

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: P482476

Luminaire Tested: **IFLD-L-SA8A-740-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482476
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

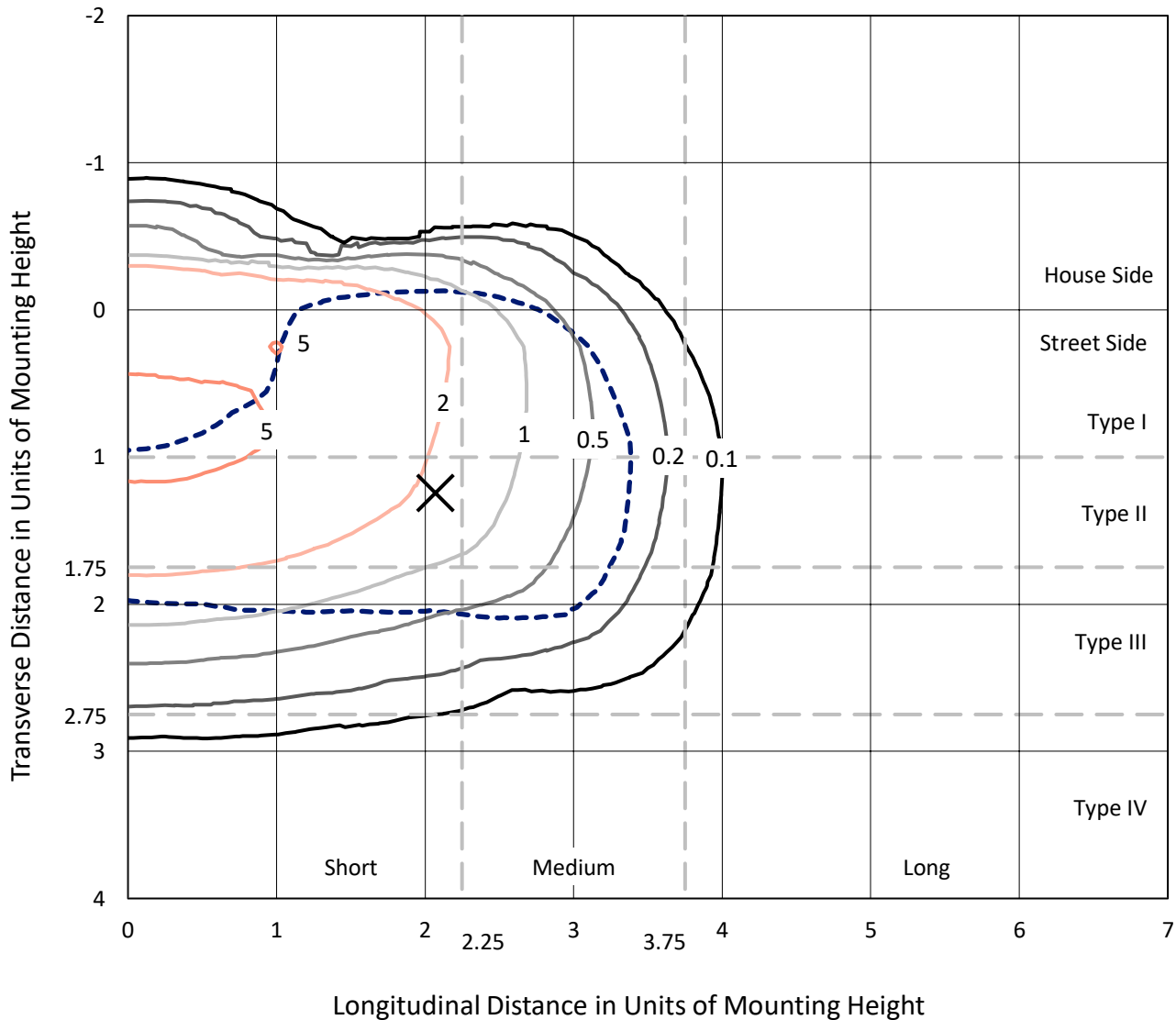
Lumens per Lamp: N/A
Luminaire Lumens: 25419 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

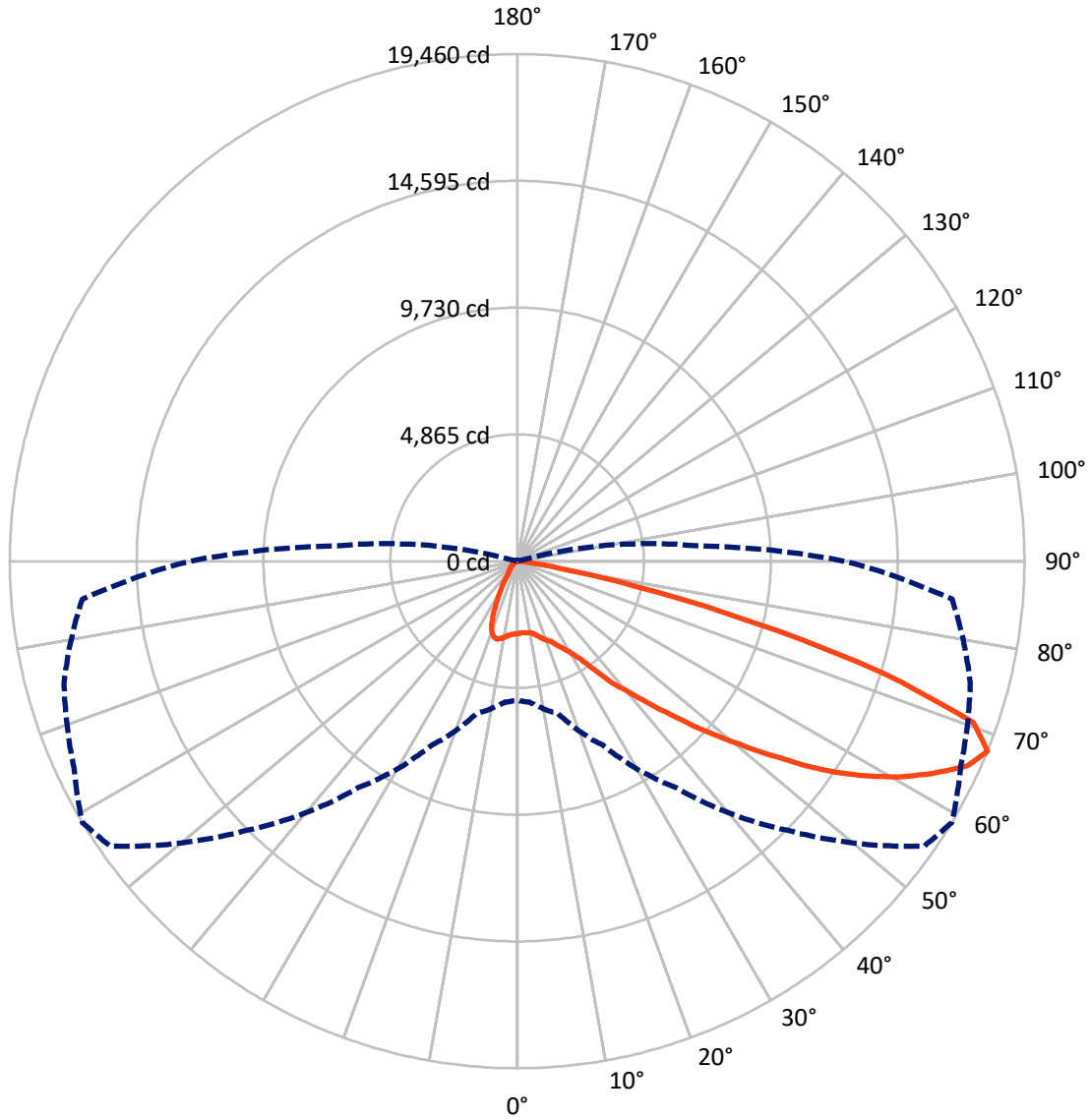
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2985.9	0.0	2985.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	22433.1	0.0	22433.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	25419.0	0.0	25419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	1.0
10°-20°	765.0	3.0
20°-30°	1337.0	5.3
30°-40°	2354.0	9.3
40°-50°	4161.1	16.4
50°-60°	6588.4	25.9
60°-70°	7308.4	28.8
70°-80°	2535.8	10.0
80°-90°	104.4	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°	25419.0	100.0
0°-180°	25419.0	100.0

Coefficient of Utilization

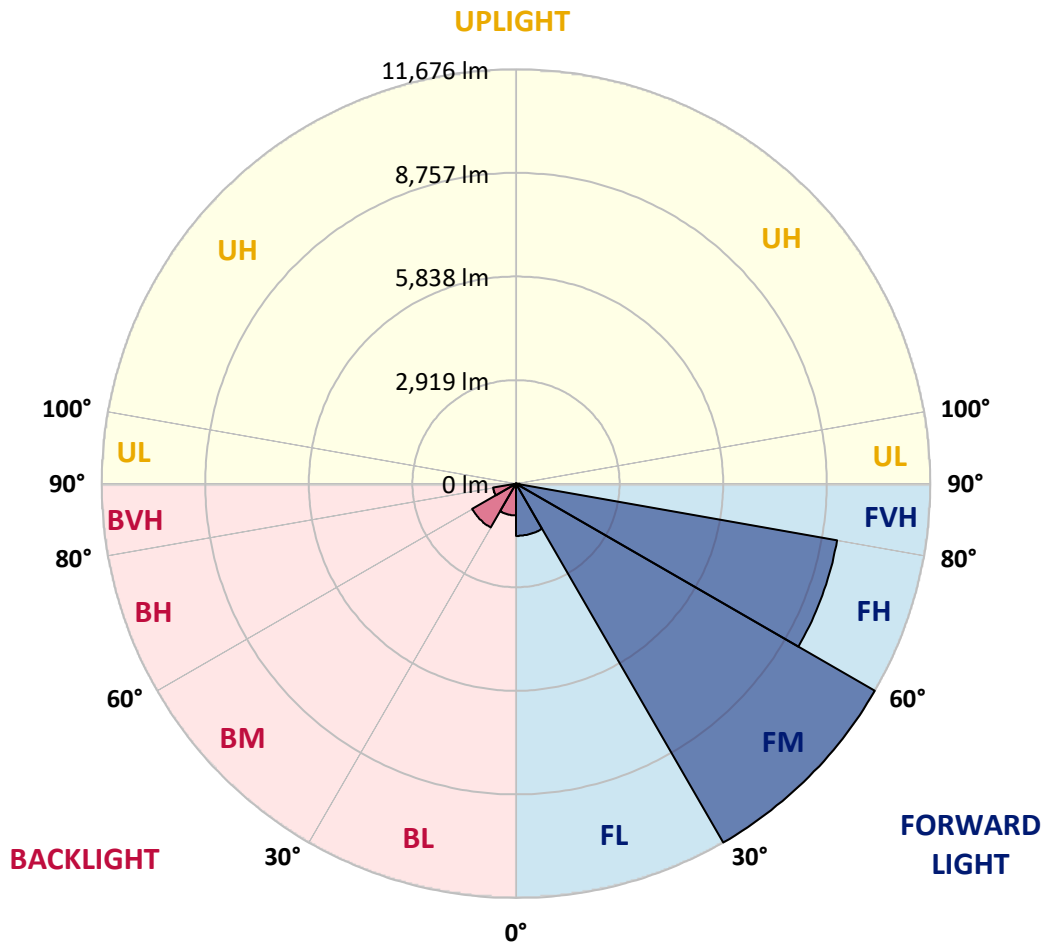


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.9	5.8			
FM (30°-60°)	11675.9	45.9			
FH (60°-80°)	9187.6	36.1			G4/12000
FVH (80°-90°)	97.7	0.4			G1/100
BL (0°-30°)	894.9	3.5	B2/1000		
BM (30°-60°)	1427.6	5.6	B2/2500		
BH (60°-80°)	656.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0
2.5°	2707.2	2668.6	2703.7	2707.2	2710.8	2742.4	2777.5	2752.9	2749.4	2777.5	2802.0
