

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: P483218

Luminaire Tested: **IFLD-L-SA8B-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483218
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

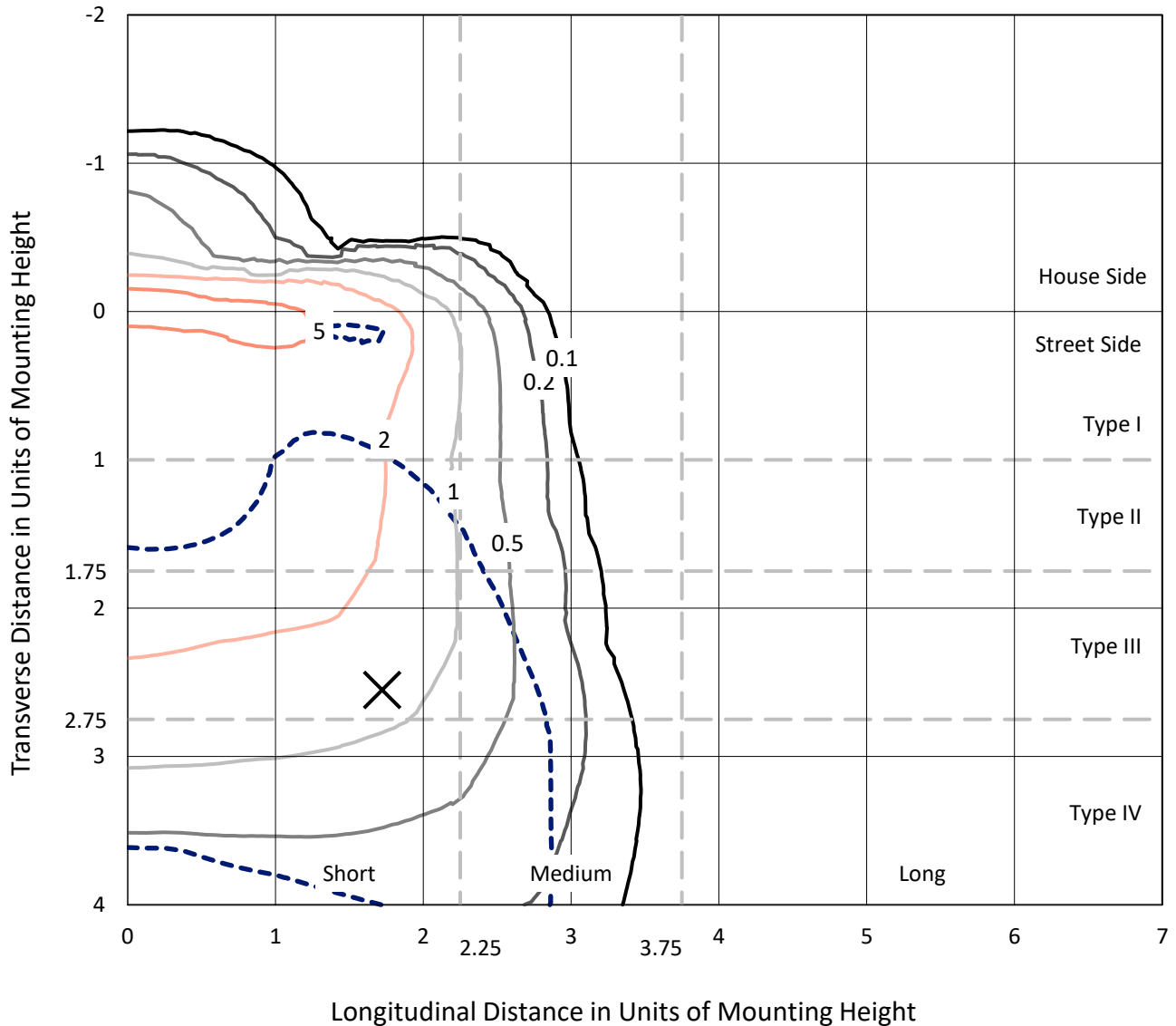
Lumens per Lamp: N/A
Luminaire Lumens: 29025.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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: P483218
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

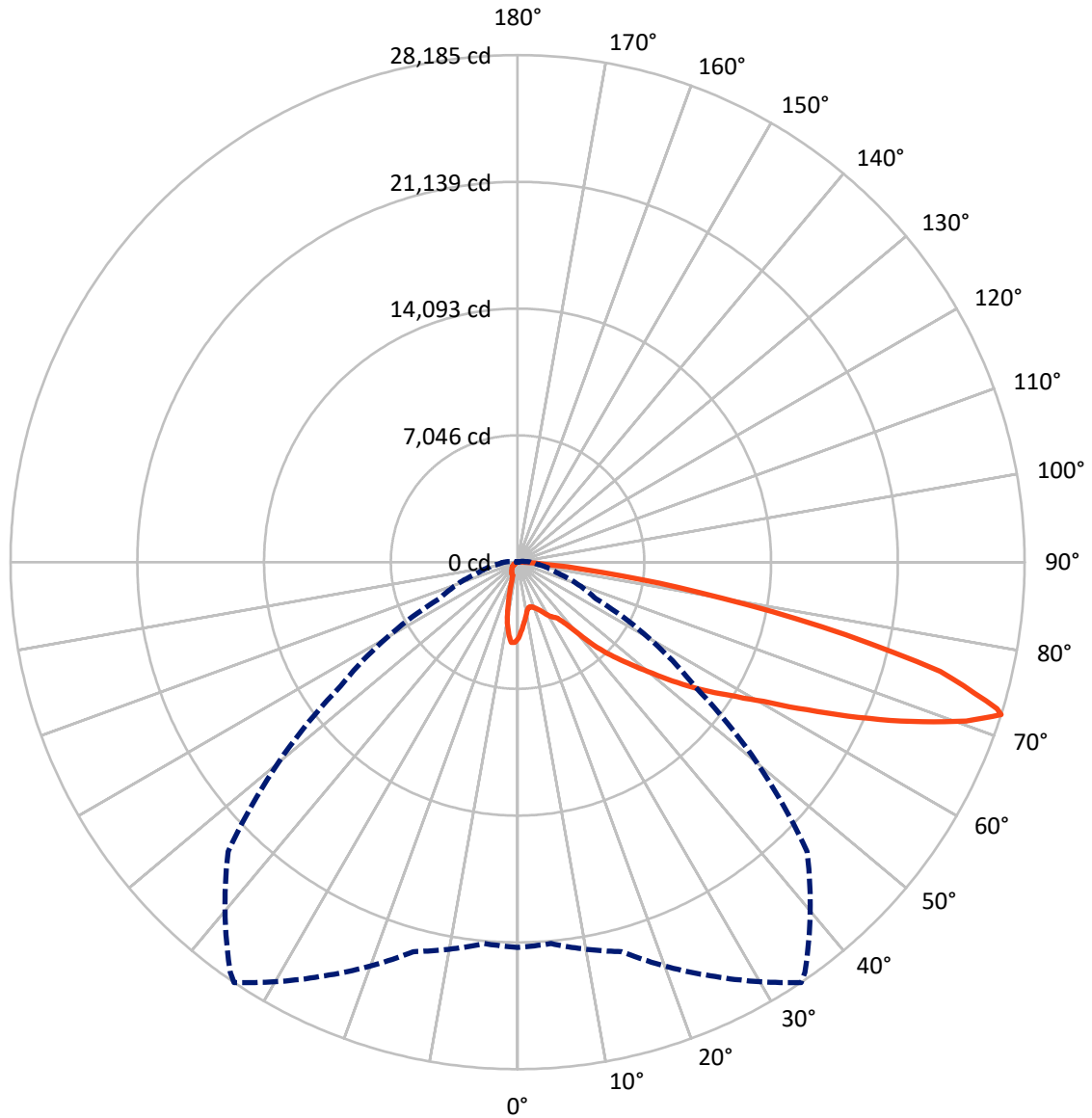
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483218
CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483218
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.5	0.0	2971.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	26054.0	0.0	26054.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	29025.5	0.0	29025.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	1.3
10°-20°	834.6	2.9
20°-30°	1259.7	4.3
30°-40°	2044.2	7.0
40°-50°	3844.1	13.2
50°-60°	6285.2	21.7
60°-70°	8355.2	28.8
70°-80°	5595.4	19.3
80°-90°	438.5	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°	29025.5	100.0
0°-180°	29025.5	100.0



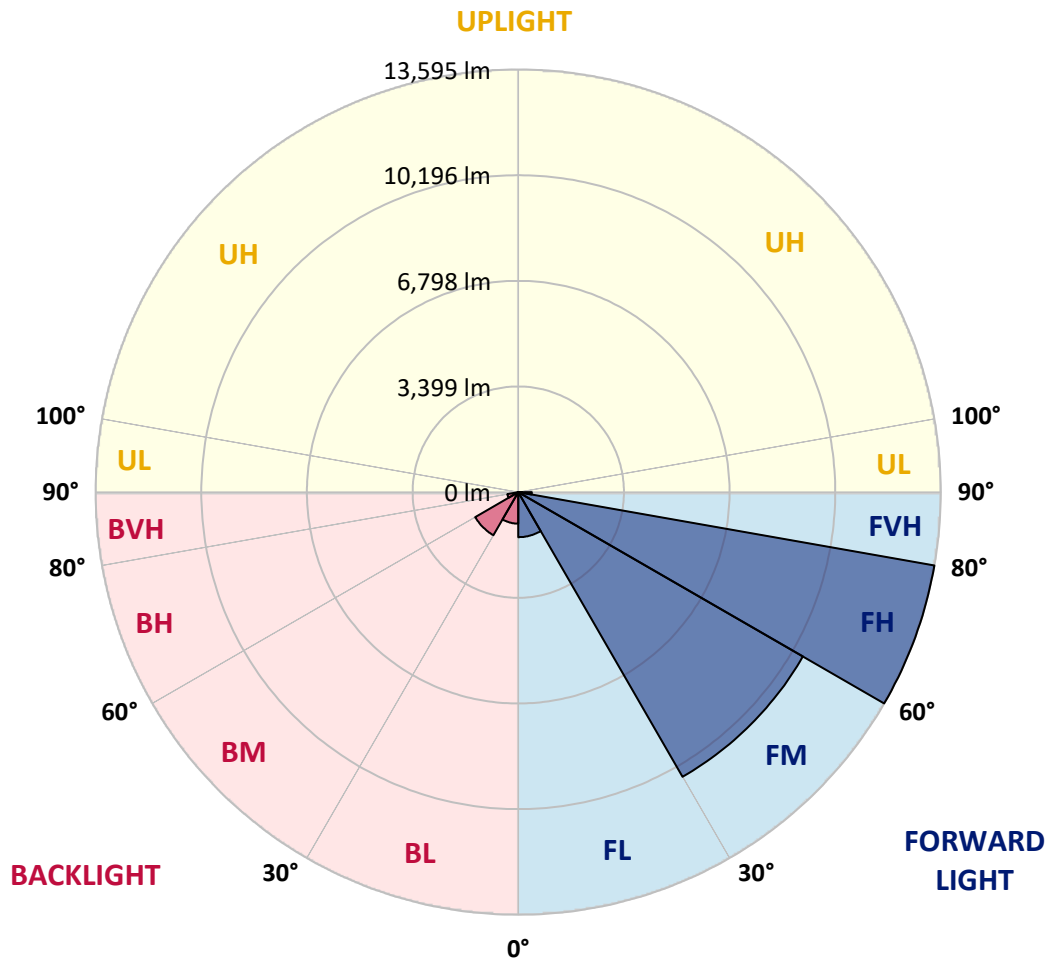
REPORT NUMBER: P483218
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.0	5.0			
FM (30°-60°)	10574.0	36.4			
FH (60°-80°)	13595.3	46.8			G5
FVH (80°-90°)	435.7	1.5			G3/500
BL (0°-30°)	1013.9	3.5	B3/2500		
BM (30°-60°)	1599.5	5.5	B2/2500		
