

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: P482591

Luminaire Tested: **IFLD-L-SA7D-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482591
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

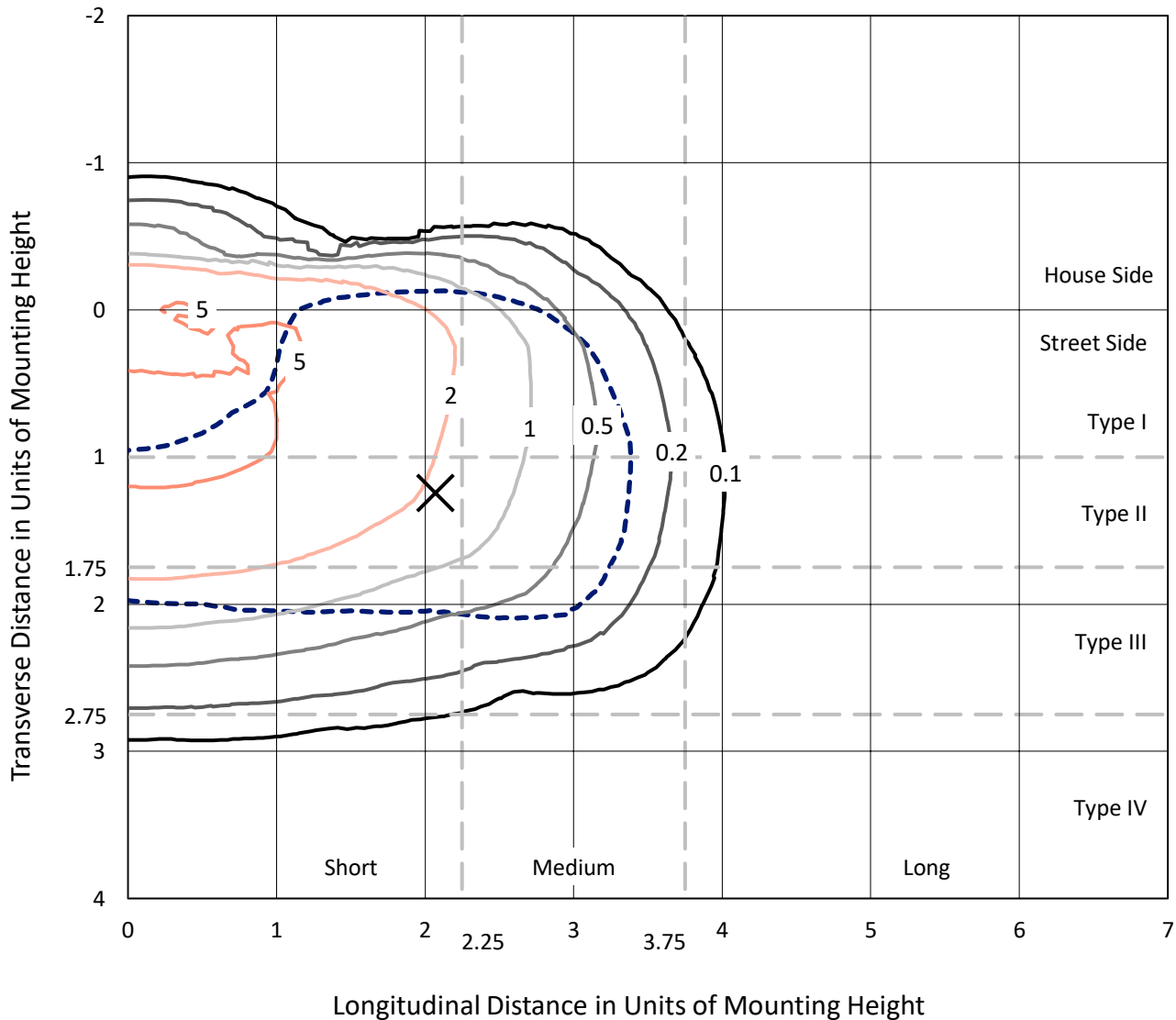
Lumens per Lamp: N/A
Luminaire Lumens: 26607.1 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6
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

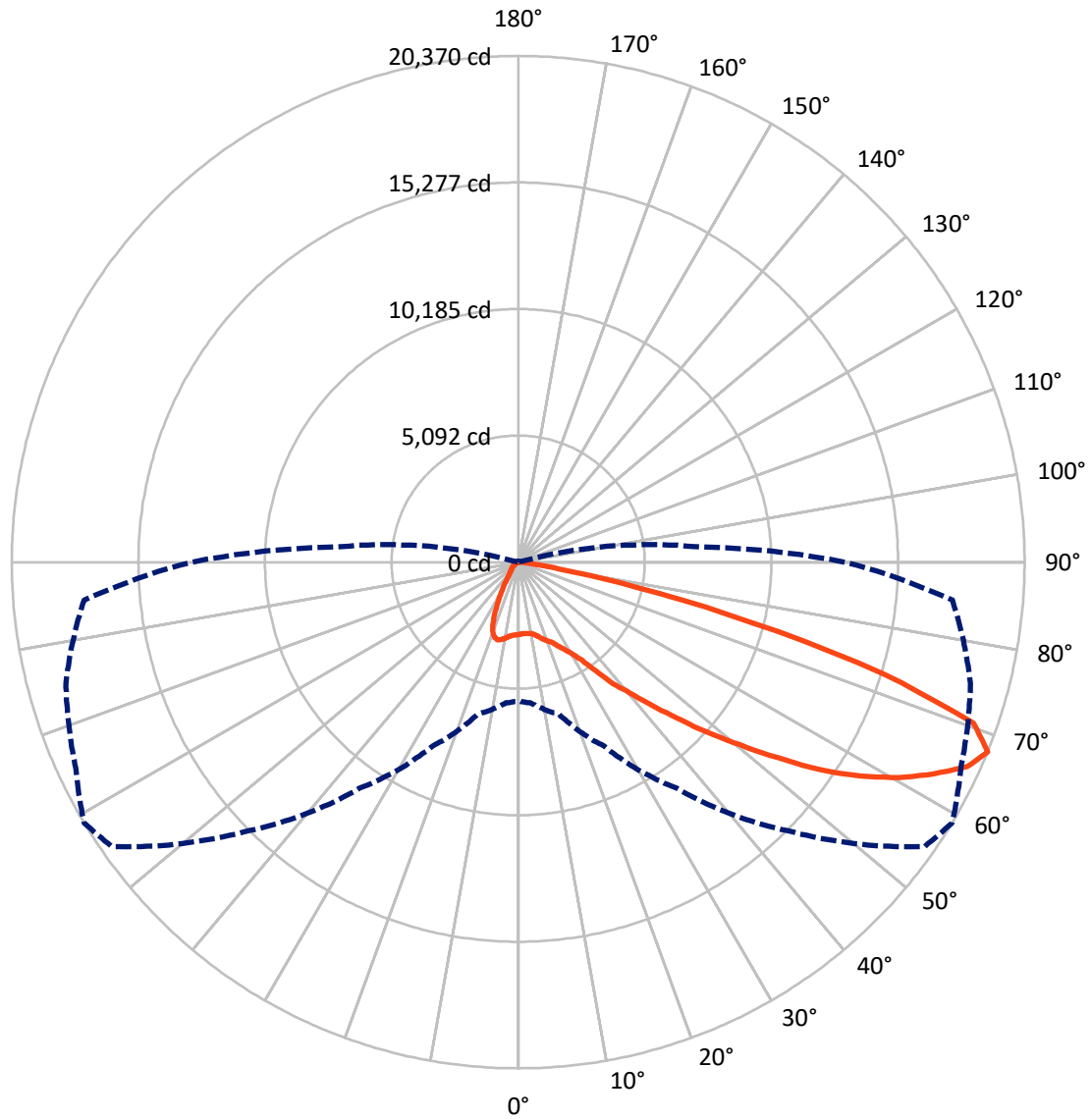
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	3125.5	0.0	3125.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	23481.7	0.0	23481.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	26607.1	0.0	26607.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	1.0
10°-20°	800.7	3.0
20°-30°	1399.5	5.3
30°-40°	2464.0	9.3
40°-50°	4355.6	16.4
50°-60°	6896.4	25.9
60°-70°	7650.0	28.8
70°-80°	2654.4	10.0
80°-90°	109.3	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°	26607.1	100.0
0°-180°	26607.1	100.0

Coefficient of Utilization

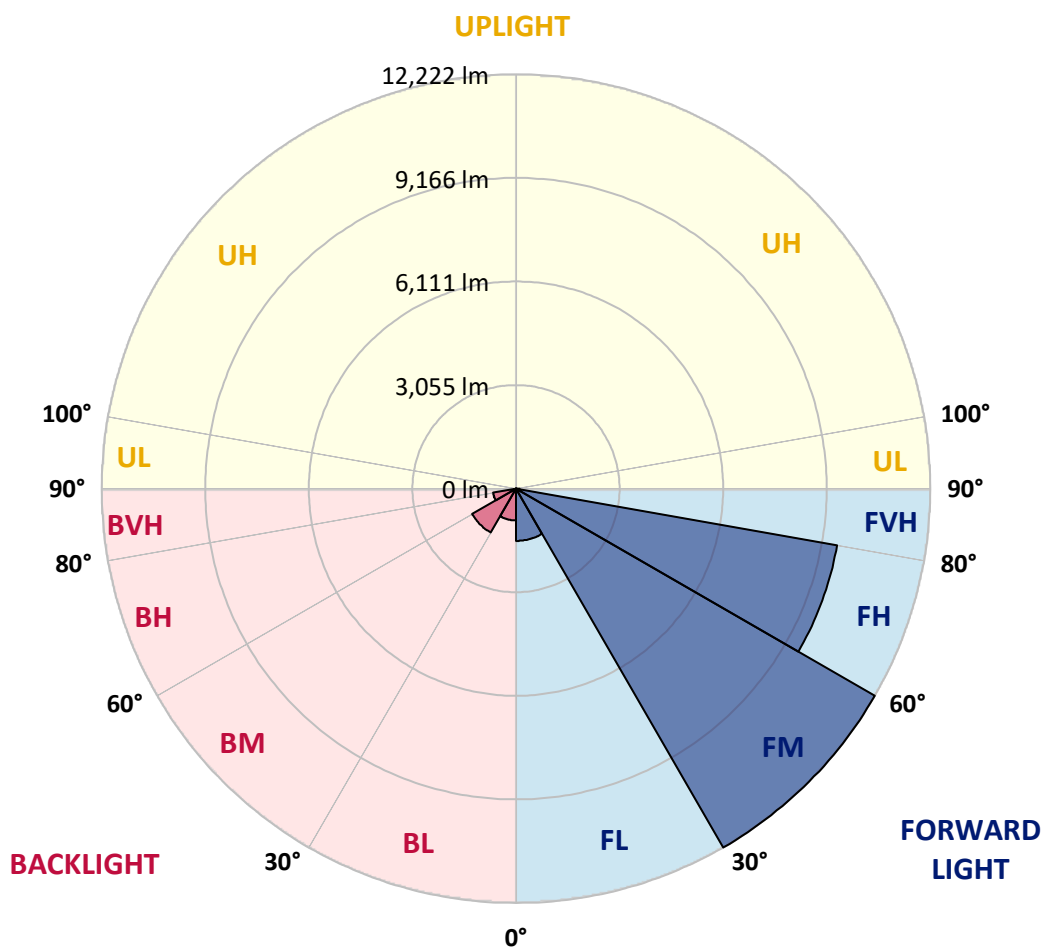


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.8	5.8			
FM (30°-60°)	12221.6	45.9			
FH (60°-80°)	9617.0	36.1			G4/12000
FVH (80°-90°)	102.2	0.4			G2/225
BL (0°-30°)	936.7	3.5	B2/1000		
BM (30°-60°)	1494.3	5.6	B2/2500		
BH (60°-80°)	687.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.1	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°	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3
