

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: P482634

Luminaire Tested: **IFLD-L-SA8C-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482634
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

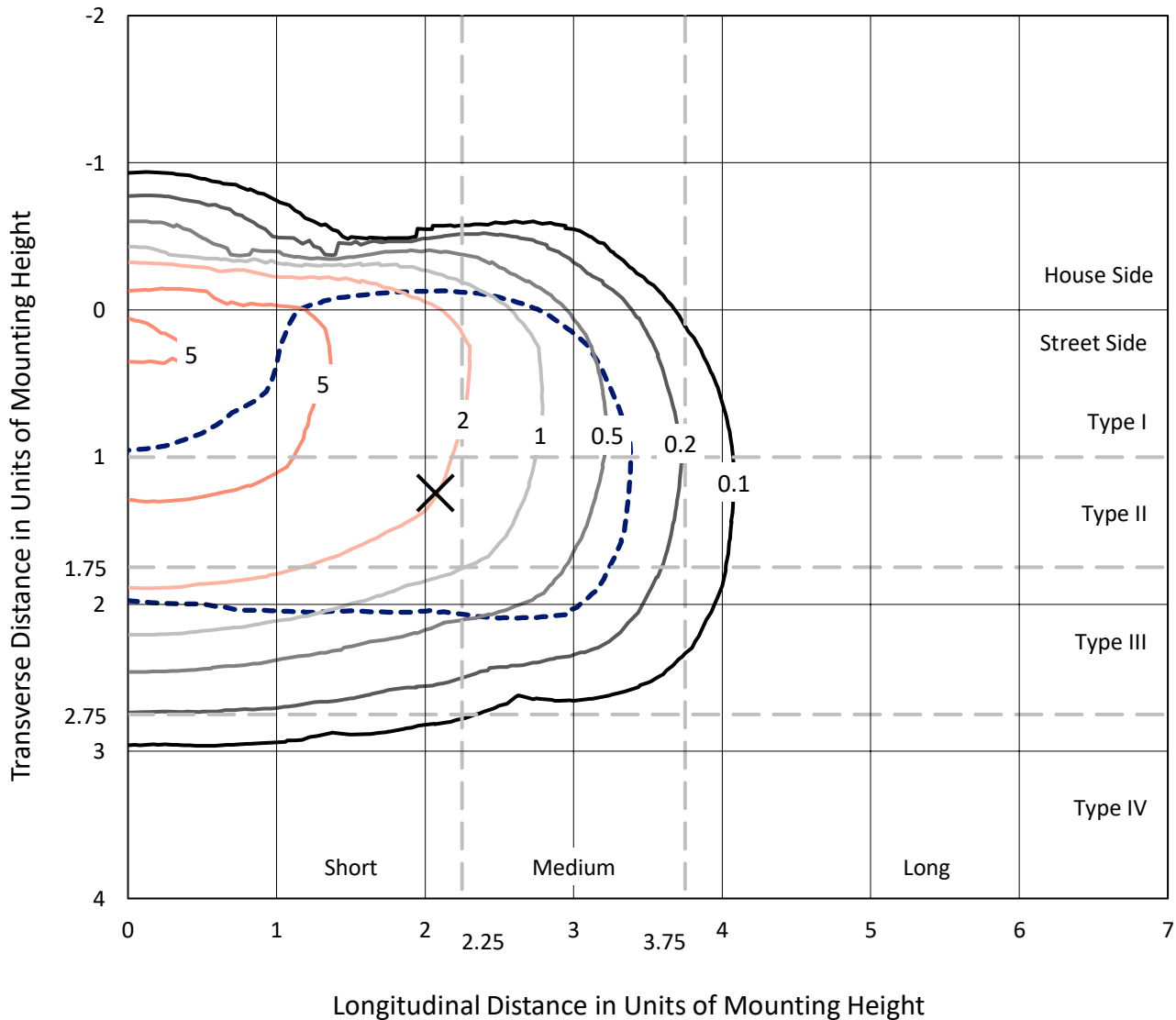
Lumens per Lamp: N/A
Luminaire Lumens: 29872.1 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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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 CATALOG NUMBER: IFLD-L-SA8C-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

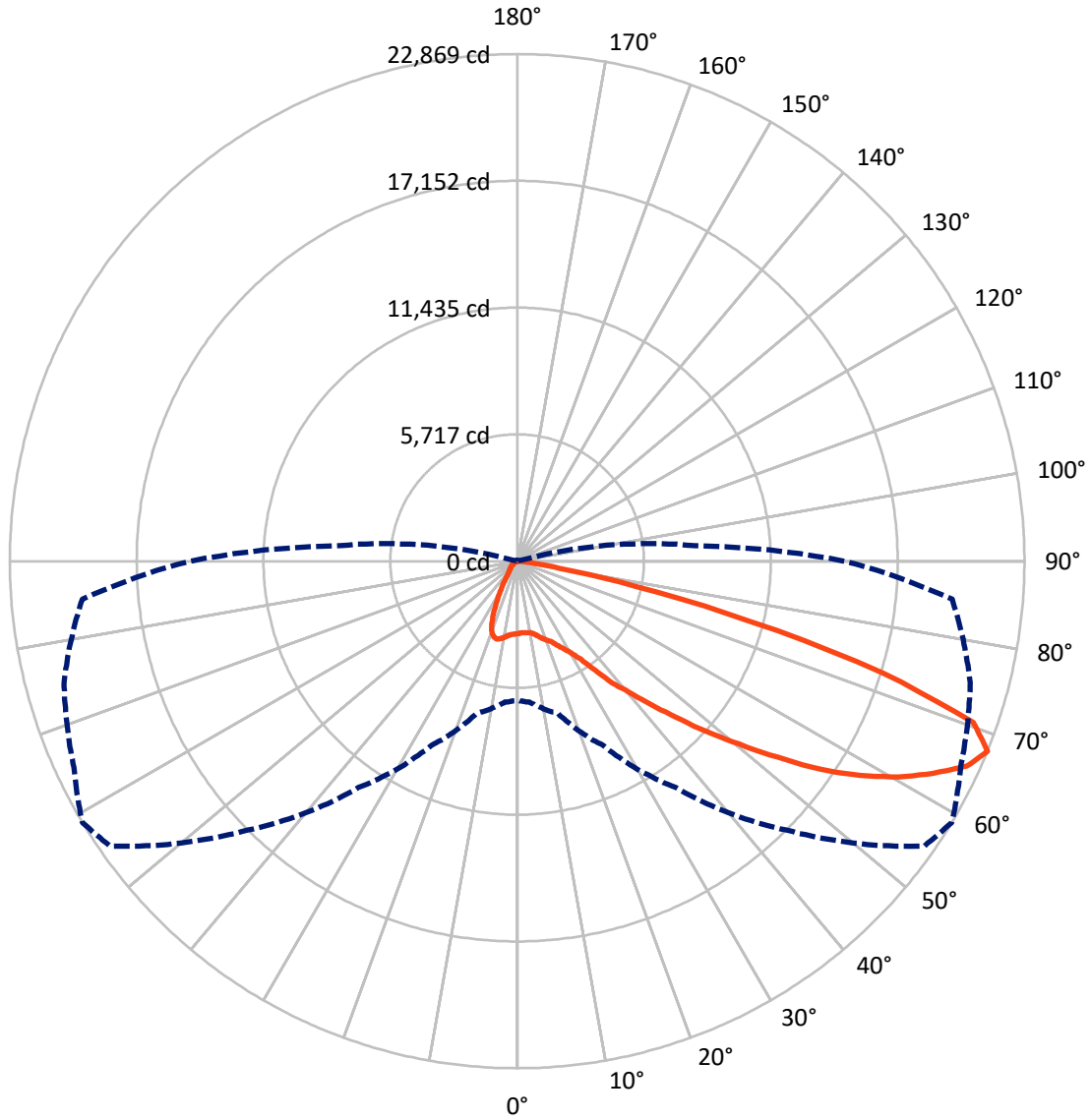
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-L-SA8C-830-U-T3-HSS

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	3509.0	0.0	3509.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	26363.1	0.0	26363.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	29872.1	0.0	29872.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	1.0
10°-20°	899.0	3.0
20°-30°	1571.2	5.3
30°-40°	2766.3	9.3
40°-50°	4890.0	16.4
50°-60°	7742.7	25.9
60°-70°	8588.8	28.8
70°-80°	2980.1	10.0
80°-90°	122.7	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°	29872.1	100.0
0°-180°	29872.1	100.0

Coefficient of Utilization

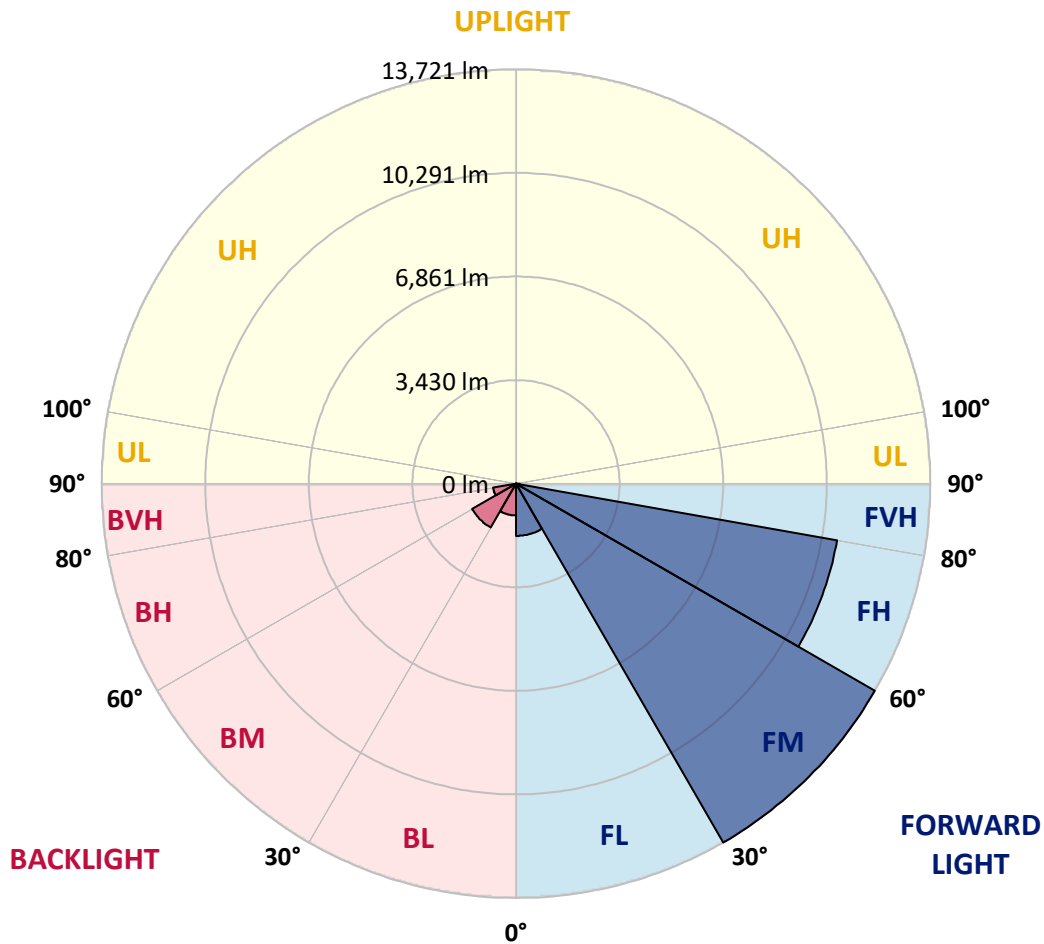


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.8	5.8			
FM (30°-60°)	13721.4	45.9			
FH (60°-80°)	10797.2	36.1			G4/12000
FVH (80°-90°)	114.8	0.4			G2/225
BL (0°-30°)	1051.7	3.5	B3/2500		
BM (30°-60°)	1677.7	5.6	B2/2500		
