.6	2764.2	1449.4	711.9	654.2	634.9	618.9	602.9	599.6
27.5°	3896.1	3815.9	3514.5	2482.0	907.5	612.5	606.1	583.6	551.5	525.9	516.3
30°	4043.6	3950.6	3530.5	1952.9	612.5	554.8	538.7	503.4	461.8	426.5	420.1
32.5°	4290.5	4178.3	3508.1	1394.9	529.1	493.8	458.6	416.9	355.9	327.1	320.7
35°	4675.3	4505.4	3479.2	820.9	474.6	436.1	381.6	327.1	282.2	253.3	246.9
37.5°	5117.8	4822.8	3395.9	548.3	436.1	384.8	314.3	259.7	221.3	198.8	192.4
40°	5775.2	5287.8	3075.2	448.9	388.0	327.1	253.3	205.2	176.4	160.3	153.9
42.5°	6499.9	5820.1	2581.4	404.0	343.1	279.0	202.0	166.7	144.3	128.3	128.3
45°	7368.9	6374.9	1991.3	368.8	304.6	230.9	166.7	134.7	115.4	102.6	96.2
47.5°	8337.3	6878.3	1343.6	333.5	256.5	189.2	137.9	102.6	83.4	73.8	73.8
50°	9203.1	7324.0	856.2	291.8	224.5	157.1	112.2	83.4	67.3	54.5	51.3
52.5°	9988.8	7663.9	590.0	256.5	192.4	128.3	93.0	67.3	51.3	41.7	41.7
55°	10793.7	7837.1	436.1	221.3	166.7	109.0	77.0	60.9	44.9	35.3	32.1
57.5°	11454.2	7910.9	333.5	192.4	141.1	86.6	67.3	51.3	38.5	28.9	25.7
60°	12018.6	7875.6	259.7	160.3	112.2	73.8	57.7	41.7	32.1	22.4	19.2
62.5°	12348.9	7663.9	205.2	137.9	89.8	64.1	48.1	35.3	22.4	16.0	12.8
65°	12355.3	7215.0	160.3	102.6	67.3	54.5	41.7	28.9	16.0	6.4	3.2
67.5°	11470.3	6243.4	128.3	80.2	54.5	41.7	32.1	22.4	6.4	0.0	0.0
70°	8972.3	4723.4	105.8	64.1	44.9	35.3	22.4	12.8	3.2	0.0	0.0
72.5°	5717.5	2828.3	86.6	51.3	38.5	25.7	16.0	9.6	0.0	0.0	0.0
75°	2392.2	872.2	67.3	44.9	28.9	19.2	12.8	3.2	0.0	0.0	0.0
77.5°	615.7	275.8	54.5	38.5	28.9	16.0	9.6	3.2	0.0	0.0	0.0
80°	182.8	102.6	44.9	32.1	22.4	12.8	6.4	3.2	0.0	0.0	0.0
82.5°	83.4	60.9	38.5	28.9	19.2	12.8	6.4	0.0	0.0	0.0	0.0
85°	32.1	19.2	19.2	16.0	16.0	9.6	3.2	0.0	0.0	0.0	0.0
87.5°	12.8	6.4	6.4	6.4	3.2	3.2	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)