

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: P482361

Luminaire Tested: **IFLD-L-SA8C-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482361
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

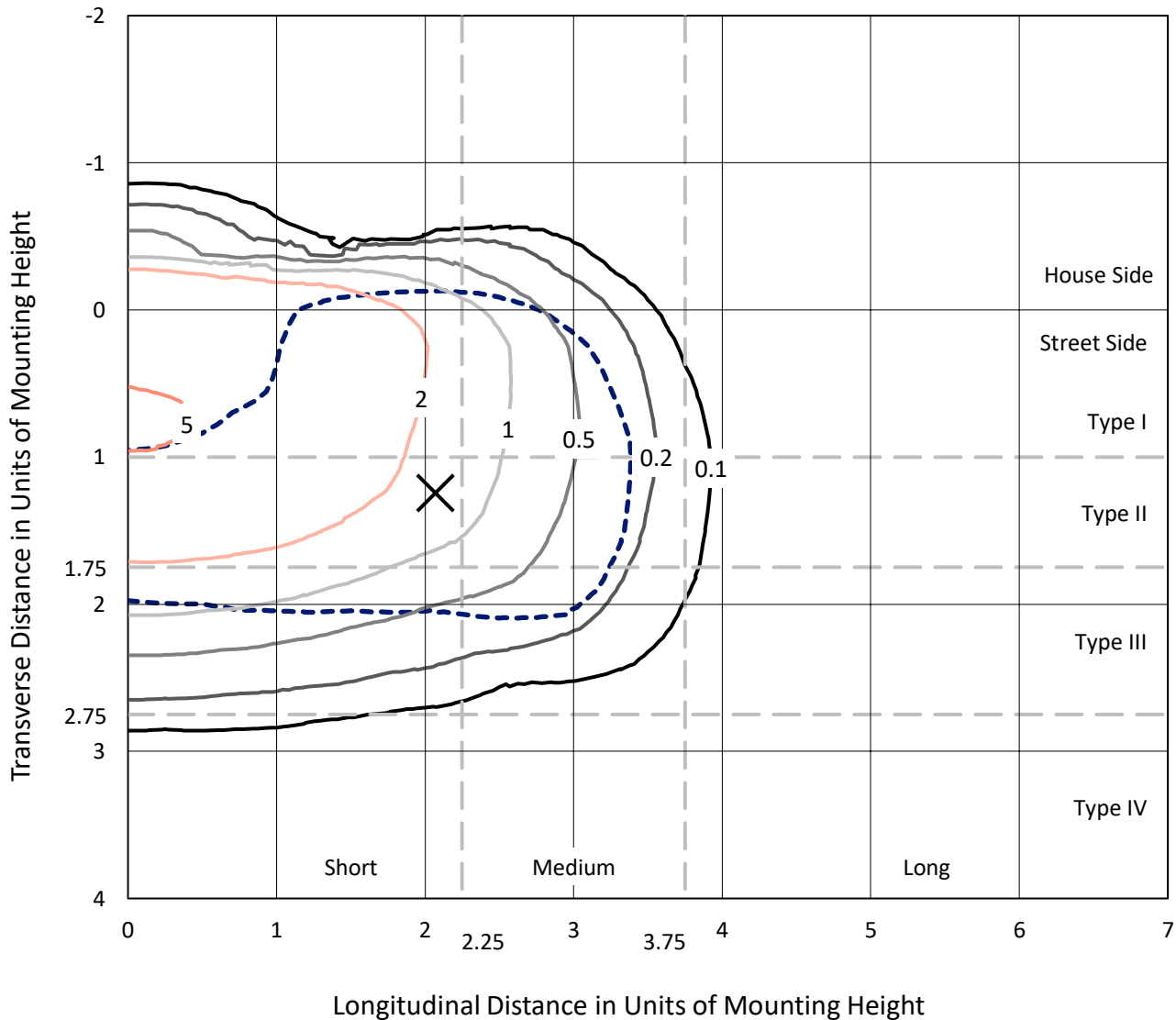
Lumens per Lamp: N/A
Luminaire Lumens: 31439.8 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3
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

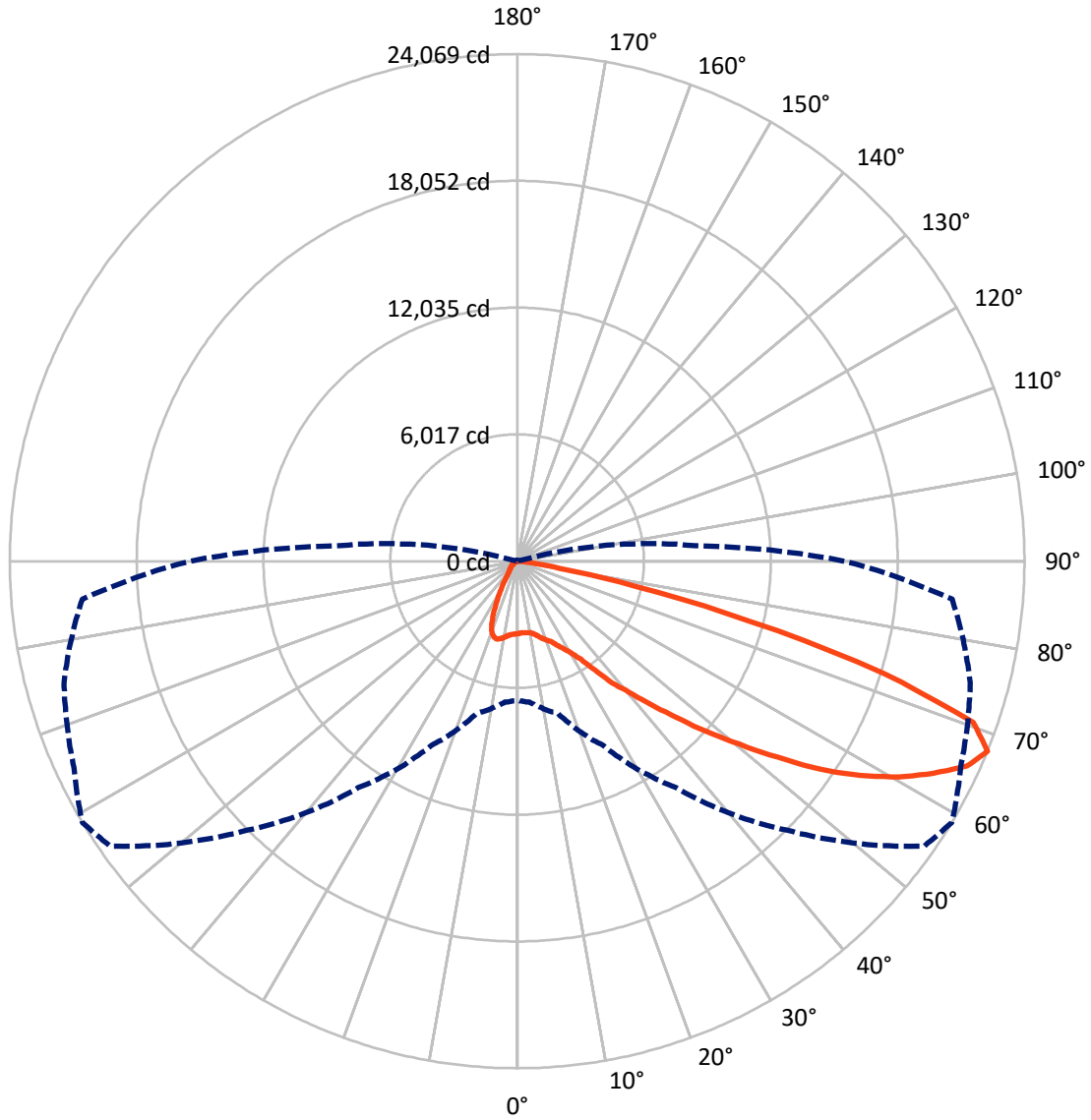
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	3693.1	0.0	3693.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	27746.6	0.0	27746.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	31439.8	0.0	31439.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	1.0
10°-20°	946.2	3.0
20°-30°	1653.7	5.3
30°-40°	2911.5	9.3
40°-50°	5146.7	16.4
50°-60°	8149.0	25.9
60°-70°	9039.5	28.8
70°-80°	3136.5	10.0
80°-90°	129.2	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°	31439.8	100.0
0°-180°	31439.8	100.0

Coefficient of Utilization

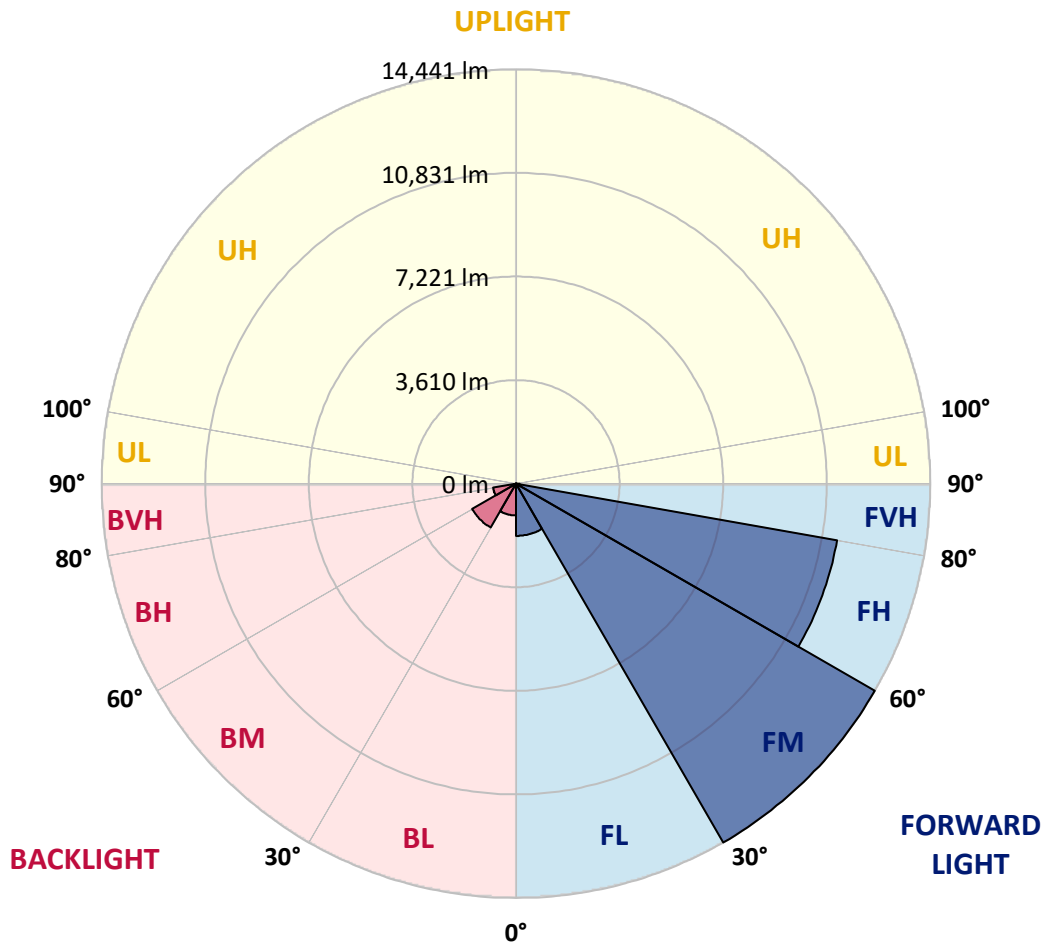


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1820.6	5.8			
FM (30°-60°)	14441.5	45.9			
FH (60°-80°)	11363.8	36.1			G4/12000
FVH (80°-90°)	120.8	0.4			G2/225
BL (0°-30°)	1106.9	3.5	B3/2500		
BM (30°-60°)	1765.7	5.6	B2/2500		
BH (60°-80°)	812.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3348.5	3300.7	3344.1	3348.5	3352.8	3391.9	3435.3	3404.9	3400.6	3435.3	3465.8