2.5°	2833.8	2793.4	2830.1	2833.8	2837.5	2870.5	2907.3	2881.6	2877.9	2907.3	2933.0
5°	2719.8	2701.5	2745.6	2767.6	2804.4	2833.8	2892.6	2896.3	2899.9	2933.0	2977.1
7.5°	2672.1	2628.0	2679.4	2705.1	2730.9	2800.7	2870.5	2907.3	2958.8	2999.2	3043.3
10°	2576.5	2609.6	2624.3	2668.4	2741.9	2822.8	2907.3	2925.7	3039.6	3072.7	3179.3
12.5°	2609.6	2631.6	2661.0	2672.1	2752.9	2874.2	2988.2	2995.5	3113.1	3256.5	3311.6
15°	2694.1	2679.4	2690.4	2705.1	2800.7	2899.9	3083.7	3116.8	3227.1	3388.8	3524.8
17.5°	2874.2	2848.5	2830.1	2826.4	2848.5	2940.4	3157.2	3256.5	3359.4	3579.9	3649.7
20°	3326.3	3304.2	3230.7	3039.6	2973.5	3010.2	3245.4	3385.1	3528.5	3774.7	3888.6
22.5°	4013.6	4035.7	3862.9	3594.6	3319.0	3175.6	3385.1	3506.4	3734.3	4046.7	4149.6
25°	4825.9	4781.8	4572.3	4259.9	3826.2	3488.0	3609.3	3745.3	4024.6	4281.9	4322.4
27.5°	5461.8	5410.3	5248.6	4870.0	4495.1	3947.5	3903.4	3987.9	4318.7	4550.2	4506.1
30°	6090.3	6108.6	5998.4	5550.0	5086.9	4509.8	4230.5	4267.2	4520.8	4818.5	4719.3
32.5°	6891.5	6847.4	6784.9	6391.6	5844.0	5226.5	4748.7	4689.9	4800.2	5193.4	5075.8
35°	7637.6	7611.9	7527.4	7130.4	6652.6	5980.0	5513.2	5380.9	5355.2	5792.5	5586.7
37.5°	8288.2	8244.1	8115.4	7861.8	7398.7	6832.7	6321.8	6204.2	6200.5	6501.9	6105.0
40°	8835.8	8868.9	8854.2	8574.9	8321.3	7869.2	7086.3	6898.9	6884.2	7045.9	6814.3
