

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: P482357

Luminaire Tested: **IFLD-L-SA7D-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482357
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

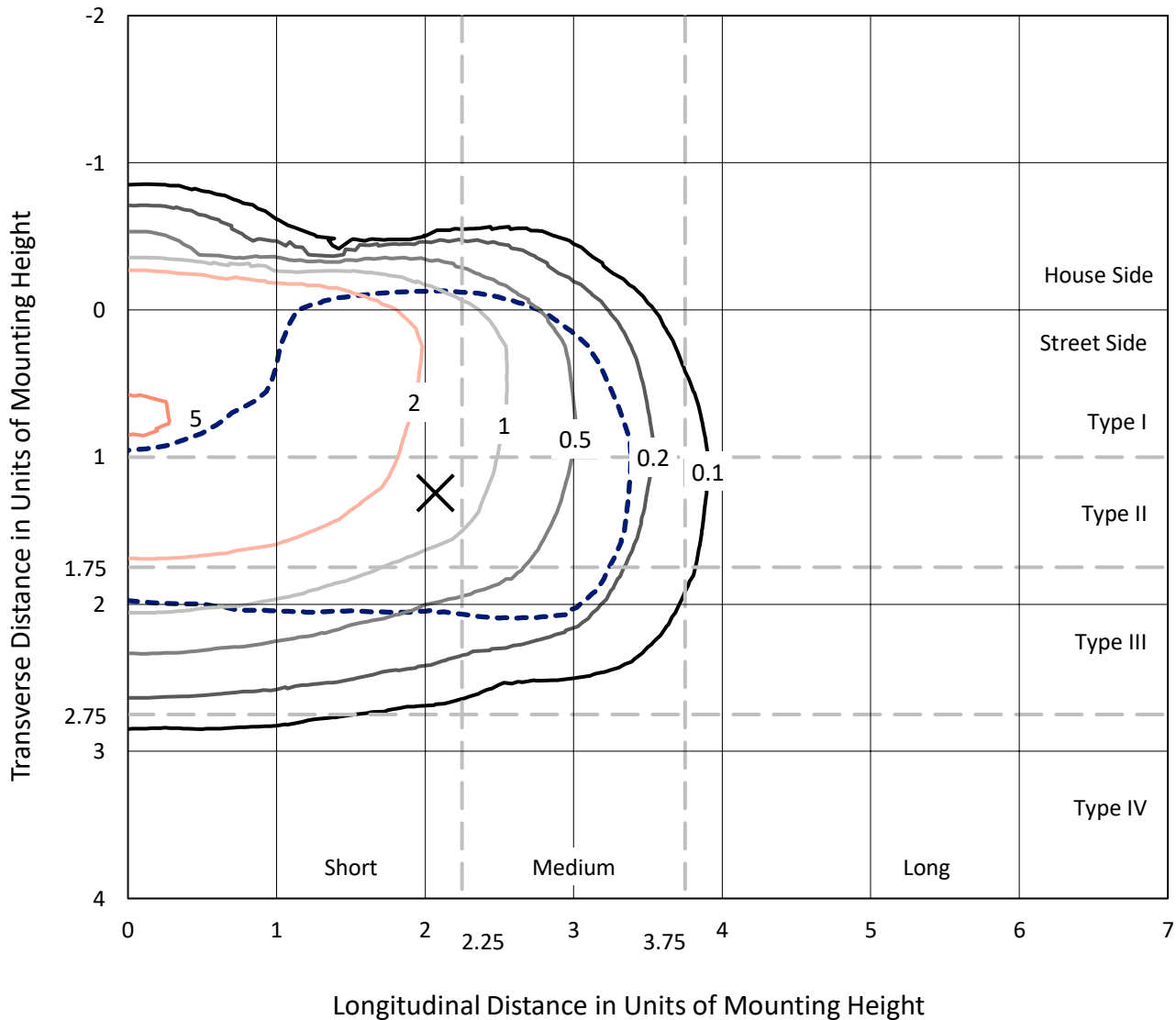
Lumens per Lamp: N/A
Luminaire Lumens: 30270.1 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (A_{in}): 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

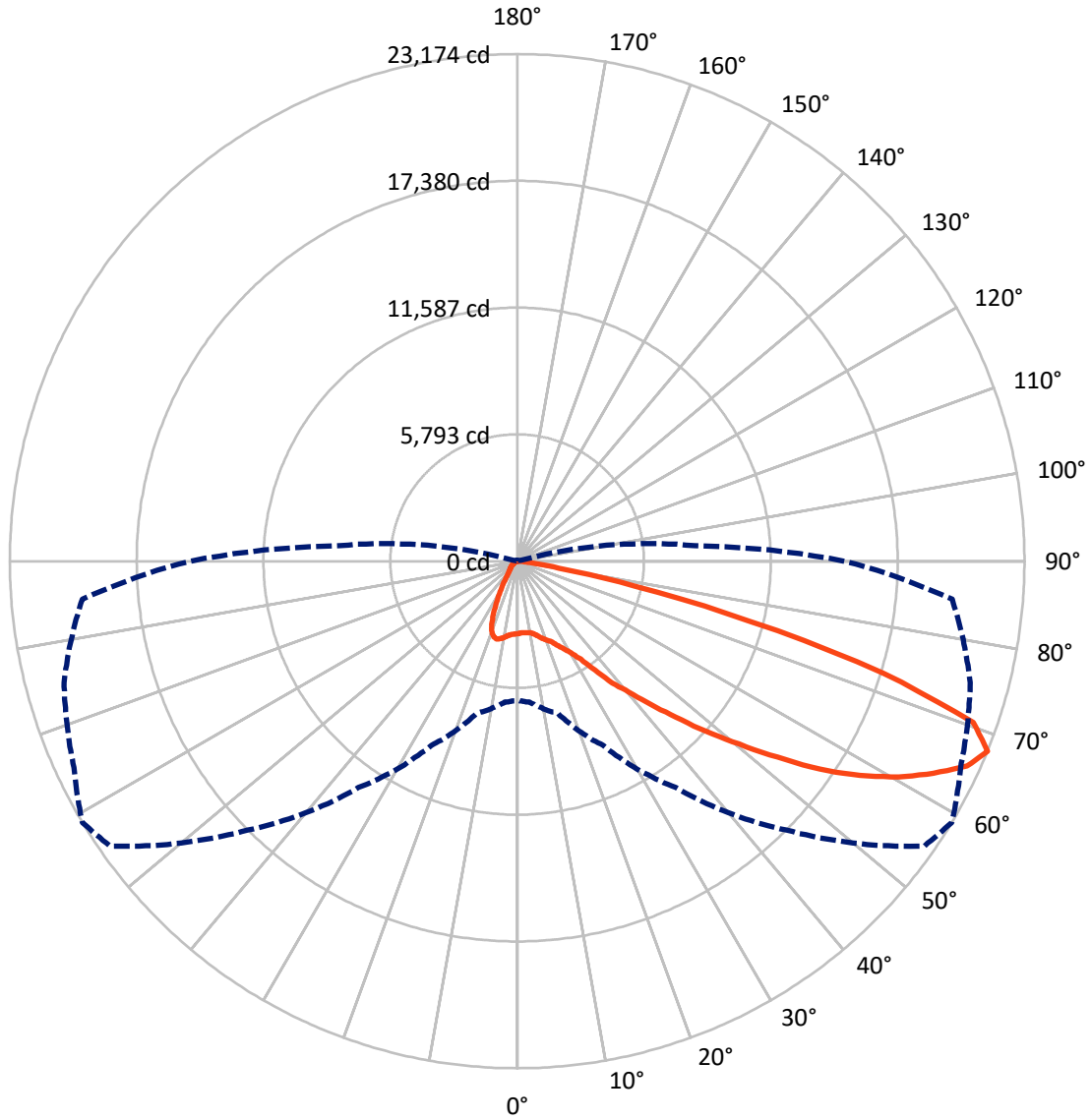
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	3555.7	0.0	3555.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	26714.3	0.0	26714.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	30270.1	0.0	30270.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	1.0
10°-20°	911.0	3.0
20°-30°	1592.2	5.3
30°-40°	2803.2	9.3
40°-50°	4955.2	16.4
50°-60°	7845.8	25.9
60°-70°	8703.2	28.8
70°-80°	3019.8	10.0
80°-90°	124.4	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°	30270.1	100.0
0°-180°	30270.1	100.0

Coefficient of Utilization

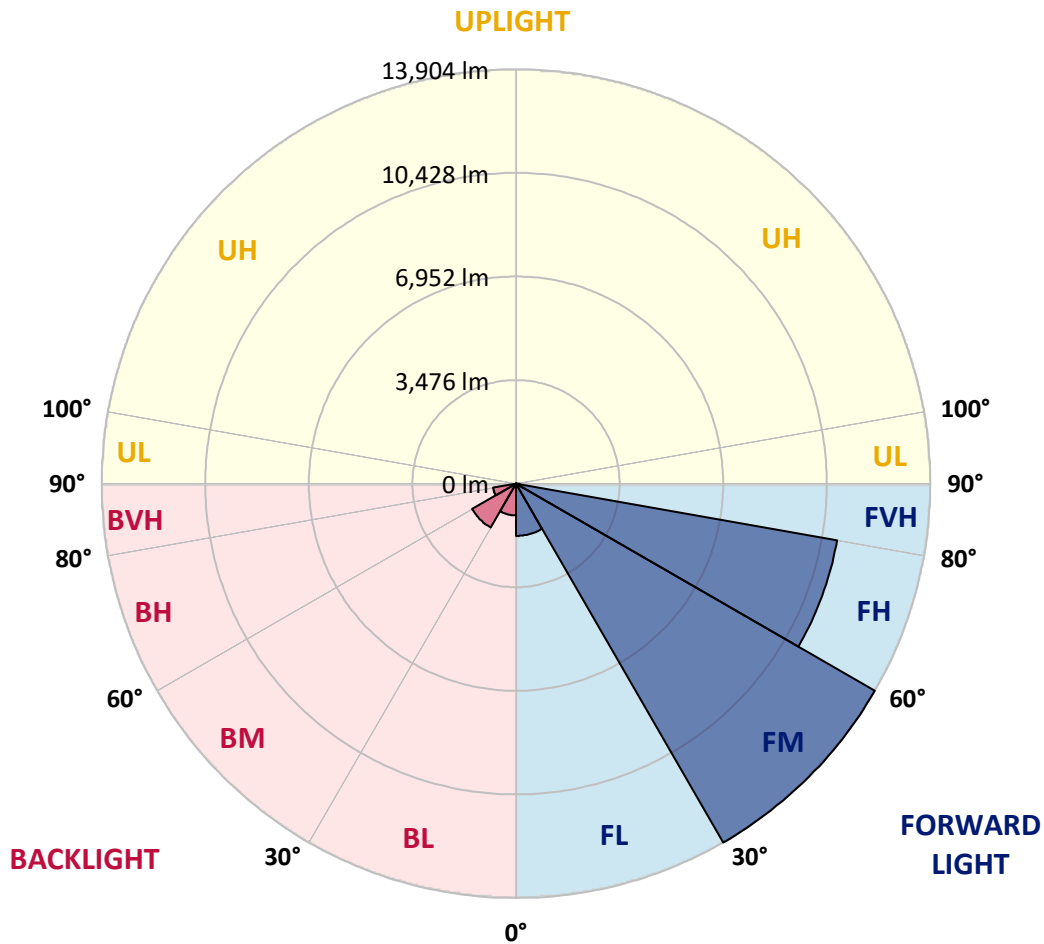


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.9	5.8			
FM (30°-60°)	13904.2	45.9			
FH (60°-80°)	10941.0	36.1			G4/12000
FVH (80°-90°)	116.3	0.4			G2/225
BL (0°-30°)	1065.7	3.5	B3/2500		
BM (30°-60°)	1700.0	5.6	B2/2500		
BH (60°-80°)	782.0	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.0	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1
