

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: P483295

Luminaire Tested: **IFLD-L-SA8A-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

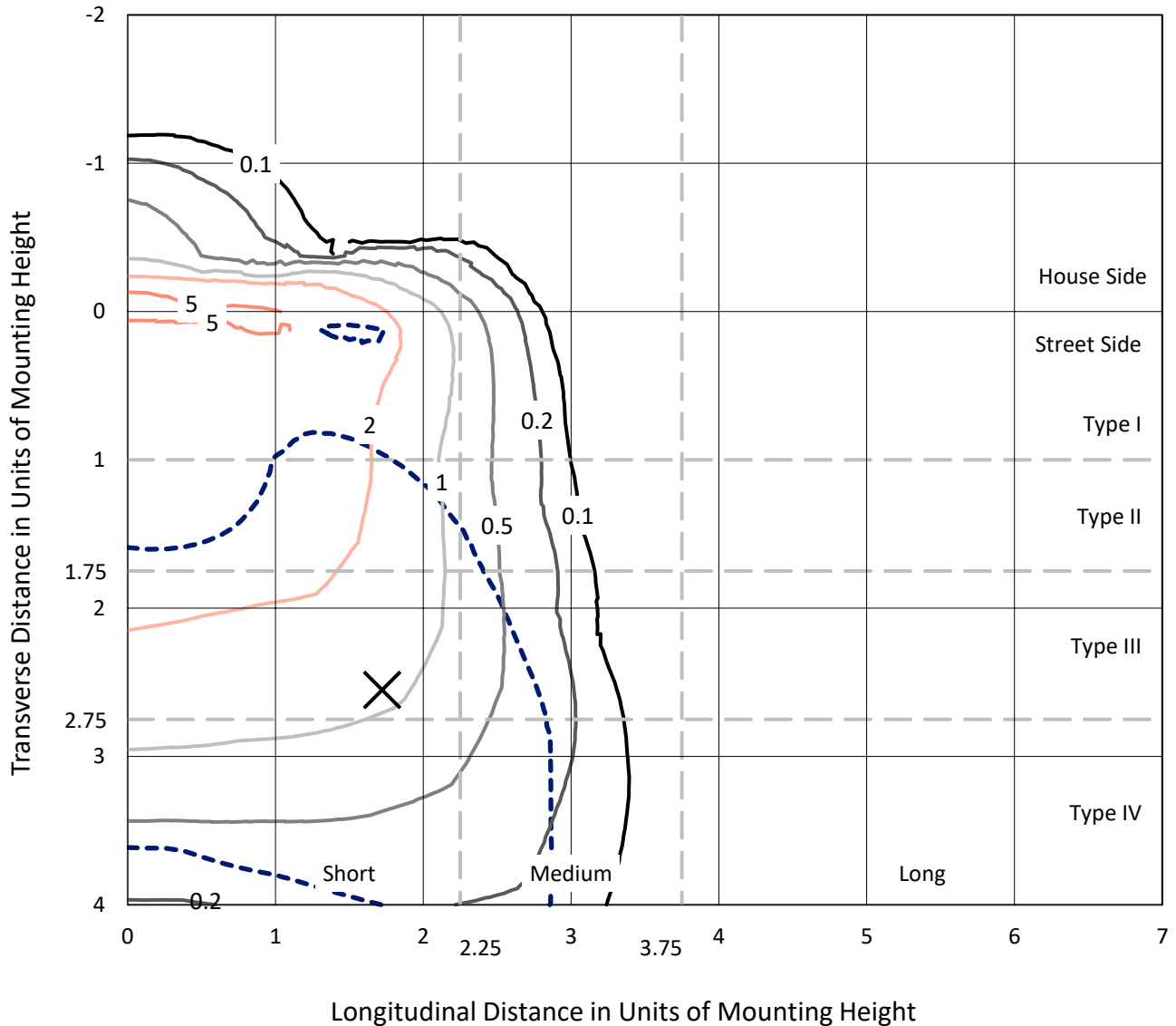
Lumens per Lamp: N/A
Luminaire Lumens: 25337.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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: P483295
 CATALOG NUMBER: IFLD-L-SA8A-750-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

