

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: P483249

Luminaire Tested: **IFLD-M-SA4D-740-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483249  
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-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

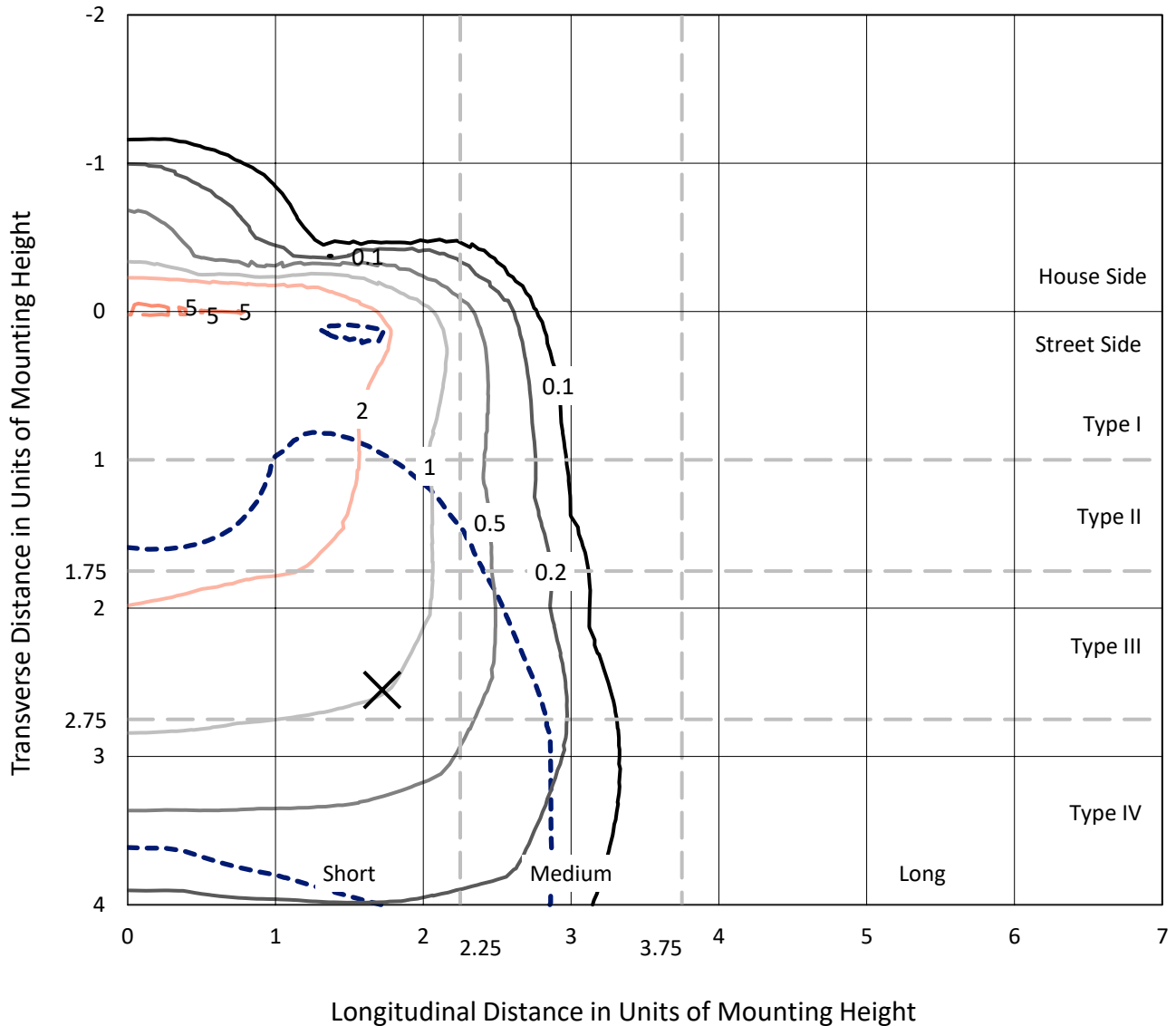
Lumens per Lamp: N/A  
Luminaire Lumens: 22621 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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: P483249  
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

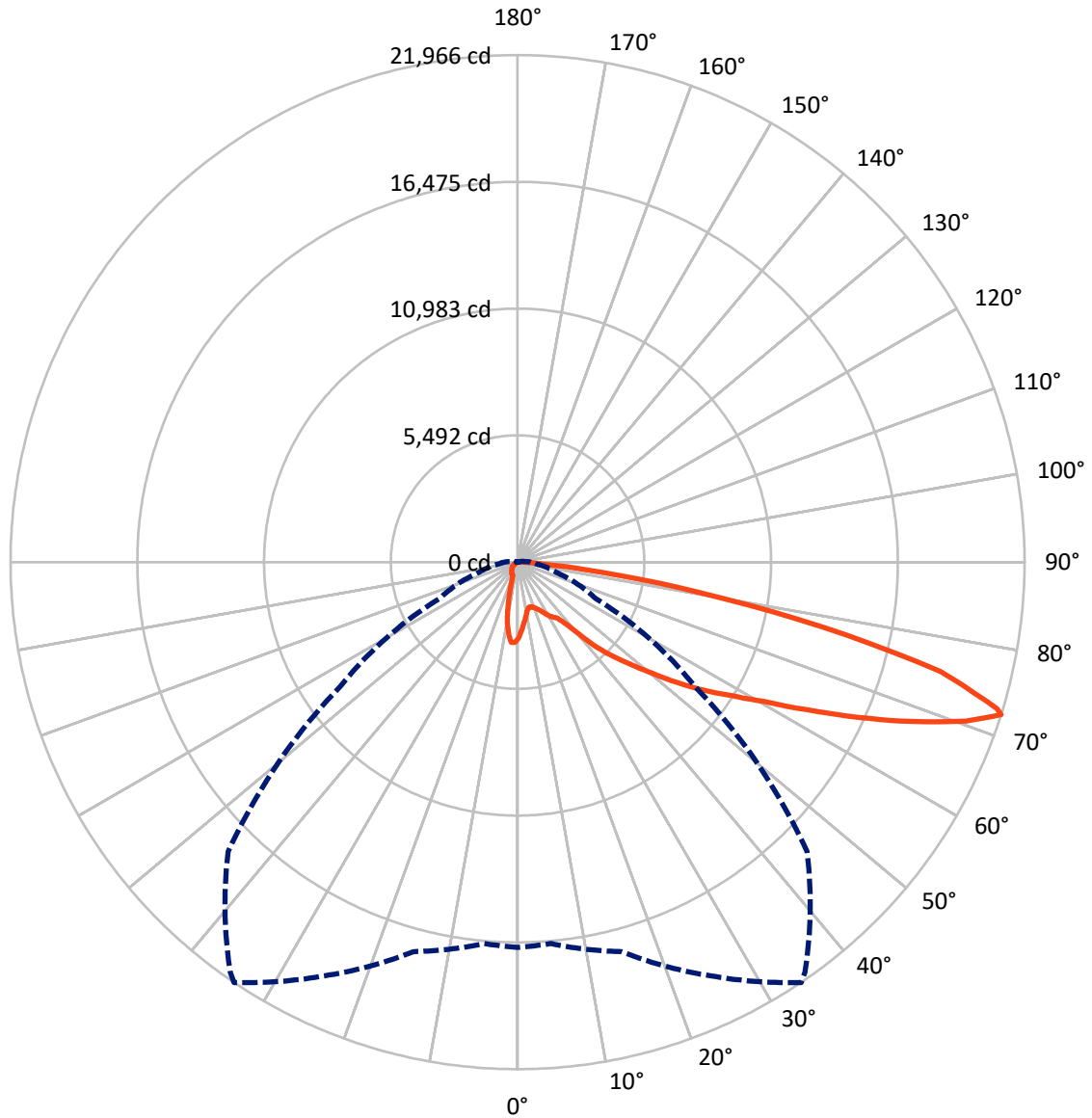
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483249  
CATALOG NUMBER: IFLD-M-SA4D-740-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P483249  
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2315.9	0.0	2315.9
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	20305.2	0.0	20305.2
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	22621.0	0.0	22621.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	1.3
10°-20°	650.4	2.9
20°-30°	981.7	4.3
30°-40°	1593.2	7.0
40°-50°	2995.9	13.2
50°-60°	4898.3	21.7
60°-70°	6511.6	28.8
70°-80°	4360.8	19.3
80°-90°	341.7	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°	22621.0	100.0
0°-180°	22621.0	100.0



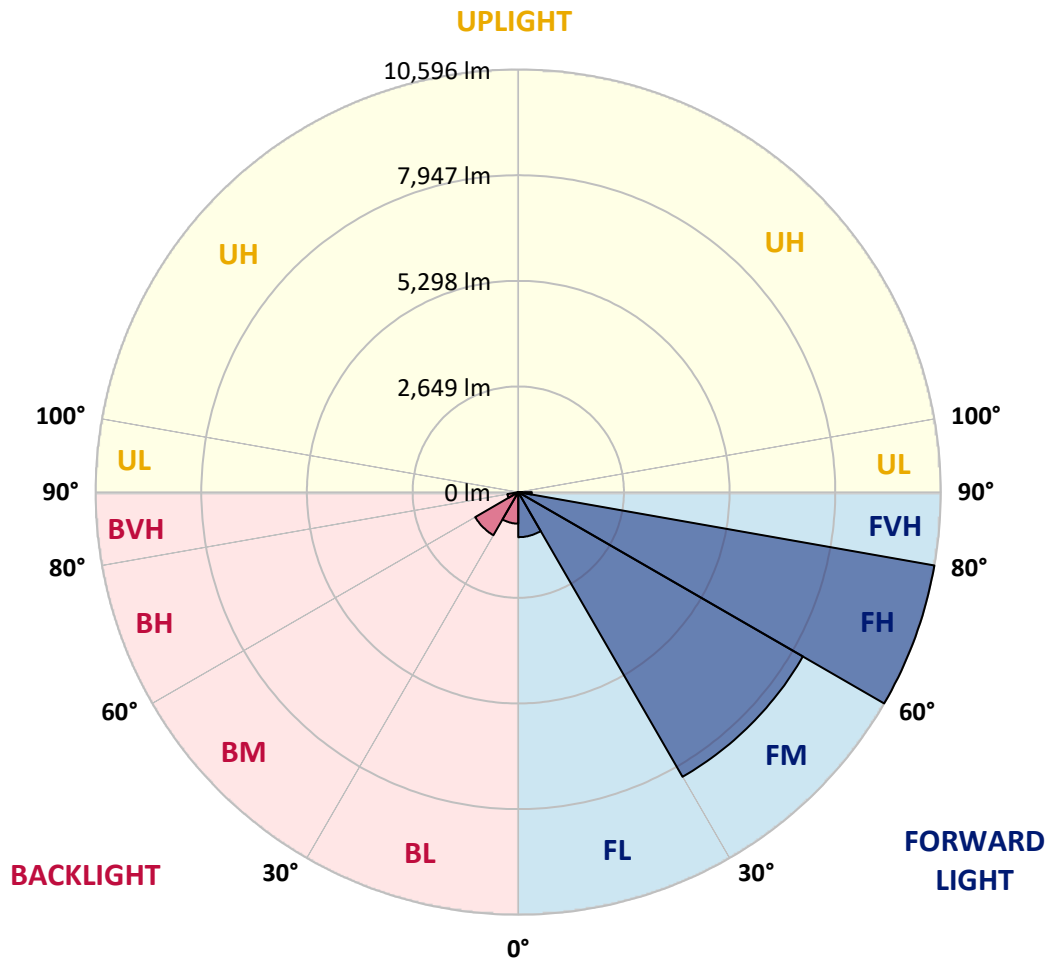
REPORT NUMBER: P483249  
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.3	5.0			
FM (30°-60°)	8240.8	36.4			
FH (60°-80°)	10595.5	46.8			G4/12000
FVH (80°-90°)	339.6	1.5			G3/500
BL (0°-30°)	790.2	3.5	B2/1000		