2.5°	3223.9	3177.9	3219.7	3223.9	3228.1	3265.7	3307.5	3278.3	3274.1	3307.5	3336.8
5°	3094.3	3073.4	3123.6	3148.6	3190.5	3223.9	3290.8	3295.0	3299.2	3336.8	3387.0
7.5°	3039.9	2989.7	3048.3	3077.6	3106.8	3186.3	3265.7	3307.5	3366.1	3412.1	3462.3
10°	2931.2	2968.8	2985.6	3035.7	3119.4	3211.4	3307.5	3328.4	3458.1	3495.7	3617.0
12.5°	2968.8	2993.9	3027.4	3039.9	3131.9	3269.9	3399.5	3407.9	3541.7	3704.8	3767.5
15°	3065.0	3048.3	3060.8	3077.6	3186.3	3299.2	3508.3	3545.9	3671.3	3855.3	4010.0
17.5°	3269.9	3240.6	3219.7	3215.5	3240.6	3345.2	3591.9	3704.8	3821.9	4072.7	4152.2
20°	3784.2	3759.1	3675.5	3458.1	3382.8	3424.6	3692.2	3851.1	4014.2	4294.4	4424.0
22.5°	4566.2	4591.3	4394.7	4089.5	3775.9	3612.8	3851.1	3989.1	4248.4	4603.8	4720.9
25°	5490.3	5440.1	5201.7	4846.3	4352.9	3968.2	4106.2	4260.9	4578.7	4871.4	4917.4
27.5°	6213.7	6155.1	5971.1	5540.4	5113.9	4490.9	4440.7	4536.9	4913.2	5176.7	5126.5
30°	6928.7	6949.6	6824.2	6314.0	5787.2	5130.7	4812.9	4854.7	5143.2	5481.9	5369.0
32.5°	7840.3	7790.1	7719.0	7271.6	6648.5	5946.0	5402.5	5335.6	5461.0	5908.4	5774.6
35°	8689.1	8659.8	8563.6	8112.0	7568.5	6803.2	6272.2	6121.7	6092.4	6590.0	6355.8
37.5°	9429.2	9379.0	9232.7	8944.2	8417.3	7773.3	7192.1	7058.3	7054.1	7397.0	6945.4
40°	10052.2	10089.9	10073.2	9755.4	9466.8	8952.5	8061.9	7848.6	7831.9	8015.9	7752.4
42.5°	10859.3	10947.1	10901.1	10838.4	10491.3	10290.6	9282.9	8956.7	8810.4	9186.7	8948.3