BH (60°-80°)	771.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.9	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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CATALOG NUMBER: IFLD-L-SA8C-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4
2.5°	3181.5	3136.1	3177.4	3181.5	3185.7	3222.8	3264.1	3235.2	3231.0	3264.1	3292.9
5°	3053.6	3033.0	3082.5	3107.2	3148.5	3181.5	3247.5	3251.7	3255.8	3292.9	3342.5
7.5°	3000.0	2950.4	3008.2	3037.1	3066.0	3144.4	3222.8	3264.1	3321.8	3367.2	3416.7
10°	2892.7	2929.8	2946.3	2995.8	3078.4	3169.1	3264.1	3284.7	3412.6	3449.7	3569.4
12.5°	2929.8	2954.6	2987.6	3000.0	3090.7	3226.9	3354.8	3363.1	3495.1	3656.1	3718.0
15°	3024.7	3008.2	3020.6	3037.1	3144.4	3255.8	3462.1	3499.3	3623.1	3804.6	3957.3
17.5°	3226.9	3198.0	3177.4	3173.3	3198.0	3301.2	3544.7	3656.1	3771.6	4019.2	4097.6
20°	3734.5	3709.7	3627.2	3412.6	3338.3	3379.6	3643.7	3800.5	3961.4	4237.9	4365.8
22.5°	4506.1	4530.9	4336.9	4035.7	3726.2	3565.3	3800.5	3936.7	4192.5	4543.3	4658.8
25°	5418.1	5368.6	5133.4	4782.6	4295.7	3916.0	4052.2	4204.9	4518.5	4807.4	4852.8
27.5°	6132.0	6074.2	5892.6	5467.6	5046.7	4431.9	4382.3	4477.2	4848.6	5108.6	5059.1
30°	6837.6	6858.2	6734.4	6231.0	5711.1	5063.2	4749.6	4790.9	5075.6	5409.8	5298.4
32.5°	7737.2	7687.7	7617.5	7176.0	6561.1	5867.9	5331.4	5265.4	5389.2	5830.7	5698.7
35°	8574.8	8546.0	8451.1	8005.4	7468.9	6713.8	6189.7	6041.2	6012.3	6503.4	6272.3