BM (30°-60°)	1246.6	5.5	B2/2500		
BH (60°-80°)	276.9	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	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 IV Short





REPORT NUMBER: P483249

CATALOG NUMBER: IFLD-M-SA4D-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5
2.5°	2926.9	2920.3	2939.9	2972.6	3005.3	2992.3	3054.4	3119.8	3165.6	3227.7	3302.9
5°	2557.3	2573.7	2593.3	2658.7	2701.2	2711.0	2825.5	2910.5	3051.1	3195.0	3329.1
7.5°	2220.5	2240.1	2279.4	2351.3	2439.6	2462.5	2576.9	2747.0	2930.1	3119.8	3338.9
10°	1975.2	1994.8	2037.4	2083.1	2200.9	2200.9	2357.8	2593.3	2832.0	3054.4	3342.2
12.5°	1922.9	1932.7	1929.4	1965.4	2040.6	2057.0	2210.7	2469.0	2747.0	3031.5	3394.5
15°	1985.0	1991.6	1958.9	1939.2	2004.7	2021.0	2164.9	2393.8	2691.4	3044.6	3479.5
17.5°	2109.3	2086.4	2021.0	1991.6	2047.2	2057.0	2191.1	2390.5	2684.9	3080.6	3577.6
20°	2181.2	2207.4	2092.9	2037.4	2115.8	2128.9	2272.8	2442.9	2717.6	3142.7	3715.0
22.5°	2308.8	2321.9	2168.2	2132.2	2207.4	2207.4	2370.9	2547.5	2796.0	3244.1	3878.5
25°	2488.6	2472.3	2292.4	2256.5	2328.4	2357.8	2521.3	2714.3	2917.0	3338.9	4028.9
27.5°	2629.3	2639.1	2491.9	2397.1	2518.1	2537.7	2714.3	2894.2	3008.6	3417.4	4212.1
30°	2838.6	2818.9	2662.0	2554.1	2704.5	2707.8	2877.8	3064.2	3185.2	3558.0	4486.8
32.5°	3087.1	3047.9	2868.0	2714.3	2835.3	2864.7	3038.0	3309.5	3459.9	3822.9	4911.9
35°	3613.6	3518.8	3224.4	2985.7	2995.5	3008.6	3276.8	3665.9	3839.3	4159.7	5480.9
37.5°	4382.1	4342.9	4009.3	3554.7	3381.4	3342.2	3643.0	4136.8	4352.7	4604.5	6220.0