45°	12080.3	12113.7	12143.0	11988.3	11641.2	11683.0	10545.7	10156.8	10119.2	10679.5	10144.2
47.5°	13221.8	13134.0	13338.9	13347.2	13330.5	13138.2	11908.8	11620.3	11670.5	12097.0	11545.0
50°	13506.1	13731.9	14296.4	14401.0	14672.8	14848.4	13422.5	13134.0	13217.6	13702.7	13071.3
52.5°	13727.8	14070.6	14635.1	15400.3	16132.1	16550.2	15116.0	14881.8	14877.7	15174.5	14304.8
55°	14116.6	14325.7	14814.9	15868.7	17261.1	17946.9	17156.6	16780.2	16441.5	16650.6	15584.3
57.5°	14079.0	14158.4	14919.5	16219.9	18155.9	19402.0	18833.3	18473.7	18038.9	17917.6	17056.2
60°	13418.3	13606.5	14459.5	15981.6	18707.9	20535.2	20397.2	20029.2	19280.7	18996.4	18185.2
62.5°	12109.5	12360.4	13029.5	15145.3	17905.0	20593.7	21476.0	21338.0	20501.7	19991.6	19657.1
65°	9813.9	9931.0	10700.4	13021.1	16090.3	19694.7	22751.4	22579.9	21810.5	21049.5	20413.9
67.5°	6355.8	6468.7	7208.9	9295.4	12636.4	17374.0	22701.2	23173.7	22341.6	21425.8	19941.4
70°	3002.3	2973.0	3663.0	5164.1	8095.3	13267.8	21166.6	22099.1	21392.4	19422.9	16562.8
72.5°	915.7	995.2	1522.1	2287.3	4156.4	8275.1	16592.1	17466.0	17244.4	15517.4	11055.8
75°	405.6	439.1	597.9	936.6	1685.1	3395.4	10248.8	11026.5	10930.4	9153.2	5047.0
77.5°	259.3	284.3	376.3	535.2	765.2	1078.8	4720.9	5477.7	5310.5	3215.5	1321.3
80°	184.0	196.5	267.6	368.0	480.9	443.2	1626.6	1931.8	1852.4	873.9	355.4
82.5°	100.4	108.7	196.5	271.8	322.0	225.8	455.8	568.7	593.8	388.9	171.4
