

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: P483686

Luminaire Tested: **IFLD-L-SA8B-750-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483686  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-750-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

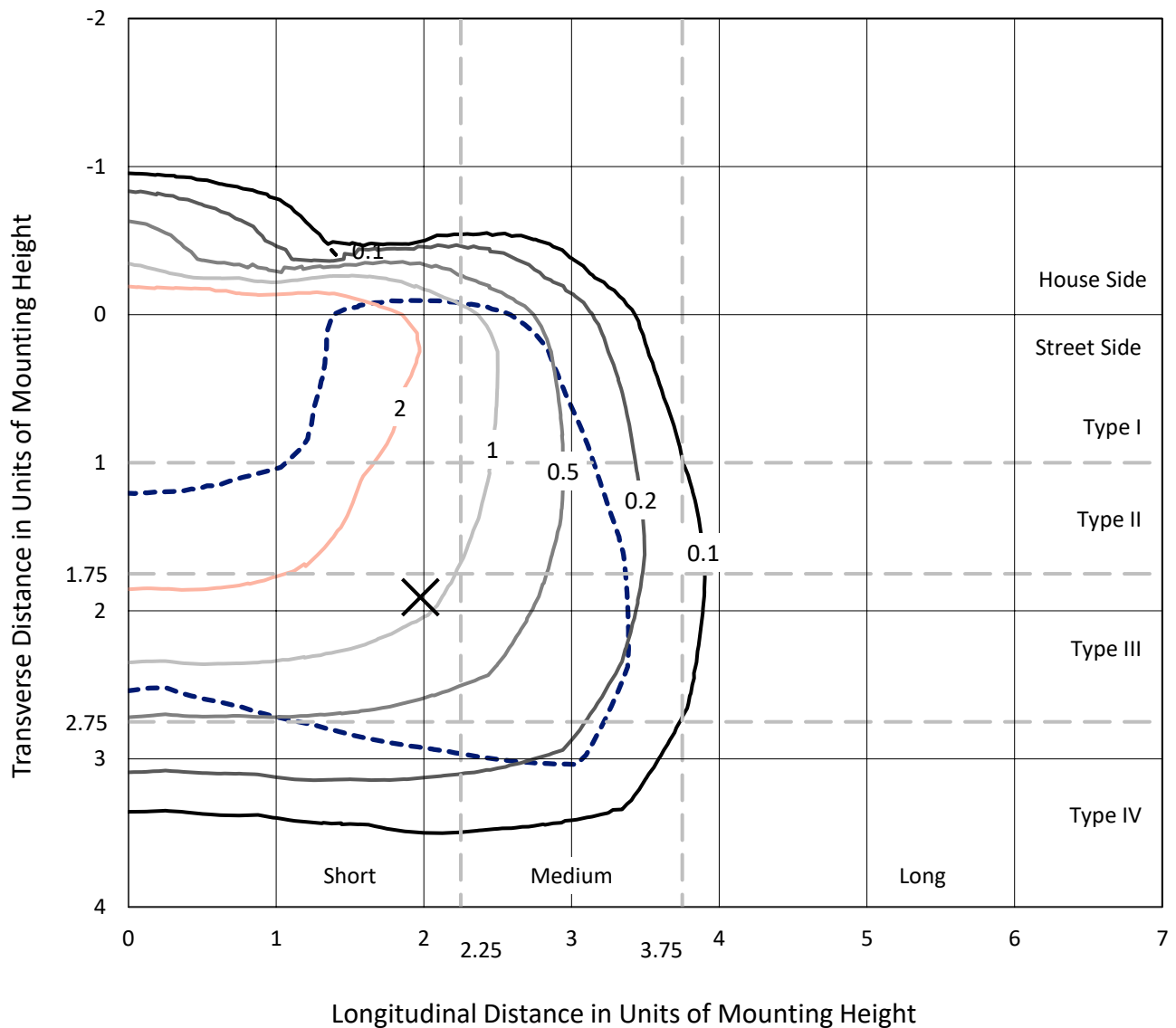
Lumens per Lamp: N/A  
Luminaire Lumens: 30716.6 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

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

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 CATALOG NUMBER: IFLD-L-SA8B-750-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