40°	5144.1	5088.5	4777.8	4434.4	4120.5	4042.0	4192.4	4761.5	4957.7	5222.6	6978.7
42.5°	5991.1	5893.0	5526.7	5248.7	5052.5	4967.5	4908.6	5546.3	5768.7	5948.5	7721.0
45°	6847.9	6687.6	6157.8	5945.3	5840.6	5794.8	5788.3	6533.9	6668.0	6704.0	8545.1
47.5°	7600.0	7426.7	6946.0	6707.2	6628.8	6615.7	6981.9	7672.0	7567.3	7472.5	9464.0
50°	8178.8	8067.7	7721.0	7636.0	7577.1	7554.2	8411.0	8842.7	8358.7	8191.9	10271.8
52.5°	9074.9	8826.4	8433.9	8463.4	8669.4	8672.7	9859.7	9954.6	9016.0	8685.7	11033.8
55°	9791.1	9627.6	9307.1	9264.6	9807.4	9866.3	11158.0	10798.3	9382.3	9156.6	11315.0
57.5°	10634.8	10559.6	10327.4	10333.9	10902.9	11027.2	12312.4	11511.2	9686.4	9460.8	11357.5
60°	11854.6	11638.8	11517.8	11573.3	12243.7	12364.7	13430.8	12024.6	9833.6	9660.3	11252.9
62.5°	13201.9	12950.1	12819.3	13103.8	14081.6	14101.2	14281.1	12479.2	9742.0	9712.6	10579.2
65°	14824.0	14575.4	14470.8	15043.1	16204.0	16132.0	15474.7	12672.1	9451.0	9186.1	8810.0
67.5°	16439.4	16289.0	16073.2	16985.6	18431.0	18431.0	16714.1	12600.2	8689.0	7374.4	5762.1
70°	17204.7	17309.3	17652.7	19085.1	20618.8	20461.8	17937.2	11772.8	6468.5	3960.2	2266.3
72°	16694.5	16586.6	17472.8	19771.8	21966.1	21707.8	17731.2	9359.4	3737.9	1736.5	788.1
72.5°	15818.1	15919.5	17139.3	19677.0	21714.3	21926.9	17227.6	8633.4	3074.0	1383.3	595.2
75°	9699.5	9872.8	12793.1	16707.6	18921.6	18682.8	13326.2	4113.9	1180.6	588.6	212.6
77.5°	3541.7	3685.5	6206.9	10513.8	13457.0	13306.6	7711.2	1461.8	641.0	438.2	107.9