85°	37.6	46.0	121.3	192.3	167.3	104.5	133.8	163.1	213.3	213.3	79.4
87.5°	0.0	4.2	50.2	83.6	41.8	29.3	37.6	46.0	58.5	100.4	29.3
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°	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1
2.5°	3357.7	3328.4	3341.0	3361.9	3315.9	3341.0	3290.8	3328.4	3341.0	3290.8	3315.9
5°	3399.5	3428.8	3412.1	3378.6	3349.4	3357.7	3345.2	3315.9	3341.0	3349.4	3332.6
7.5°	3520.8	3487.3	3495.7	3458.1	3399.5	3395.4	3315.9	3295.0	3303.4	3311.7	3282.5
10°	3633.7	3654.6	3612.8	3583.5	3487.3	3424.6	3315.9	3198.8	3186.3	3136.1	3177.9
12.5°	3834.4	3784.2	3767.5	3671.3	3575.2	3366.1	3131.9	2952.1	2801.6	2747.2	2692.9
15°	4001.7	3993.3	3964.0	3817.7	3596.1	3215.5	2772.3	2354.2	2065.6	1885.8	1860.8
17.5°	4231.6	4194.0	4139.7	3909.7	3441.3	2822.5	2065.6	1538.8	1250.3	1137.4	1095.5
20°	4407.3	4378.0	4302.7	3888.8	3161.2	2103.3	1279.5	978.5	907.4	886.5	890.7
22.5°	4662.3	4570.3	4428.2	3784.2	2651.1	1400.8	919.9	873.9	861.4	844.7	848.8
25°	4884.0	4800.3	4503.4	3604.4	1890.0	928.3	853.0	827.9	807.0	786.1	781.9
27.5°	5080.5	4975.9	4582.9	3236.5	1183.4	798.7	790.3	761.0	719.2	685.8	673.2
30°	5272.8	5151.6	4603.8	2546.5	798.7	723.4	702.5	656.5	602.1	556.1	547.8
32.5°	5594.8	5448.5	4574.5	1818.9	689.9	643.9	597.9	543.6	464.1	426.5	418.1
35°	6096.6	5875.0	4536.9	1070.5	618.9	568.7	497.6	426.5	368.0	330.3	322.0