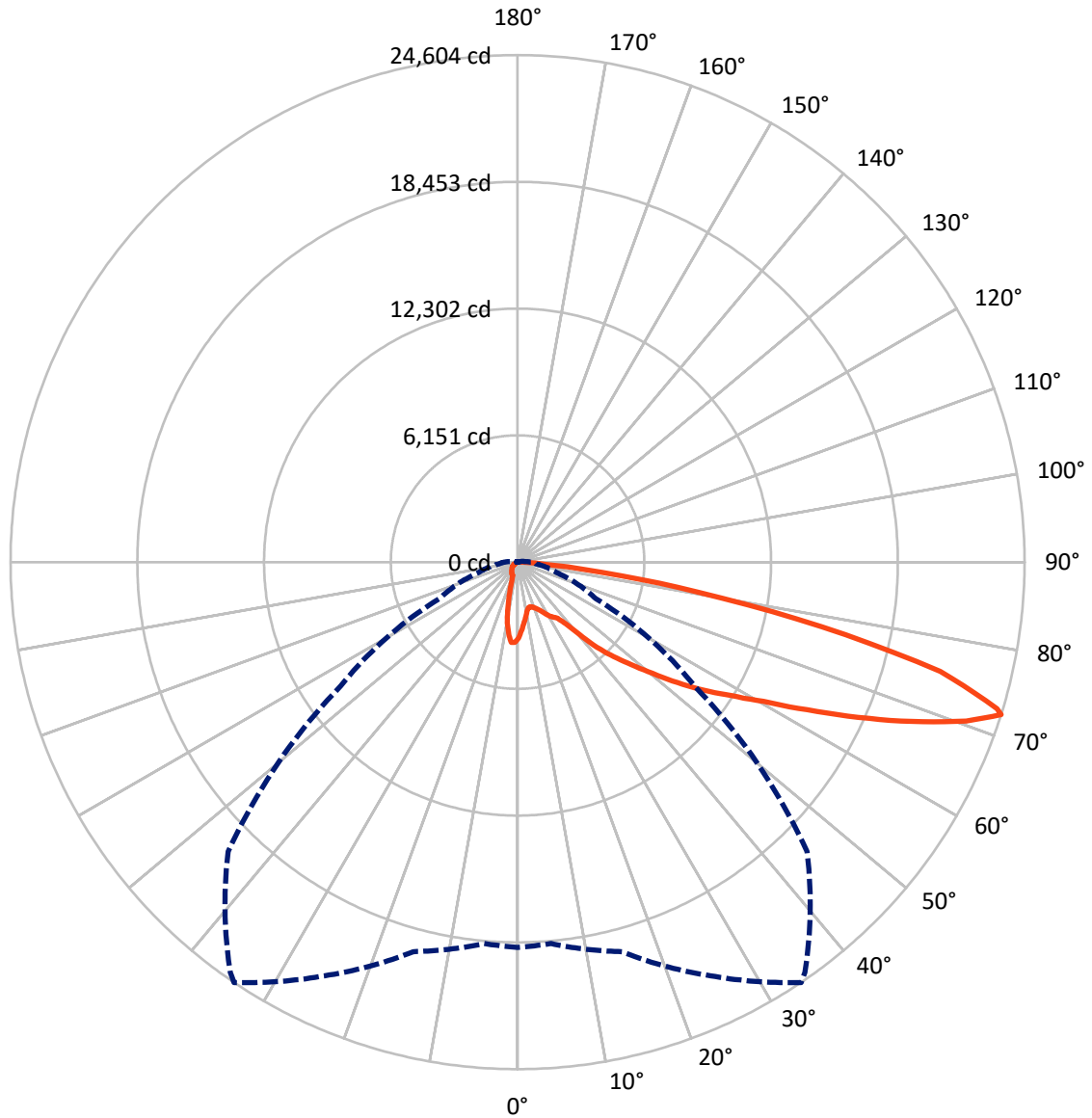
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483295
CATALOG NUMBER: IFLD-L-SA8A-750-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483295
 CATALOG NUMBER: IFLD-L-SA8A-750-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2594.0	0.0	2594.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	22743.5	0.0	22743.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	25337.5	0.0	25337.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	1.3
10°-20°	728.5	2.9
20°-30°	1099.6	4.3
30°-40°	1784.5	7.0
40°-50°	3355.7	13.2
50°-60°	5486.6	21.7
60°-70°	7293.6	28.8
70°-80°	4884.5	19.3
80°-90°	382.8	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°	25337.5	100.0
0°-180°	25337.5	100.0