5°	3213.9	3192.1	3244.3	3270.3	3313.7	3348.5	3418.0	3422.3	3426.7	3465.8	3517.9
7.5°	3157.4	3105.3	3166.1	3196.5	3226.9	3309.4	3391.9	3435.3	3496.2	3543.9	3596.0
10°	3044.5	3083.6	3100.9	3153.1	3239.9	3335.5	3435.3	3457.1	3591.7	3630.8	3756.7
12.5°	3083.6	3109.6	3144.4	3157.4	3252.9	3396.3	3530.9	3539.6	3678.6	3847.9	3913.1
15°	3183.5	3166.1	3179.1	3196.5	3309.4	3426.7	3643.8	3682.9	3813.2	4004.3	4165.0
17.5°	3396.3	3365.9	3344.1	3339.8	3365.9	3474.4	3730.7	3847.9	3969.5	4230.1	4312.6
20°	3930.5	3904.4	3817.5	3591.7	3513.5	3557.0	3834.9	3999.9	4169.3	4460.3	4594.9
22.5°	4742.6	4768.7	4564.5	4247.5	3921.8	3752.4	3999.9	4143.3	4412.5	4781.7	4903.3
25°	5702.4	5650.3	5402.7	5033.6	4521.1	4121.6	4264.9	4425.6	4755.6	5059.6	5107.4
27.5°	6453.8	6393.0	6201.9	5754.5	5311.5	4664.4	4612.3	4712.2	5103.1	5376.7	5324.6
30°	7196.4	7218.1	7087.9	6558.0	6010.8	5328.9	4998.8	5042.3	5341.9	5693.7	5576.5
32.5°	8143.2	8091.1	8017.3	7552.6	6905.4	6175.8	5611.2	5541.7	5672.0	6136.7	5997.7
35°	9024.9	8994.4	8894.6	8425.5	7860.9	7066.1	6514.6	6358.2	6327.8	6844.6	6601.4
37.5°	9793.6	9741.5	9589.4	9289.8	8742.6	8073.7	7470.0	7331.1	7326.7	7682.8	7213.8
40°	10440.7	10479.8	10462.4	10132.3	9832.7	9298.5	8373.4	8151.9	8134.5	8325.6	8052.0
42.5°	11278.9	11370.1	11322.3	11257.2	10896.7	10688.2	9641.6	9302.8	9150.8	9541.7	9294.1