5°	2598.4	2580.8	2623.0	2644.0	2679.2	2707.2	2763.4	2766.9	2770.4	2802.0	2844.2
7.5°	2552.7	2510.6	2559.8	2584.3	2608.9	2675.6	2742.4	2777.5	2826.6	2865.3	2907.4
10°	2461.4	2493.1	2507.1	2549.2	2619.5	2696.7	2777.5	2795.0	2903.9	2935.5	3037.3
12.5°	2493.1	2514.1	2542.2	2552.7	2630.0	2745.9	2854.7	2861.7	2974.1	3111.0	3163.7
15°	2573.8	2559.8	2570.3	2584.3	2675.6	2770.4	2946.0	2977.6	3083.0	3237.5	3367.4
17.5°	2745.9	2721.3	2703.7	2700.2	2721.3	2809.1	3016.2	3111.0	3209.4	3420.0	3486.8
20°	3177.8	3156.7	3086.5	2903.9	2840.7	2875.8	3100.5	3233.9	3370.9	3606.1	3715.0
22.5°	3834.4	3855.5	3690.4	3434.1	3170.7	3033.8	3233.9	3349.8	3567.5	3866.0	3964.3
25°	4610.4	4568.3	4368.1	4069.6	3655.3	3332.3	3448.1	3578.1	3844.9	4090.7	4129.3
27.5°	5217.8	5168.7	5014.2	4652.5	4294.4	3771.2	3729.0	3809.8	4125.8	4347.0	4304.9
30°	5818.3	5835.8	5730.5	5302.1	4859.7	4308.4	4041.6	4076.7	4318.9	4603.4	4508.6
32.5°	6583.8	6541.6	6481.9	6106.2	5583.0	4993.1	4536.7	4480.5	4585.8	4961.5	4849.2
35°	7296.6	7272.0	7191.2	6812.0	6355.5	5712.9	5267.0	5140.6	5116.0	5533.9	5337.2
37.5°	7918.1	7875.9	7753.0	7510.8	7068.3	6527.6	6039.5	5927.1	5923.6	6211.6	5832.3
40°	8441.3	8472.9	8458.8	8192.0	7949.7	7517.8	6769.9	6590.8	6576.7	6731.2	6510.0
42.5°	9118.9	9192.7	9154.1	9101.4	8809.9	8641.4	7795.2	7521.3	7398.4	7714.4	7514.3
45°	10144.3	10172.3	10196.9	10067.0	9775.6	9810.7	8855.6	8529.0	8497.4	8968.0	8518.5