BH (60°-80°)	355.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P483218

CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5
2.5°	3755.5	3747.1	3772.3	3814.3	3856.2	3839.4	3919.2	4003.1	4061.8	4141.6	4238.1
5°	3281.4	3302.3	3327.5	3411.4	3466.0	3478.6	3625.4	3734.5	3915.0	4099.6	4271.6
7.5°	2849.2	2874.3	2924.7	3017.0	3130.3	3159.7	3306.5	3524.7	3759.7	4003.1	4284.2
10°	2534.4	2559.6	2614.2	2672.9	2824.0	2824.0	3025.4	3327.5	3633.8	3919.2	4288.4
12.5°	2467.3	2479.9	2475.7	2521.9	2618.4	2639.4	2836.6	3168.1	3524.7	3889.8	4355.6
15°	2547.0	2555.4	2513.5	2488.3	2572.2	2593.2	2777.8	3071.5	3453.4	3906.6	4464.7
17.5°	2706.5	2677.1	2593.2	2555.4	2626.8	2639.4	2811.4	3067.4	3445.0	3952.7	4590.5
20°	2798.8	2832.4	2685.5	2614.2	2714.9	2731.7	2916.3	3134.5	3487.0	4032.5	4766.8
22.5°	2962.5	2979.2	2782.0	2735.9	2832.4	2832.4	3042.2	3268.8	3587.7	4162.5	4976.6
25°	3193.2	3172.3	2941.5	2895.3	2987.6	3025.4	3235.2	3482.8	3742.9	4284.2	5169.6
27.5°	3373.7	3386.3	3197.4	3075.7	3231.0	3256.2	3482.8	3713.6	3860.4	4384.9	5404.6
30°	3642.2	3617.0	3415.6	3277.2	3470.2	3474.4	3692.6	3931.8	4087.0	4565.4	5757.1
32.5°	3961.1	3910.8	3680.0	3482.8	3638.0	3675.8	3898.2	4246.5	4439.5	4905.2	6302.6
35°	4636.7	4515.0	4137.4	3831.0	3843.6	3860.4	4204.5	4703.8	4926.2	5337.4	7032.7
37.5°	5622.8	5572.4	5144.4	4561.2	4338.8	4288.4	4674.5	5308.1	5585.0	5908.1	7981.0
40°	6600.5	6529.1	6130.5	5689.9	5287.1	5186.4	5379.4	6109.5	6361.3	6701.2	8954.5
42.5°	7687.3	7561.4	7091.4	6734.8	6483.0	6373.9	6298.4	7116.6	7401.9	7632.7	9907.0