37.5°	6673.6	6288.9	4428.2	715.0	568.7	501.8	409.8	338.7	288.5	259.3	250.9
40°	7530.8	6895.2	4010.0	585.4	506.0	426.5	330.3	267.6	230.0	209.1	200.7
42.5°	8475.8	7589.4	3366.1	526.9	447.4	363.8	263.4	217.4	188.2	167.3	167.3
45°	9609.0	8312.8	2596.7	480.9	397.2	301.1	217.4	175.6	150.5	133.8	125.4
47.5°	10871.8	8969.2	1752.0	434.9	334.5	246.7	179.8	133.8	108.7	96.2	96.2
50°	12000.8	9550.5	1116.5	380.5	292.7	204.9	146.4	108.7	87.8	71.1	66.9
52.5°	13025.3	9993.7	769.4	334.5	250.9	167.3	121.3	87.8	66.9	54.4	54.4
55°	14074.8	10219.5	568.7	288.5	217.4	142.2	100.4	79.4	58.5	46.0	41.8
57.5°	14936.2	10315.7	434.9	250.9	184.0	112.9	87.8	66.9	50.2	37.6	33.5
60°	15672.1	10269.7	338.7	209.1	146.4	96.2	75.3	54.4	41.8	29.3	25.1
62.5°	16102.8	9993.7	267.6	179.8	117.1	83.6	62.7	46.0	29.3	20.9	16.7
65°	16111.2	9408.3	209.1	133.8	87.8	71.1	54.4	37.6	20.9	8.4	4.2
67.5°	14957.1	8141.3	167.3	104.5	71.1	54.4	41.8	29.3	8.4	0.0	0.0
70°	11699.7	6159.3	138.0	83.6	58.5	46.0	29.3	16.7	4.2	0.0	0.0
72.5°	7455.6	3688.1	112.9	66.9	50.2	33.5	20.9	12.5	0.0	0.0	0.0
75°	3119.4	1137.4	87.8	58.5	37.6	25.1	16.7	4.2	0.0	0.0	0.0
77.5°	802.8	359.6	71.1	50.2	37.6	20.9	12.5	4.2	0.0	0.0	0.0
80°	238.3	133.8	58.5	41.8	29.3	16.7	8.4	4.2	0.0	0.0	0.0
82.5°	108.7	79.4	50.2	37.6	25.1	16.7	8.4	0.0	0.0	0.0	0.0
85°	41.8	25.1	25.1	20.9	20.9	12.5	4.2	0.0	0.0	0.0	0.0
87.5°	16.7	8.4	8.4	8.4	4.2	4.2	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)