37.5°	9305.2	9255.7	9111.3	8826.6	8306.6	7671.1	7097.6	6965.5	6961.4	7299.8	6854.1
40°	9920.1	9957.2	9940.7	9627.1	9342.4	8834.8	7955.9	7745.4	7728.9	7910.5	7650.5
42.5°	10716.5	10803.2	10757.8	10695.9	10353.4	10155.3	9160.8	8838.9	8694.5	9065.9	8830.7
45°	11921.4	11954.4	11983.3	11830.7	11488.2	11529.4	10407.0	10023.2	9986.1	10539.1	10010.9
47.5°	13048.0	12961.3	13163.5	13171.8	13155.3	12965.4	11752.2	11467.5	11517.0	11937.9	11393.2
50°	13328.6	13551.4	14108.5	14211.6	14479.9	14653.2	13246.0	12961.3	13043.8	13522.5	12899.4
52.5°	13547.3	13885.6	14442.7	15197.9	15920.0	16332.7	14917.3	14686.2	14682.1	14975.0	14116.7
55°	13931.0	14137.4	14620.2	15660.0	17034.2	17710.9	16931.0	16559.6	16225.4	16431.7	15379.4
57.5°	13893.9	13972.3	14723.3	16006.7	17917.2	19146.9	18585.7	18230.8	17801.7	17682.0	16832.0
60°	13241.9	13427.6	14269.4	15771.4	18461.9	20265.2	20129.0	19765.9	19027.3	18746.6	17946.1
62.5°	11950.3	12197.9	12858.1	14946.2	17669.6	20323.0	21193.7	21057.5	20232.2	19728.8	19398.6
65°	9684.9	9800.4	10559.7	12849.9	15878.7	19435.8	22452.2	22283.1	21523.8	20772.8	20145.5
67.5°	6272.3	6383.7	7114.1	9173.2	12470.3	17145.6	22402.7	22869.0	22047.8	21144.1	19679.2
70°	2962.8	2933.9	3614.8	5096.2	7988.9	13093.4	20888.3	21808.5	21111.1	19167.6	16345.0
72.5°	903.7	982.1	1502.0	2257.2	4101.7	8166.3	16373.9	17236.4	17017.6	15313.4	10910.4
75°	400.3	433.3	590.1	924.3	1663.0	3350.7	10114.0	10881.6	10786.6	9032.9	4980.7
77.5°	255.8	280.6	371.4	528.2	755.1	1064.6	4658.8	5405.7	5240.6	3173.3	1304.0