Coefficient of Utilization



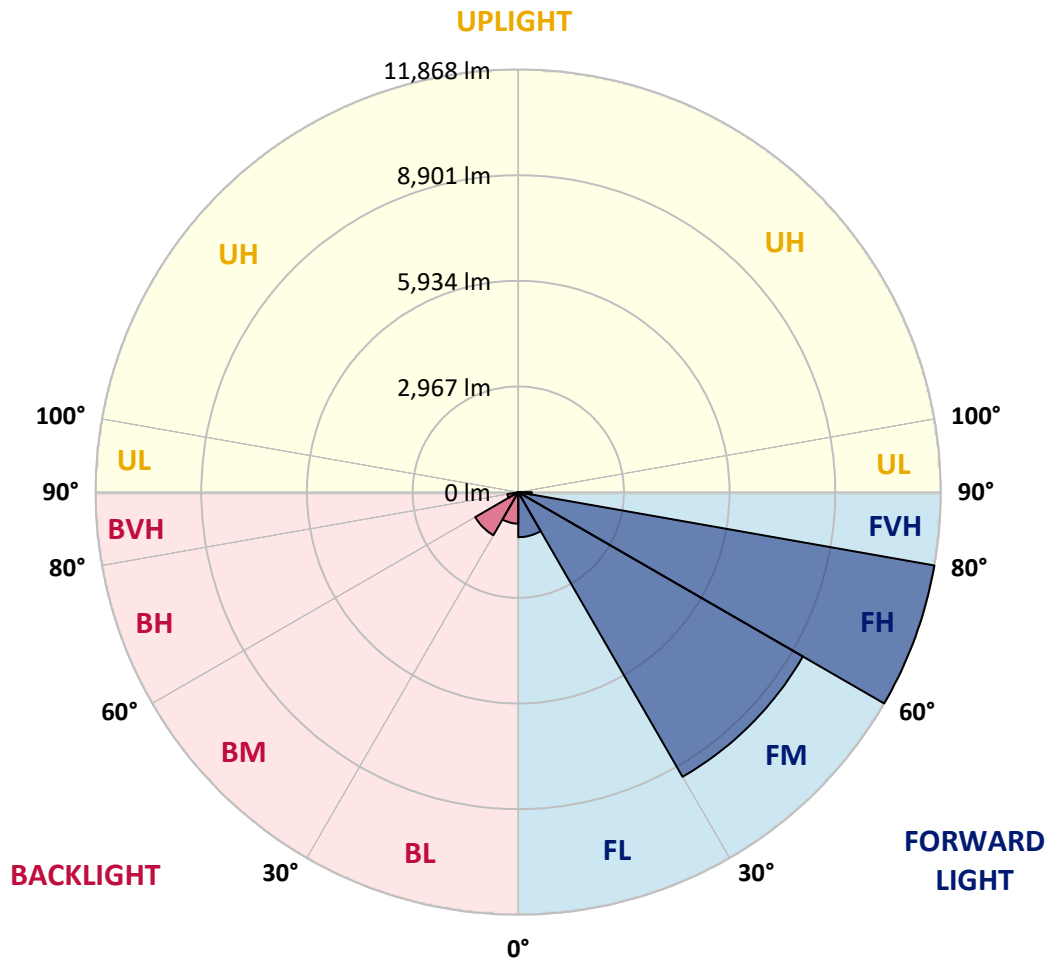
REPORT NUMBER: P483295
 CATALOG NUMBER: IFLD-L-SA8A-750-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.9	5.0			
FM (30°-60°)	9230.4	36.4			
FH (60°-80°)	11867.9	46.8			G4/12000
FVH (80°-90°)	380.4	1.5			G3/500
BL (0°-30°)	885.1	3.5	B2/1000		
BM (30°-60°)	1396.3	5.5	B2/2500		
BH (60°-80°)	310.2	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