45°	8786.6	8581.0	7901.3	7628.5	7494.2	7435.5	7427.1	8383.8	8555.9	8602.0	10964.4
47.5°	9751.8	9529.4	8912.5	8606.2	8505.5	8488.7	8958.7	9844.1	9709.8	9588.1	12143.5
50°	10494.5	10351.8	9907.0	9797.9	9722.4	9693.0	10792.4	11346.3	10725.2	10511.2	13180.0
52.5°	11644.2	11325.3	10821.8	10859.5	11123.9	11128.1	12651.3	12772.9	11568.7	11144.9	14157.7
55°	12563.1	12353.3	11942.1	11887.6	12584.1	12659.7	14317.1	13855.5	12038.6	11749.1	14518.5
57.5°	13645.7	13549.2	13251.3	13259.7	13989.8	14149.3	15798.3	14770.3	12428.9	12139.3	14573.1
60°	15210.9	14933.9	14778.7	14850.0	15710.2	15865.5	17233.4	15429.1	12617.7	12395.3	14438.8
62.5°	16939.7	16616.6	16448.7	16813.8	18068.4	18093.6	18324.4	16012.3	12500.2	12462.4	13574.4
65°	19020.9	18702.0	18567.8	19302.1	20791.7	20699.4	19856.0	16259.9	12126.7	11786.9	11304.3
67.5°	21093.8	20900.8	20623.9	21794.6	23649.3	23649.3	21446.3	16167.6	11149.1	9462.2	7393.5
70°	22075.7	22210.0	22650.6	24488.5	26456.4	26255.0	23015.6	15106.0	8299.9	5081.5	2907.9
72°	21421.1	21282.7	22419.8	25369.7	28185.2	27853.8	22751.3	12009.3	4796.1	2228.1	1011.3
72.5°	20296.6	20426.6	21991.8	25248.0	27862.1	28134.9	22105.1	11077.7	3944.3	1775.0	763.7
75°	12445.7	12668.0	16415.2	21437.9	24278.7	23972.4	17099.1	5278.7	1514.8	755.3	272.7
77.5°	4544.4	4729.0	7964.2	13490.5	17267.0	17074.0	9894.4	1875.7	822.4	562.3	138.5
80°	1183.3	1279.8	2706.5	6222.8	10154.6	10167.2	4141.6	751.1	558.1	461.6	83.9