42.5°	9545.2	9622.4	9582.0	9526.8	9221.8	9045.3	8159.5	7872.9	7744.2	8075.0	7865.5
45°	10618.4	10647.8	10673.6	10537.6	10232.5	10269.3	9269.5	8927.7	8894.6	9387.2	8916.7
47.5°	11621.8	11544.7	11724.8	11732.1	11717.4	11548.3	10467.7	10214.1	10258.2	10633.1	10148.0
50°	11871.8	12070.2	12566.4	12658.3	12897.2	13051.6	11798.3	11544.7	11618.2	12044.5	11489.5
52.5°	12066.6	12368.0	12864.2	13536.8	14180.0	14547.5	13286.8	13081.0	13077.3	13338.3	12573.8
55°	12408.4	12592.2	13022.2	13948.4	15172.3	15775.1	15080.5	14749.7	14452.0	14635.7	13698.5
57.5°	12375.3	12445.1	13114.1	14257.2	15958.9	17054.2	16554.3	16238.2	15856.0	15749.4	14992.2
60°	11794.6	11960.0	12709.8	14047.7	16444.1	18050.2	17929.0	17605.5	16947.6	16697.7	15984.6
62.5°	10644.2	10864.7	11452.8	13312.6	15738.4	18101.7	18877.2	18755.9	18020.8	17572.4	17278.4
65°	8626.3	8729.2	9405.5	11445.4	14143.2	17311.5	19998.2	19847.5	19171.3	18502.3	17943.7
67.5°	5586.7	5686.0	6336.5	8170.6	11107.3	15271.6	19954.1	20369.5	19638.0	18833.1	17528.3
70°	2639.0	2613.3	3219.7	4539.2	7115.7	11662.3	18605.2	19424.9	18803.7	17072.6	14558.5
72.5°	804.9	874.8	1337.9	2010.5	3653.4	7273.8	14584.3	15352.4	15157.6	13639.7	9717.9
75°	356.5	385.9	525.6	823.3	1481.2	2984.5	9008.6	9692.2	9607.7	8045.6	4436.3
77.5°	227.9	249.9	330.8	470.5	672.6	948.3	4149.6	4814.9	4667.8	2826.4	1161.4
80°	161.7	172.7	235.2	323.4	422.7	389.6	1429.8	1698.1	1628.2	768.2	312.4