REPORT NUMBER: P483295

CATALOG NUMBER: IFLD-L-SA8A-750-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9
2.5°	3278.3	3271.0	3293.0	3329.6	3366.2	3351.6	3421.2	3494.4	3545.7	3615.3	3699.6
5°	2864.4	2882.7	2904.7	2978.0	3025.6	3036.6	3164.8	3260.0	3417.5	3578.7	3728.9
7.5°	2487.1	2509.1	2553.1	2633.7	2732.6	2758.2	2886.4	3076.9	3282.0	3494.4	3739.9
10°	2212.4	2234.4	2282.0	2333.3	2465.2	2465.2	2641.0	2904.7	3172.1	3421.2	3743.5
12.5°	2153.8	2164.8	2161.1	2201.4	2285.7	2304.0	2476.1	2765.5	3076.9	3395.5	3802.1
15°	2223.4	2230.7	2194.1	2172.1	2245.4	2263.7	2424.9	2681.3	3014.6	3410.2	3897.4
17.5°	2362.6	2337.0	2263.7	2230.7	2293.0	2304.0	2454.2	2677.6	3007.3	3450.5	4007.3
20°	2443.2	2472.5	2344.3	2282.0	2369.9	2384.6	2545.7	2736.2	3043.9	3520.1	4161.1
22.5°	2586.0	2600.7	2428.5	2388.2	2472.5	2472.5	2655.6	2853.4	3131.8	3633.6	4344.2
25°	2787.5	2769.2	2567.7	2527.4	2608.0	2641.0	2824.1	3040.2	3267.3	3739.9	4512.7
27.5°	2945.0	2956.0	2791.2	2684.9	2820.5	2842.4	3040.2	3241.7	3369.9	3827.8	4717.9
30°	3179.4	3157.5	2981.6	2860.8	3029.3	3032.9	3223.4	3432.2	3567.7	3985.3	5025.6
32.5°	3457.8	3413.9	3212.4	3040.2	3175.8	3208.7	3402.9	3706.9	3875.4	4282.0	5501.7
35°	4047.5	3941.3	3611.7	3344.3	3355.3	3369.9	3670.3	4106.2	4300.3	4659.3	6139.1
37.5°	4908.3	4864.4	4490.8	3981.6	3787.5	3743.5	4080.5	4633.6	4875.4	5157.4	6966.9
40°	5761.8	5699.5	5351.6	4966.9	4615.3	4527.4	4695.9	5333.2	5553.0	5849.7	7816.7
42.5°	6710.5	6600.6	6190.4	5879.0	5659.2	5564.0	5498.1	6212.3	6461.4	6662.9	8648.2
45°	7670.2	7490.7	6897.3	6659.2	6542.0	6490.7	6483.4	7318.6	7468.7	7509.0	9571.3
47.5°	8512.7	8318.5	7780.1	7512.7	7424.8	7410.1	7820.4	8593.3	8476.0	8369.8	10600.6
50°	9161.0	9036.5	8648.2	8553.0	8487.0	8461.4	9421.1	9904.6	9362.5	9175.7	11505.3
52.5°	10164.7	9886.3	9446.7	9479.7	9710.5	9714.1	11043.8	11150.0	10098.7	9728.8	12358.8
55°	10966.8	10783.7	10424.7	10377.1	10985.2	11051.1	12498.0	12095.0	10509.0	10256.2	12673.8
57.5°	11911.9	11827.6	11567.6	11574.9	12212.2	12351.4	13791.0	12893.6	10849.6	10596.9	12721.4
60°	13278.2	13036.4	12900.9	12963.1	13714.1	13849.6	15043.7	13468.6	11014.5	10820.3	12604.2
62.5°	14787.3	14505.2	14358.7	14677.4	15772.6	15794.6	15996.1	13977.8	10911.9	10878.9	11849.6
65°	16604.1	16325.7	16208.5	16849.5	18149.9	18069.3	17333.0	14193.9	10585.9	10289.2	9868.0
67.5°	18413.6	18245.1	18003.4	19025.3	20644.3	20644.3	18721.3	14113.3	9732.4	8259.9	6454.1
70°	19270.7	19387.9	19772.6	21376.9	23094.8	22919.0	20091.2	13186.6	7245.3	4435.8	2538.4
72°	18699.3	18578.4	19571.1	22146.1	24604.0	24314.6	19860.5	10483.3	4186.7	1945.0	882.8
72.5°	17717.6	17831.2	19197.5	22039.9	24321.9	24560.0	19296.4	9670.2	3443.2	1549.4	666.7
75°	10864.3	11058.4	14329.4	18714.0	21193.8	20926.4	14926.5	4608.0	1322.3	659.3	238.1
77.5°	3967.0	4128.1	6952.3	11776.4	15073.0	14904.5	8637.2	1637.3	717.9	490.8	120.9
80°	1032.9	1117.2	2362.6	5432.1	8864.3	8875.3	3615.3	655.7	487.2	402.9	73.3
82.5°	205.1	227.1	725.3	2113.5	4142.8	4087.8	1142.8	351.6	366.3	329.7	51.3
85°	25.6	33.0	153.8	717.9	1340.6	1201.4	282.0	175.8	271.1	256.4	33.0
87.5°	3.7	3.7	36.6	164.8	282.0	274.7	58.6	54.9	120.9	157.5	18.3
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: P483295