47.5°	11102.9	11029.1	11201.2	11208.2	11194.1	11032.6	10000.3	9758.0	9800.1	10158.3	9694.8
50°	11341.6	11531.2	12005.3	12093.1	12321.3	12468.8	11271.4	11029.1	11099.3	11506.7	10976.4
52.5°	11527.7	11815.7	12289.7	12932.3	13546.7	13897.9	12693.5	12496.9	12493.3	12742.6	12012.3
55°	11854.3	12029.8	12440.7	13325.5	14494.8	15070.7	14407.0	14091.0	13806.6	13982.2	13086.8
57.5°	11822.7	11889.4	12528.5	13620.5	15246.2	16292.6	15815.1	15513.1	15147.9	15046.1	14322.8
60°	11267.9	11425.9	12142.2	13420.3	15709.7	17244.2	17128.3	16819.3	16190.8	15952.0	15270.8
62.5°	10168.8	10379.5	10941.3	12718.1	15035.6	17293.3	18034.2	17918.4	17216.1	16787.7	16506.8
65°	8241.1	8339.4	8985.5	10934.3	13511.6	16538.4	19105.2	18961.2	18315.1	17676.1	17142.4
67.5°	5337.2	5432.0	6053.5	7805.7	10611.3	14589.6	19063.1	19459.8	18761.1	17992.1	16745.6
70°	2521.1	2496.6	3075.9	4336.5	6798.0	11141.5	17774.4	18557.4	17964.0	16310.2	13908.4
72.5°	769.0	835.7	1278.1	1920.7	3490.3	6948.9	13933.0	14666.9	14480.8	13030.6	9284.0
75°	340.6	368.7	502.1	786.5	1415.1	2851.2	8606.3	9259.4	9178.6	7686.3	4238.2
77.5°	217.7	238.8	316.0	449.5	642.6	905.9	3964.3	4599.9	4459.4	2700.2	1109.6
80°	154.5	165.0	224.7	309.0	403.8	372.2	1365.9	1622.2	1555.5	733.9	298.5
82.5°	84.3	91.3	165.0	228.2	270.4	189.6	382.7	477.5	498.6	326.6	144.0