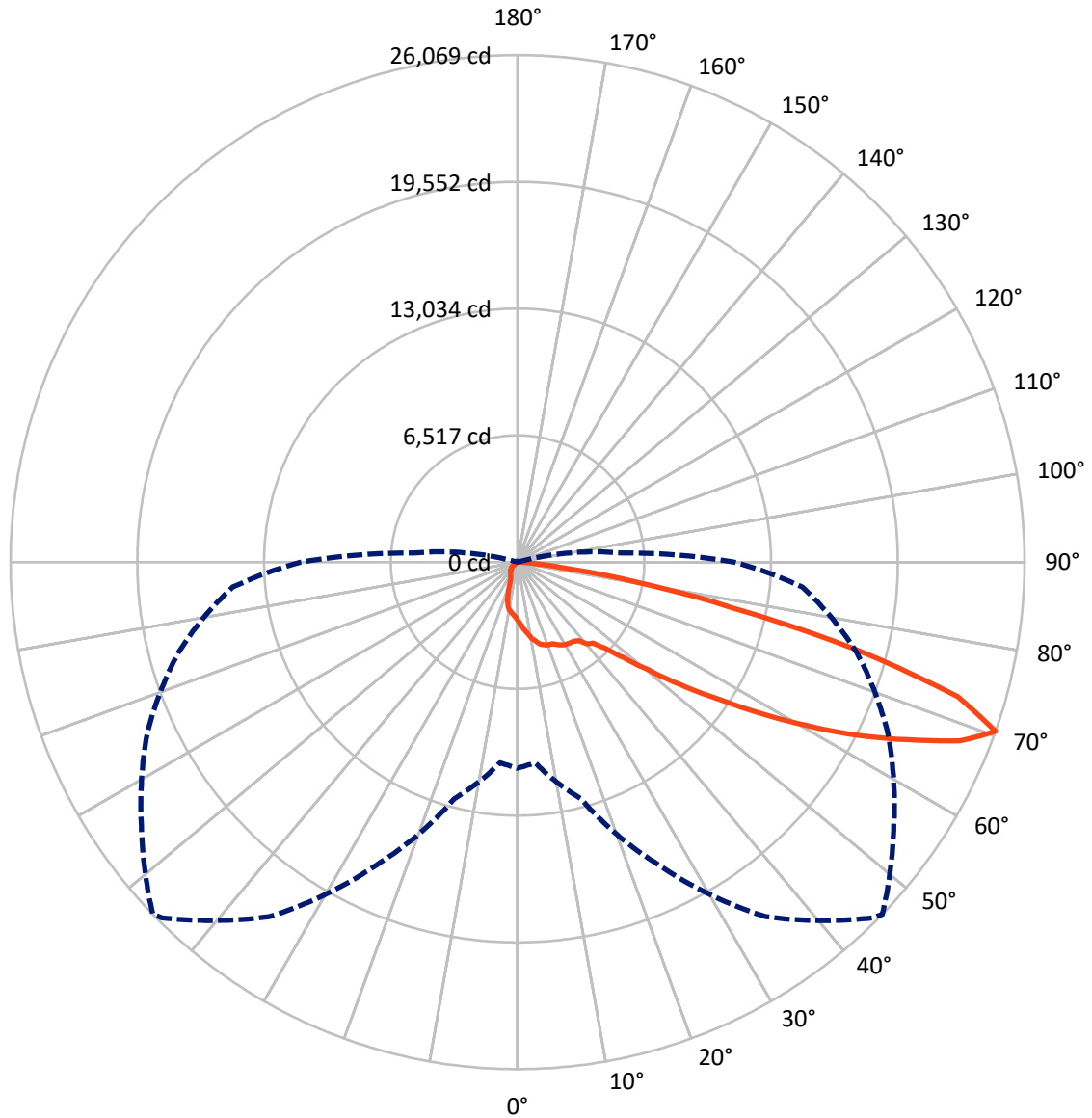
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483686  
CATALOG NUMBER: IFLD-L-SA8B-750-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3056.4	0.0	3056.4
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	27660.2	0.0	27660.2
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	30716.6	0.0	30716.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.7	1.0
10°-20°	908.0	3.0
20°-30°	1454.4	4.7
30°-40°	2076.0	6.8
40°-50°	3584.7	11.7
50°-60°	6863.2	22.3
60°-70°	10163.3	33.1
70°-80°	5033.8	16.4
80°-90°	332.6	1.1
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°	30716.6	100.0
0°-180°	30716.6	100.0