45°	12547.1	12581.8	12612.2	12451.5	12091.0	12134.5	10953.2	10549.3	10510.2	11092.1	10536.2
47.5°	13732.7	13641.5	13854.3	13863.0	13845.6	13645.9	12369.0	12069.3	12121.4	12564.4	11991.2
50°	14028.0	14262.6	14848.9	14957.5	15239.7	15422.2	13941.2	13641.5	13728.4	14232.2	13576.4
52.5°	14258.2	14614.4	15200.7	15995.4	16755.5	17189.8	15700.1	15456.9	15452.6	15760.9	14857.6
55°	14662.1	14879.3	15387.4	16481.9	17928.1	18640.4	17819.5	17428.6	17076.9	17294.0	16186.5
57.5°	14623.0	14705.6	15496.0	16846.7	18857.5	20151.7	19561.1	19187.6	18735.9	18610.0	17715.3
60°	13936.8	14132.3	15018.3	16599.1	19430.8	21328.7	21185.4	20803.2	20025.8	19730.5	18887.9
62.5°	12577.5	12838.0	13532.9	15730.5	18596.9	21389.5	22305.9	22162.6	21294.0	20764.1	20416.7
65°	10193.1	10314.7	11113.9	13524.2	16712.0	20455.7	23630.5	23452.5	22653.3	21862.9	21202.8
67.5°	6601.4	6718.7	7487.4	9654.6	13124.7	18045.4	23578.4	24069.2	23204.9	22253.8	20712.0
70°	3118.3	3087.9	3804.5	5363.7	8408.1	13780.5	21984.5	22953.0	22219.0	20173.5	17202.8
72.5°	951.1	1033.6	1580.9	2375.6	4317.0	8594.9	17233.2	18140.9	17910.7	16117.0	11483.0
75°	421.3	456.0	621.1	972.8	1750.2	3526.6	10644.8	11452.6	11352.7	9506.9	5242.1
77.5°	269.3	295.3	390.9	555.9	794.8	1120.5	4903.3	5689.4	5515.7	3339.8	1372.4
80°	191.1	204.1	278.0	382.2	499.5	460.4	1689.4	2006.5	1924.0	907.7	369.2
82.5°	104.2	112.9	204.1	282.3	334.4	234.5	473.4	590.7	616.7	403.9	178.1