80°	922.2	997.4	2109.3	4849.8	7914.0	7923.8	3227.7	585.4	434.9	359.7	65.4
82.5°	183.1	202.8	647.5	1886.9	3698.6	3649.6	1020.3	313.9	327.0	294.3	45.8
85°	22.9	29.4	137.3	641.0	1196.9	1072.6	251.8	157.0	242.0	228.9	29.4
87.5°	3.3	3.3	32.7	147.2	251.8	245.3	52.3	49.1	107.9	140.6	16.4
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: P483249

CATALOG NUMBER: IFLD-M-SA4D-740-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5	3309.5
2.5°	3345.4	3358.5	3404.3	3443.6	3489.3	3502.4	3482.8	3515.5	3469.7	3495.9	3502.4
5°	3352.0	3427.2	3512.2	3567.8	3554.7	3522.0	3495.9	3407.6	3345.4	3322.6	3371.6
7.5°	3397.8	3482.8	3574.4	3574.4	3502.4	3332.4	3168.9	3011.9	2881.1	2815.7	2871.3
10°	3456.6	3544.9	3639.8	3515.5	3247.3	2936.7	2704.5	2410.2	2210.7	2106.0	2115.8
12.5°	3535.1	3659.4	3692.1	3404.3	2959.6	2498.5	2076.6	1667.8	1478.1	1327.7	1331.0
15°	3636.5	3757.5	3659.4	3162.3	2593.3	1913.1	1406.2	1017.0	866.6	788.1	788.1
17.5°	3770.6	3862.1	3649.6	2939.9	2099.5	1308.1	863.3	686.7	654.0	641.0	641.0
20°	3927.5	3996.2	3554.7	2593.3	1559.9	840.4	634.4	614.8	618.1	611.5	611.5
22.5°	4104.1	4127.0	3446.8	2191.1	1056.3	621.3	591.9	595.2	598.5	591.9	595.2
25°	4290.5	4228.4	3289.9	1720.1	703.1	565.7	572.3	578.8	582.1	585.4	585.4
27.5°	4499.8	4375.6	3070.7	1259.0	549.4	533.0	552.7	572.3	575.6	575.6	572.3
30°	4807.2	4601.2	2858.2	853.5	484.0	497.1	529.8	552.7	569.0	569.0	565.7
32.5°	5196.4	4836.7	2560.6	582.1	448.0	454.6	480.7	526.5	562.5	565.7	555.9
35°	5736.0	5121.2	2249.9	464.4	421.9	425.1	441.5	477.5	539.6	559.2	555.9