82.5°	88.2	95.6	172.7	238.9	283.0	198.5	400.6	499.9	521.9	341.8	150.7
85°	33.1	40.4	106.6	169.1	147.0	91.9	117.6	143.3	187.4	187.4	69.8
87.5°	0.0	3.7	44.1	73.5	36.8	25.7	33.1	40.4	51.5	88.2	25.7
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°	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3	2918.3
2.5°	2951.4	2925.7	2936.7	2955.1	2914.6	2936.7	2892.6	2925.7	2936.7	2892.6	2914.6
5°	2988.2	3013.9	2999.2	2969.8	2944.1	2951.4	2940.4	2914.6	2936.7	2944.1	2929.4
7.5°	3094.7	3065.3	3072.7	3039.6	2988.2	2984.5	2914.6	2896.3	2903.6	2911.0	2885.2
10°	3194.0	3212.4	3175.6	3149.9	3065.3	3010.2	2914.6	2811.7	2800.7	2756.6	2793.4
12.5°	3370.4	3326.3	3311.6	3227.1	3142.5	2958.8	2752.9	2594.9	2462.6	2414.8	2367.0
15°	3517.4	3510.1	3484.3	3355.7	3160.9	2826.4	2436.8	2069.3	1815.7	1657.6	1635.6
17.5°	3719.6	3686.5	3638.7	3436.6	3024.9	2480.9	1815.7	1352.6	1099.0	999.7	963.0
20°	3873.9	3848.2	3782.1	3418.2	2778.7	1848.8	1124.7	860.1	797.6	779.2	782.9
22.5°	4098.2	4017.3	3892.3	3326.3	2330.2	1231.3	808.6	768.2	757.1	742.4	746.1
25°	4293.0	4219.4	3958.5	3168.3	1661.3	816.0	749.8	727.7	709.4	691.0	687.3
27.5°	4465.7	4373.8	4028.3	2844.8	1040.2	702.0	694.7	668.9	632.2	602.8	591.8
30°	4634.8	4528.2	4046.7	2238.4	702.0	635.9	617.5	577.0	529.3	488.8	481.5
32.5°	4917.8	4789.1	4021.0	1598.8	606.5	566.0	525.6	477.8	408.0	374.9	367.5
35°	5358.8	5164.0	3987.9	940.9	544.0	499.9	437.4	374.9	323.4	290.4	283.0