85°	39.1	47.8	125.9	199.8	173.7	108.6	139.0	169.4	221.5	221.5	82.5
87.5°	0.0	4.3	52.1	86.9	43.4	30.4	39.1	47.8	60.8	104.2	30.4
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°	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4	3448.4
2.5°	3487.5	3457.1	3470.1	3491.8	3444.0	3470.1	3418.0	3457.1	3470.1	3418.0	3444.0
5°	3530.9	3561.3	3543.9	3509.2	3478.8	3487.5	3474.4	3444.0	3470.1	3478.8	3461.4
7.5°	3656.8	3622.1	3630.8	3591.7	3530.9	3526.6	3444.0	3422.3	3431.0	3439.7	3409.3
10°	3774.1	3795.8	3752.4	3722.0	3622.1	3557.0	3444.0	3322.4	3309.4	3257.3	3300.7
12.5°	3982.6	3930.5	3913.1	3813.2	3713.3	3496.2	3252.9	3066.2	2909.8	2853.4	2796.9
15°	4156.3	4147.6	4117.2	3965.2	3735.0	3339.8	2879.4	2445.1	2145.5	1958.7	1932.7
17.5°	4395.2	4356.1	4299.6	4060.7	3574.3	2931.6	2145.5	1598.2	1298.6	1181.3	1137.9
20°	4577.6	4547.2	4469.0	4039.0	3283.3	2184.6	1329.0	1016.3	942.4	920.7	925.1
22.5°	4842.5	4746.9	4599.3	3930.5	2753.5	1454.9	955.5	907.7	894.7	877.3	881.6
25°	5072.7	4985.8	4677.5	3743.7	1963.1	964.2	886.0	859.9	838.2	816.5	812.1
27.5°	5276.8	5168.2	4760.0	3361.5	1229.1	829.5	820.8	790.4	747.0	712.3	699.2
30°	5476.6	5350.6	4781.7	2644.9	829.5	751.3	729.6	681.9	625.4	577.6	568.9
32.5°	5811.0	5659.0	4751.3	1889.2	716.6	668.8	621.1	564.6	482.1	443.0	434.3
35°	6332.2	6102.0	4712.2	1111.8	642.8	590.7	516.8	443.0	382.2	343.1	334.4