CATALOG NUMBER: IFLD-L-SA8A-750-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9	3706.9
2.5°	3747.2	3761.8	3813.1	3857.1	3908.4	3923.0	3901.0	3937.7	3886.4	3915.7	3923.0
5°	3754.5	3838.8	3934.0	3996.3	3981.6	3945.0	3915.7	3816.8	3747.2	3721.5	3776.5
7.5°	3805.8	3901.0	4003.6	4003.6	3923.0	3732.5	3549.4	3373.6	3227.1	3153.8	3216.1
10°	3871.7	3970.6	4076.9	3937.7	3637.3	3289.3	3029.3	2699.6	2476.1	2358.9	2369.9
12.5°	3959.6	4098.8	4135.5	3813.1	3315.0	2798.5	2326.0	1868.1	1655.6	1487.2	1490.8
15°	4073.2	4208.7	4098.8	3542.1	2904.7	2142.8	1575.1	1139.2	970.7	882.8	882.8
17.5°	4223.4	4325.9	4087.8	3293.0	2351.6	1465.2	967.0	769.2	732.6	717.9	717.9
20°	4399.2	4476.1	3981.6	2904.7	1747.2	941.4	710.6	688.6	692.3	685.0	685.0
22.5°	4597.0	4622.6	3860.7	2454.2	1183.1	696.0	663.0	666.7	670.3	663.0	666.7
25°	4805.8	4736.2	3684.9	1926.7	787.5	633.7	641.0	648.3	652.0	655.7	655.7
27.5°	5040.2	4901.0	3439.5	1410.2	615.4	597.1	619.0	641.0	644.7	644.7	641.0
30°	5384.5	5153.8	3201.4	956.0	542.1	556.8	593.4	619.0	637.4	637.4	633.7
32.5°	5820.4	5417.5	2868.1	652.0	501.8	509.1	538.5	589.7	630.0	633.7	622.7
35°	6424.8	5736.2	2520.1	520.1	472.5	476.2	494.5	534.8	604.4	626.4	622.7
37.5°	7062.2	6098.8	2087.9	468.9	450.5	446.9	457.9	490.8	553.1	608.0	611.7
40°	7739.8	6479.7	1633.7	443.2	432.2	424.9	428.6	443.2	490.8	560.4	575.1
42.5°	8377.1	6824.1	1227.1	417.6	413.9	406.6	406.6	410.2	435.9	483.5	490.8
45°	9065.8	7106.1	934.0	399.3	388.3	391.9	377.3	370.0	388.3	391.9	388.3
47.5°	9710.5	7388.2	747.2	377.3	366.3	366.3	348.0	333.3	333.3	300.4	296.7
50°	10314.8	7542.0	597.1	348.0	344.3	340.7	315.0	289.4	267.4	227.1	219.8
52.5°	10816.7	7534.7	461.5	311.3	322.3	311.3	271.1	234.4	201.5	164.8	157.5
55°	10966.8	7183.0	348.0	256.4	274.7	260.1	216.1	183.1	146.5	117.2	113.6
57.5°	10838.6	6648.2	263.7	197.8	212.5	197.8	164.8	135.5	102.6	80.6	73.3
60°	10410.1	6021.9	205.1	153.8	161.2	150.2	124.5	102.6	73.3	51.3	44.0
62.5°	9596.9	5238.0	157.5	120.9	117.2	117.2	95.2	76.9	51.3	29.3	25.6
65°	7875.3	4084.2	120.9	84.2	84.2	84.2	73.3	54.9	33.0	14.7	7.3
67.5°	4945.0	2377.2	98.9	65.9	62.3	62.3	51.3	36.6	18.3	3.7	0.0
70°	1860.8	871.8	76.9	51.3	47.6	47.6	36.6	22.0	11.0	0.0	0.0
72°	641.0	333.3	62.3	36.6	36.6	33.0	25.6	18.3	7.3	0.0	0.0
72.5°	527.5	267.4	58.6	36.6	33.0	33.0	25.6	18.3	7.3	0.0	0.0
75°	190.5	109.9	40.3	25.6	22.0	22.0	18.3	11.0	3.7	0.0	0.0
77.5°	95.2	69.6	33.0	22.0	18.3	11.0	11.0	7.3	3.7	0.0	0.0
80°	58.6	44.0	18.3	14.7	11.0	7.3	3.7	3.7	0.0	0.0	0.0
82.5°	40.3	25.6	11.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
85°	25.6	11.0	7.3	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	7.3	3.7	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)