**Coefficient of Utilization**



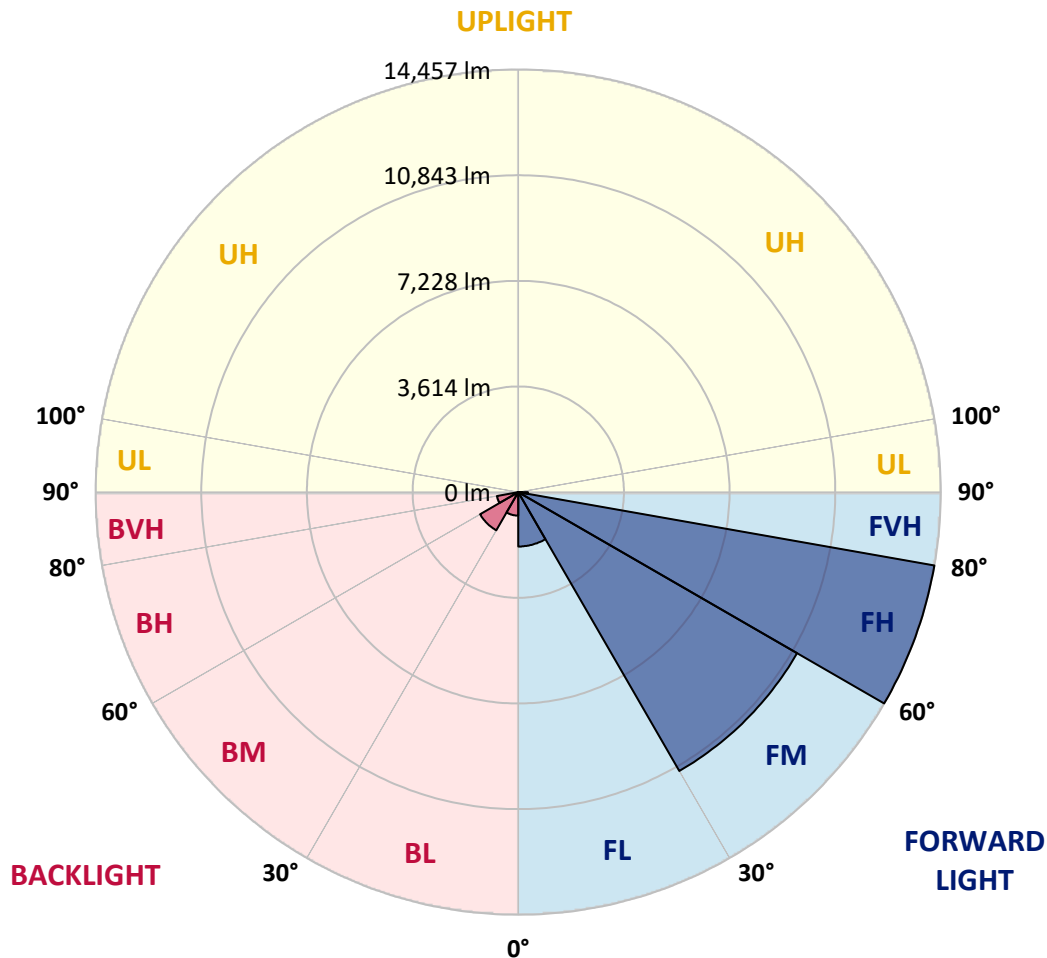
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 CATALOG NUMBER: IFLD-L-SA8B-750-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.1	6.1			
FM (30°-60°)	11014.9	35.9			
FH (60°-80°)	14456.8	47.1			G5
FVH (80°-90°)	328.4	1.1			G3/500
BL (0°-30°)	803.0	2.6	B2/1000		
BM (30°-60°)	1508.9	4.9	B2/2500		
BH (60°-80°)	740.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.2	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-G5**