85°	31.6	38.6	101.8	161.5	140.5	87.8	112.4	136.9	179.1	179.1	66.7
87.5°	0.0	3.5	42.1	70.2	35.1	24.6	31.6	38.6	49.2	84.3	24.6
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°	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0	2788.0
2.5°	2819.6	2795.0	2805.6	2823.1	2784.5	2805.6	2763.4	2795.0	2805.6	2763.4	2784.5
5°	2854.7	2879.3	2865.3	2837.2	2812.6	2819.6	2809.1	2784.5	2805.6	2812.6	2798.5
7.5°	2956.5	2928.5	2935.5	2903.9	2854.7	2851.2	2784.5	2766.9	2774.0	2781.0	2756.4
10°	3051.4	3068.9	3033.8	3009.2	2928.5	2875.8	2784.5	2686.2	2675.6	2633.5	2668.6
12.5°	3219.9	3177.8	3163.7	3083.0	3002.2	2826.6	2630.0	2479.0	2352.6	2306.9	2261.3
15°	3360.4	3353.3	3328.7	3205.9	3019.8	2700.2	2328.0	1976.9	1734.6	1583.6	1562.5
17.5°	3553.5	3521.9	3476.2	3283.1	2889.8	2370.2	1734.6	1292.2	1049.9	955.1	920.0
20°	3701.0	3676.4	3613.2	3265.5	2654.6	1766.2	1074.5	821.7	762.0	744.4	747.9
22.5°	3915.1	3837.9	3718.5	3177.8	2226.2	1176.3	772.5	733.9	723.3	709.3	712.8
25°	4101.2	4031.0	3781.7	3026.8	1587.1	779.5	716.3	695.2	677.7	660.1	656.6
27.5°	4266.3	4178.5	3848.4	2717.8	993.7	670.7	663.6	639.1	604.0	575.9	565.3
30°	4427.8	4326.0	3866.0	2138.4	670.7	607.5	589.9	551.3	505.6	467.0	460.0
32.5°	4698.2	4575.3	3841.4	1527.4	579.4	540.7	502.1	456.5	389.8	358.2	351.1
35°	5119.5	4933.4	3809.8	898.9	519.7	477.5	417.8	358.2	309.0	277.4	270.4
37.5°	5604.1	5281.1	3718.5	600.4	477.5	421.4	344.1	284.4	242.3	217.7	210.7