82.5°	235.0	260.2	830.8	2421.2	4745.8	4682.9	1309.2	402.8	419.6	377.6	58.7
85°	29.4	37.8	176.2	822.4	1535.8	1376.3	323.1	201.4	310.5	293.7	37.8
87.5°	4.2	4.2	42.0	188.8	323.1	314.7	67.1	62.9	138.5	180.4	21.0
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: P483218

CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5	4246.5
2.5°	4292.6	4309.4	4368.1	4418.5	4477.2	4494.0	4468.9	4510.8	4452.1	4485.6	4494.0
5°	4301.0	4397.5	4506.6	4578.0	4561.2	4519.2	4485.6	4372.3	4292.6	4263.2	4326.2
7.5°	4359.8	4468.9	4586.3	4586.3	4494.0	4275.8	4066.0	3864.6	3696.8	3612.8	3684.2
10°	4435.3	4548.6	4670.3	4510.8	4166.7	3768.1	3470.2	3092.5	2836.6	2702.3	2714.9
12.5°	4536.0	4695.4	4737.4	4368.1	3797.5	3205.8	2664.5	2140.0	1896.6	1703.6	1707.8
15°	4666.1	4821.3	4695.4	4057.6	3327.5	2454.7	1804.3	1305.0	1112.0	1011.3	1011.3
17.5°	4838.1	4955.6	4682.9	3772.3	2693.9	1678.4	1107.8	881.2	839.2	822.4	822.4
20°	5039.5	5127.6	4561.2	3327.5	2001.5	1078.4	814.0	788.9	793.1	784.7	784.7
22.5°	5266.1	5295.5	4422.7	2811.4	1355.3	797.3	759.5	763.7	767.9	759.5	763.7
25°	5505.3	5425.6	4221.3	2207.2	902.2	725.9	734.3	742.7	746.9	751.1	751.1
27.5°	5773.8	5614.4	3940.1	1615.5	704.9	684.0	709.1	734.3	738.5	738.5	734.3
30°	6168.3	5903.9	3667.4	1095.2	621.0	637.8	679.8	709.1	730.1	730.1	725.9
32.5°	6667.6	6206.0	3285.6	746.9	574.9	583.3	616.8	675.6	721.7	725.9	713.3
35°	7360.0	6571.1	2886.9	595.8	541.3	545.5	566.5	612.6	692.4	717.5	713.3