Type IV Short





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CATALOG NUMBER: IFLD-L-SA8B-750-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4
2.5°	3364.7	3342.6	3307.2	3294.0	3258.6	3240.9	3214.4	3201.1	3152.5	3103.8	3072.9
5°	3775.9	3722.8	3740.5	3687.5	3572.5	3479.7	3475.2	3373.5	3263.0	3174.6	3055.2
7.5°	4191.5	4147.3	4081.0	4005.8	3877.6	3740.5	3700.7	3603.5	3448.7	3294.0	3134.8
10°	4505.4	4474.5	4417.0	4310.9	4134.0	3979.3	3983.7	3820.1	3656.5	3479.7	3263.0
12.5°	4700.0	4713.2	4629.2	4523.1	4368.4	4173.8	4169.4	4058.9	3873.2	3687.5	3431.0
15°	4894.5	4943.2	4814.9	4691.1	4492.2	4350.7	4377.2	4244.6	4063.3	3851.1	3568.1
17.5°	4925.5	4938.7	4912.2	4730.9	4585.0	4465.6	4470.1	4381.6	4244.6	4014.7	3771.5
20°	4872.4	4863.6	4832.6	4700.0	4602.7	4532.0	4536.4	4514.3	4439.1	4253.4	3921.8
22.5°	4717.7	4717.7	4677.9	4589.4	4545.2	4611.5	4558.5	4642.5	4562.9	4452.4	4178.2
25°	4593.9	4642.5	4620.4	4562.9	4580.6	4669.0	4695.6	4775.1	4761.9	4624.8	4355.1
27.5°	4726.5	4669.0	4682.3	4616.0	4682.3	4814.9	4828.2	4885.7	4881.3	4770.7	4514.3
30°	4814.9	4868.0	4766.3	4620.4	4691.1	4916.6	4907.8	4982.9	5018.3	4885.7	4664.6
32.5°	5097.9	5053.7	4969.7	4775.1	4784.0	4912.2	4952.0	5049.3	5071.4	4991.8	4810.5
35°	5677.1	5610.8	5243.8	4952.0	4907.8	4969.7	4996.2	5186.3	5226.1	5137.7	4965.3
37.5°	6570.2	6419.9	5977.8	5332.2	5133.3	5120.0	5120.0	5372.0	5522.4	5319.0	5195.2
40°	7848.0	7635.8	7158.3	6035.2	5429.5	5482.6	5535.6	5672.7	5655.0	5522.4	5495.8
42.5°	9475.1	9311.5	8794.2	7215.8	5995.5	5730.2	5686.0	5871.7	6150.2	6097.1	6079.5
45°	10832.5	10841.3	10509.7	8834.0	6972.6	6300.5	6331.5	6473.0	6941.6	6901.8	6897.4
47.5°	11822.9	11699.1	11650.5	10394.8	8396.3	7383.8	7339.6	7436.8	8047.0	8299.0	8414.0
50°	12724.9	12640.9	12525.9	11911.3	10107.4	8741.2	8696.9	8705.8	9638.7	9992.4	10275.4
52.5°	13843.5	13949.6	13569.4	13193.5	12322.5	10505.3	10456.7	10284.2	11442.7	11929.0	12265.0
55°	15223.0	15024.0	14595.1	14789.7	14440.4	12410.9	12322.5	12119.1	13498.6	13702.0	14055.7
57.5°	15528.1	15377.7	15819.9	16509.6	16845.6	14648.2	14612.8	14245.8	15227.4	15041.7	16040.9
60°	16288.5	16328.3	16942.9	18313.6	18897.2	17230.3	17057.9	16412.3	16903.1	16938.5	18004.1
62.5°	17071.1	16978.3	18353.3	19670.9	20568.5	19675.4	19617.9	18335.7	18892.8	18441.8	19852.2
65°	16496.3	16637.8	18605.4	20811.7	22735.0	22067.3	22018.7	20188.2	20493.3	19931.8	20603.9
67.5°	14453.6	14166.3	16920.8	20289.9	23849.2	24574.3	24521.2	22208.8	21395.3	19923.0	19043.1
70°	10593.7	10346.1	12592.2	17181.7	22253.0	25856.5	26068.7	23614.8	21028.3	18066.0	14692.4
72.5°	5190.8	5195.2	7056.6	11650.5	17606.1	23566.2	23672.3	21651.7	18066.0	13317.3	8321.1
75°	1534.2	1551.9	2613.1	5712.5	11380.8	17897.9	18017.3	16434.4	12521.5	6879.7	2838.6
77.5°	561.5	561.5	866.6	2144.4	5677.1	11296.7	11287.9	10089.7	6340.3	2330.1	663.2
80°	291.8	305.1	451.0	875.4	2458.3	5884.9	6106.0	4938.7	2409.7	981.6	194.5