37.5°	6305.0	5444.9	1864.0	418.6	402.2	399.0	408.8	438.2	493.8	542.9	546.1
40°	6910.0	5785.0	1458.5	395.7	385.9	379.3	382.6	395.7	438.2	500.3	513.4
42.5°	7479.0	6092.4	1095.5	372.8	369.5	363.0	363.0	366.3	389.2	431.7	438.2
45°	8093.8	6344.2	833.9	356.5	346.6	349.9	336.8	330.3	346.6	349.9	346.6
47.5°	8669.4	6596.1	667.1	336.8	327.0	327.0	310.7	297.6	297.6	268.2	264.9
50°	9209.0	6733.4	533.0	310.7	307.4	304.1	281.2	258.3	238.7	202.8	196.2
52.5°	9657.0	6726.9	412.0	278.0	287.8	278.0	242.0	209.3	179.9	147.2	140.6
55°	9791.1	6412.9	310.7	228.9	245.3	232.2	192.9	163.5	130.8	104.6	101.4
57.5°	9676.6	5935.5	235.5	176.6	189.7	176.6	147.2	121.0	91.6	71.9	65.4
60°	9294.0	5376.3	183.1	137.3	143.9	134.1	111.2	91.6	65.4	45.8	39.2
62.5°	8568.0	4676.4	140.6	107.9	104.6	104.6	85.0	68.7	45.8	26.2	22.9
65°	7031.0	3646.3	107.9	75.2	75.2	75.2	65.4	49.1	29.4	13.1	6.5
67.5°	4414.8	2122.4	88.3	58.9	55.6	55.6	45.8	32.7	16.4	3.3	0.0
70°	1661.3	778.3	68.7	45.8	42.5	42.5	32.7	19.6	9.8	0.0	0.0
72°	572.3	297.6	55.6	32.7	32.7	29.4	22.9	16.4	6.5	0.0	0.0
72.5°	470.9	238.7	52.3	32.7	29.4	29.4	22.9	16.4	6.5	0.0	0.0
75°	170.1	98.1	36.0	22.9	19.6	19.6	16.4	9.8	3.3	0.0	0.0
77.5°	85.0	62.1	29.4	19.6	16.4	9.8	9.8	6.5	3.3	0.0	0.0
80°	52.3	39.2	16.4	13.1	9.8	6.5	3.3	3.3	0.0	0.0	0.0
82.5°	36.0	22.9	9.8	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0
85°	22.9	9.8	6.5	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	6.5	3.3	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)