37.5°	6931.5	6531.9	4599.3	742.7	590.7	521.2	425.6	351.8	299.7	269.3	260.6
40°	7821.8	7161.7	4165.0	608.0	525.5	443.0	343.1	278.0	238.9	217.2	208.5
42.5°	8803.4	7882.6	3496.2	547.2	464.7	377.8	273.6	225.8	195.4	173.7	173.7
45°	9980.3	8634.0	2697.0	499.5	412.6	312.7	225.8	182.4	156.3	139.0	130.3
47.5°	11291.9	9315.8	1819.7	451.7	347.4	256.2	186.8	139.0	112.9	99.9	99.9
50°	12464.5	9919.5	1159.6	395.2	304.0	212.8	152.0	112.9	91.2	73.8	69.5
52.5°	13528.6	10379.9	799.1	347.4	260.6	173.7	125.9	91.2	69.5	56.5	56.5
55°	14618.7	10614.4	590.7	299.7	225.8	147.7	104.2	82.5	60.8	47.8	43.4
57.5°	15513.4	10714.3	451.7	260.6	191.1	117.3	91.2	69.5	52.1	39.1	34.7
60°	16277.7	10666.5	351.8	217.2	152.0	99.9	78.2	56.5	43.4	30.4	26.1
62.5°	16725.1	10379.9	278.0	186.8	121.6	86.9	65.1	47.8	30.4	21.7	17.4
65°	16733.8	9771.9	217.2	139.0	91.2	73.8	56.5	39.1	21.7	8.7	4.3
67.5°	15535.1	8455.9	173.7	108.6	73.8	56.5	43.4	30.4	8.7	0.0	0.0
70°	12151.8	6397.3	143.3	86.9	60.8	47.8	30.4	17.4	4.3	0.0	0.0
72.5°	7743.7	3830.6	117.3	69.5	52.1	34.7	21.7	13.0	0.0	0.0	0.0
75°	3239.9	1181.3	91.2	60.8	39.1	26.1	17.4	4.3	0.0	0.0	0.0
77.5°	833.9	373.5	73.8	52.1	39.1	21.7	13.0	4.3	0.0	0.0	0.0
80°	247.6	139.0	60.8	43.4	30.4	17.4	8.7	4.3	0.0	0.0	0.0
82.5°	112.9	82.5	52.1	39.1	26.1	17.4	8.7	0.0	0.0	0.0	0.0
85°	43.4	26.1	26.1	21.7	21.7	13.0	4.3	0.0	0.0	0.0	0.0
87.5°	17.4	8.7	8.7	8.7	4.3	4.3	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)