82.5°	119.4	132.6	247.6	451.0	1180.5	2064.8	2259.3	1936.6	1047.9	685.3	88.4
85°	35.4	39.8	119.4	252.0	464.2	517.3	574.8	649.9	658.8	530.6	39.8
87.5°	4.4	4.4	48.6	84.0	101.7	110.5	128.2	128.2	336.0	371.4	22.1
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°	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4	3015.4
2.5°	3037.5	3015.4	2980.0	2900.5	2882.8	2825.3	2820.9	2767.8	2785.5	2750.1	2736.9
5°	3015.4	2966.8	2869.5	2807.6	2745.7	2705.9	2679.4	2657.3	2652.9	2635.2	2626.3
7.5°	3055.2	2988.9	2838.6	2741.3	2635.2	2599.8	2542.3	2537.9	2506.9	2476.0	2476.0
10°	3187.8	3068.5	2904.9	2741.3	2604.2	2489.3	2356.6	2259.3	2224.0	2144.4	2153.2
12.5°	3294.0	3187.8	2949.1	2781.1	2573.3	2312.4	2020.6	1795.1	1689.0	1587.3	1627.1
15°	3444.3	3289.5	3033.1	2789.9	2453.9	2002.9	1525.4	1273.4	1176.1	1154.0	1149.6
17.5°	3607.9	3444.3	3139.2	2767.8	2210.7	1547.5	1123.0	977.1	994.8	1021.3	1016.9
20°	3789.2	3590.2	3218.8	2692.6	1826.0	1123.0	919.7	915.2	941.8	981.6	990.4
22.5°	3979.3	3806.8	3316.1	2467.2	1361.8	902.0	884.3	884.3	902.0	950.6	941.8
25°	4191.5	3961.6	3364.7	2117.9	977.1	831.2	840.1	857.8	866.6	906.4	910.8
27.5°	4355.1	4134.0	3378.0	1697.8	795.9	769.3	791.4	813.5	826.8	857.8	871.0
30°	4505.4	4350.7	3307.2	1264.5	729.5	716.3	725.1	756.1	782.6	809.1	809.1
32.5°	4695.6	4474.5	3143.6	897.5	689.7	667.6	663.2	676.5	707.4	738.4	738.4
35°	4890.1	4682.3	2882.8	720.7	654.4	623.4	605.7	592.5	605.7	627.8	645.5
37.5°	5173.1	4996.2	2555.6	663.2	627.8	583.6	548.3	517.3	495.2	490.8	504.0
40°	5575.4	5349.9	2135.5	623.4	596.9	543.8	490.8	437.7	389.1	358.1	362.6
42.5°	6185.6	5871.7	1680.1	601.3	574.8	499.6	424.5	349.3	287.4	256.4	256.4
45°	7056.6	6561.4	1233.6	579.2	548.3	446.6	349.3	260.9	199.0	181.3	185.7
47.5°	8369.8	7392.6	884.3	543.8	512.9	389.1	274.1	185.7	145.9	137.1	141.5
50°	10085.3	8378.6	689.7	504.0	468.7	327.2	203.4	137.1	115.0	110.5	115.0
52.5°	11884.8	9373.4	605.7	468.7	402.3	260.9	150.3	110.5	97.3	92.8	97.3
55°	13423.5	10014.5	526.1	415.6	322.8	194.5	119.4	97.3	84.0	70.7	70.7
57.5°	14979.8	10337.3	415.6	344.9	238.8	145.9	101.7	84.0	70.7	57.5	53.1
60°	16244.3	10567.2	296.2	256.4	168.0	115.0	88.4	75.2	57.5	44.2	39.8
62.5°	17075.6	9908.4	216.6	194.5	123.8	97.3	75.2	61.9	44.2	30.9	30.9
65°	16664.4	8997.6	168.0	137.1	92.8	75.2	61.9	44.2	30.9	17.7	13.3
67.5°	14953.3	7330.7	137.1	101.7	70.7	57.5	48.6	35.4	17.7	4.4	4.4
70°	11155.3	5372.0	110.5	75.2	57.5	44.2	35.4	22.1	8.8	4.4	0.0
72.5°	6101.6	2940.2	88.4	61.9	44.2	35.4	26.5	17.7	8.8	0.0	0.0
75°	2016.2	782.6	66.3	44.2	26.5	22.1	17.7	13.3	4.4	0.0	0.0
77.5°	486.4	203.4	53.1	39.8	22.1	13.3	8.8	4.4	4.4	0.0	0.0
80°	150.3	84.0	39.8	26.5	17.7	13.3	4.4	0.0	0.0	0.0	0.0
82.5°	61.9	39.8	17.7	17.7	13.3	4.4	0.0	0.0	0.0	0.0	0.0
85°	30.9	22.1	13.3	8.8	8.8	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	8.8	4.4	4.4	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)