37.5°	5866.1	5527.9	3892.3	628.5	499.9	441.1	360.2	297.7	253.6	227.9	220.5
40°	6619.5	6060.9	3524.8	514.6	444.7	374.9	290.4	235.2	202.2	183.8	176.4
42.5°	7450.2	6671.0	2958.8	463.1	393.3	319.8	231.6	191.1	165.4	147.0	147.0
45°	8446.2	7306.8	2282.5	422.7	349.2	264.6	191.1	154.4	132.3	117.6	110.3
47.5°	9556.2	7883.9	1540.0	382.2	294.0	216.9	158.0	117.6	95.6	84.5	84.5
50°	10548.6	8394.8	981.4	334.5	257.3	180.1	128.6	95.6	77.2	62.5	58.8
52.5°	11449.1	8784.4	676.3	294.0	220.5	147.0	106.6	77.2	58.8	47.8	47.8
55°	12371.6	8982.9	499.9	253.6	191.1	125.0	88.2	69.8	51.5	40.4	36.8
57.5°	13128.8	9067.4	382.2	220.5	161.7	99.2	77.2	58.8	44.1	33.1	29.4
60°	13775.7	9027.0	297.7	183.8	128.6	84.5	66.2	47.8	36.8	25.7	22.1
62.5°	14154.2	8784.4	235.2	158.0	102.9	73.5	55.1	40.4	25.7	18.4	14.7
65°	14161.6	8269.8	183.8	117.6	77.2	62.5	47.8	33.1	18.4	7.4	3.7
67.5°	13147.2	7156.1	147.0	91.9	62.5	47.8	36.8	25.7	7.4	0.0	0.0
70°	10284.0	5414.0	121.3	73.5	51.5	40.4	25.7	14.7	3.7	0.0	0.0
72.5°	6553.4	3241.8	99.2	58.8	44.1	29.4	18.4	11.0	0.0	0.0	0.0
75°	2741.9	999.7	77.2	51.5	33.1	22.1	14.7	3.7	0.0	0.0	0.0
77.5°	705.7	316.1	62.5	44.1	33.1	18.4	11.0	3.7	0.0	0.0	0.0
80°	209.5	117.6	51.5	36.8	25.7	14.7	7.4	3.7	0.0	0.0	0.0
82.5°	95.6	69.8	44.1	33.1	22.1	14.7	7.4	0.0	0.0	0.0	0.0
85°	36.8	22.1	22.1	18.4	18.4	11.0	3.7	0.0	0.0	0.0	0.0
87.5°	14.7	7.4	7.4	7.4	3.7	3.7	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)