37.5°	8090.1	6986.5	2391.8	537.1	516.1	511.9	524.5	562.3	633.6	696.6	700.7
40°	8866.4	7422.9	1871.5	507.7	495.1	486.7	490.9	507.7	562.3	642.0	658.8
42.5°	9596.5	7817.3	1405.7	478.4	474.2	465.8	465.8	470.0	499.3	553.9	562.3
45°	10385.4	8140.4	1070.0	457.4	444.8	449.0	432.2	423.8	444.8	449.0	444.8
47.5°	11123.9	8463.5	856.0	432.2	419.6	419.6	398.6	381.8	381.8	344.1	339.9
50°	11816.2	8639.8	684.0	398.6	394.4	390.2	360.9	331.5	306.3	260.2	251.8
52.5°	12391.1	8631.4	528.7	356.7	369.3	356.7	310.5	268.6	230.8	188.8	180.4
55°	12563.1	8228.6	398.6	293.7	314.7	297.9	247.6	209.8	167.8	134.3	130.1
57.5°	12416.3	7615.9	302.1	226.6	243.4	226.6	188.8	155.3	117.5	92.3	83.9
60°	11925.3	6898.4	235.0	176.2	184.6	172.0	142.7	117.5	83.9	58.7	50.4
62.5°	10993.8	6000.4	180.4	138.5	134.3	134.3	109.1	88.1	58.7	33.6	29.4
65°	9021.6	4678.7	138.5	96.5	96.5	96.5	83.9	62.9	37.8	16.8	8.4
67.5°	5664.7	2723.3	113.3	75.5	71.3	71.3	58.7	42.0	21.0	4.2	0.0
70°	2131.6	998.7	88.1	58.7	54.5	54.5	42.0	25.2	12.6	0.0	0.0
72°	734.3	381.8	71.3	42.0	42.0	37.8	29.4	21.0	8.4	0.0	0.0
72.5°	604.2	306.3	67.1	42.0	37.8	37.8	29.4	21.0	8.4	0.0	0.0
75°	218.2	125.9	46.2	29.4	25.2	25.2	21.0	12.6	4.2	0.0	0.0
77.5°	109.1	79.7	37.8	25.2	21.0	12.6	12.6	8.4	4.2	0.0	0.0
80°	67.1	50.4	21.0	16.8	12.6	8.4	4.2	4.2	0.0	0.0	0.0
82.5°	46.2	29.4	12.6	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0
85°	29.4	12.6	8.4	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	8.4	4.2	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)