80°	181.6	193.9	264.1	363.1	474.5	437.4	1605.2	1906.4	1828.0	862.4	350.8
82.5°	99.0	107.3	193.9	268.2	317.7	222.8	449.8	561.2	586.0	383.8	169.2
85°	37.1	45.4	119.7	189.8	165.1	103.2	132.0	160.9	210.5	210.5	78.4
87.5°	0.0	4.1	49.5	82.5	41.3	28.9	37.1	45.4	57.8	99.0	28.9
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°	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4	3276.4
2.5°	3313.6	3284.7	3297.1	3317.7	3272.3	3297.1	3247.5	3284.7	3297.1	3247.5	3272.3
5°	3354.8	3383.7	3367.2	3334.2	3305.3	3313.6	3301.2	3272.3	3297.1	3305.3	3288.8
7.5°	3474.5	3441.5	3449.7	3412.6	3354.8	3350.7	3272.3	3251.7	3259.9	3268.2	3239.3
10°	3585.9	3606.6	3565.3	3536.4	3441.5	3379.6	3272.3	3156.8	3144.4	3094.9	3136.1
12.5°	3784.0	3734.5	3718.0	3623.1	3528.2	3321.8	3090.7	2913.3	2764.7	2711.1	2657.5
15°	3949.1	3940.8	3911.9	3767.5	3548.8	3173.3	2735.9	2323.2	2038.5	1861.0	1836.3
17.5°	4176.0	4138.9	4085.2	3858.3	3396.1	2785.4	2038.5	1518.5	1233.8	1122.4	1081.1
20°	4349.3	4320.4	4246.2	3837.6	3119.6	2075.6	1262.7	965.6	895.4	874.8	878.9
22.5°	4601.0	4510.3	4370.0	3734.5	2616.2	1382.4	907.8	862.4	850.1	833.6	837.7
25°	4819.7	4737.2	4444.2	3557.0	1865.2	916.1	841.8	817.0	796.4	775.8	771.7
27.5°	5013.7	4910.5	4522.6	3193.9	1167.8	788.2	779.9	751.0	709.8	676.7	664.4
30°	5203.5	5083.8	4543.3	2513.0	788.2	713.9	693.3	647.9	594.2	548.8	540.6
32.5°	5521.2	5376.8	4514.4	1795.0	680.9	635.5	590.1	536.4	458.0	420.9	412.6