40°	6323.9	5790.2	3367.4	491.6	424.9	358.2	277.4	224.7	193.1	175.6	168.5
42.5°	7117.5	6373.1	2826.6	442.4	375.7	305.5	221.2	182.6	158.0	140.5	140.5
45°	8069.1	6980.5	2180.5	403.8	333.6	252.8	182.6	147.5	126.4	112.4	105.3
47.5°	9129.5	7531.8	1471.3	365.2	280.9	207.2	151.0	112.4	91.3	80.8	80.8
50°	10077.5	8019.9	937.5	319.5	245.8	172.1	122.9	91.3	73.7	59.7	56.2
52.5°	10937.8	8392.1	646.1	280.9	210.7	140.5	101.8	73.7	56.2	45.6	45.6
55°	11819.2	8581.7	477.5	242.3	182.6	119.4	84.3	66.7	49.2	38.6	35.1
57.5°	12542.5	8662.5	365.2	210.7	154.5	94.8	73.7	56.2	42.1	31.6	28.1
60°	13160.5	8623.8	284.4	175.6	122.9	80.8	63.2	45.6	35.1	24.6	21.1
62.5°	13522.2	8392.1	224.7	151.0	98.3	70.2	52.7	38.6	24.6	17.6	14.0
65°	13529.2	7900.5	175.6	112.4	73.7	59.7	45.6	31.6	17.6	7.0	3.5
67.5°	12560.1	6836.6	140.5	87.8	59.7	45.6	35.1	24.6	7.0	0.0	0.0
70°	9824.7	5172.2	115.9	70.2	49.2	38.6	24.6	14.0	3.5	0.0	0.0
72.5°	6260.7	3097.0	94.8	56.2	42.1	28.1	17.6	10.5	0.0	0.0	0.0
75°	2619.5	955.1	73.7	49.2	31.6	21.1	14.0	3.5	0.0	0.0	0.0
77.5°	674.2	302.0	59.7	42.1	31.6	17.6	10.5	3.5	0.0	0.0	0.0
80°	200.1	112.4	49.2	35.1	24.6	14.0	7.0	3.5	0.0	0.0	0.0
82.5°	91.3	66.7	42.1	31.6	21.1	14.0	7.0	0.0	0.0	0.0	0.0
85°	35.1	21.1	21.1	17.6	17.6	10.5	3.5	0.0	0.0	0.0	0.0
87.5°	14.0	7.0	7.0	7.0	3.5	3.5	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)