35°	6016.4	5797.7	4477.2	1056.4	610.7	561.2	491.1	420.9	363.1	326.0	317.7
37.5°	6585.9	6206.2	4370.0	705.6	561.2	495.2	404.4	334.2	284.7	255.8	247.6
40°	7431.8	6804.6	3957.3	577.7	499.3	420.9	326.0	264.1	227.0	206.3	198.1
42.5°	8364.4	7489.6	3321.8	519.9	441.5	359.0	260.0	214.6	185.7	165.1	165.1
45°	9482.7	8203.5	2562.6	474.5	392.0	297.1	214.6	173.3	148.6	132.0	123.8
47.5°	10728.9	8851.3	1729.0	429.2	330.1	243.5	177.4	132.0	107.3	94.9	94.9
50°	11843.0	9424.9	1101.8	375.5	288.9	202.2	144.4	107.3	86.7	70.2	66.0
52.5°	12854.0	9862.3	759.3	330.1	247.6	165.1	119.7	86.7	66.0	53.6	53.6
55°	13889.8	10085.1	561.2	284.7	214.6	140.3	99.0	78.4	57.8	45.4	41.3
57.5°	14739.8	10180.1	429.2	247.6	181.6	111.4	86.7	66.0	49.5	37.1	33.0
60°	15466.1	10134.7	334.2	206.3	144.4	94.9	74.3	53.6	41.3	28.9	24.8
62.5°	15891.1	9862.3	264.1	177.4	115.5	82.5	61.9	45.4	28.9	20.6	16.5
65°	15899.4	9284.6	206.3	132.0	86.7	70.2	53.6	37.1	20.6	8.3	4.1
67.5°	14760.5	8034.3	165.1	103.2	70.2	53.6	41.3	28.9	8.3	0.0	0.0
70°	11545.9	6078.3	136.2	82.5	57.8	45.4	28.9	16.5	4.1	0.0	0.0
72.5°	7357.5	3639.6	111.4	66.0	49.5	33.0	20.6	12.4	0.0	0.0	0.0
75°	3078.4	1122.4	86.7	57.8	37.1	24.8	16.5	4.1	0.0	0.0	0.0
77.5°	792.3	354.9	70.2	49.5	37.1	20.6	12.4	4.1	0.0	0.0	0.0
80°	235.2	132.0	57.8	41.3	28.9	16.5	8.3	4.1	0.0	0.0	0.0
82.5°	107.3	78.4	49.5	37.1	24.8	16.5	8.3	0.0	0.0	0.0	0.0
85°	41.3	24.8	24.8	20.6	20.6	12.4	4.1	0.0	0.0	0.0	0.0
87.5°	16.5	8.3	8.3	8.3	4.1	4.1	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)