

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: P482362

Luminaire Tested: **IFLD-L-SA8D-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482362
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-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

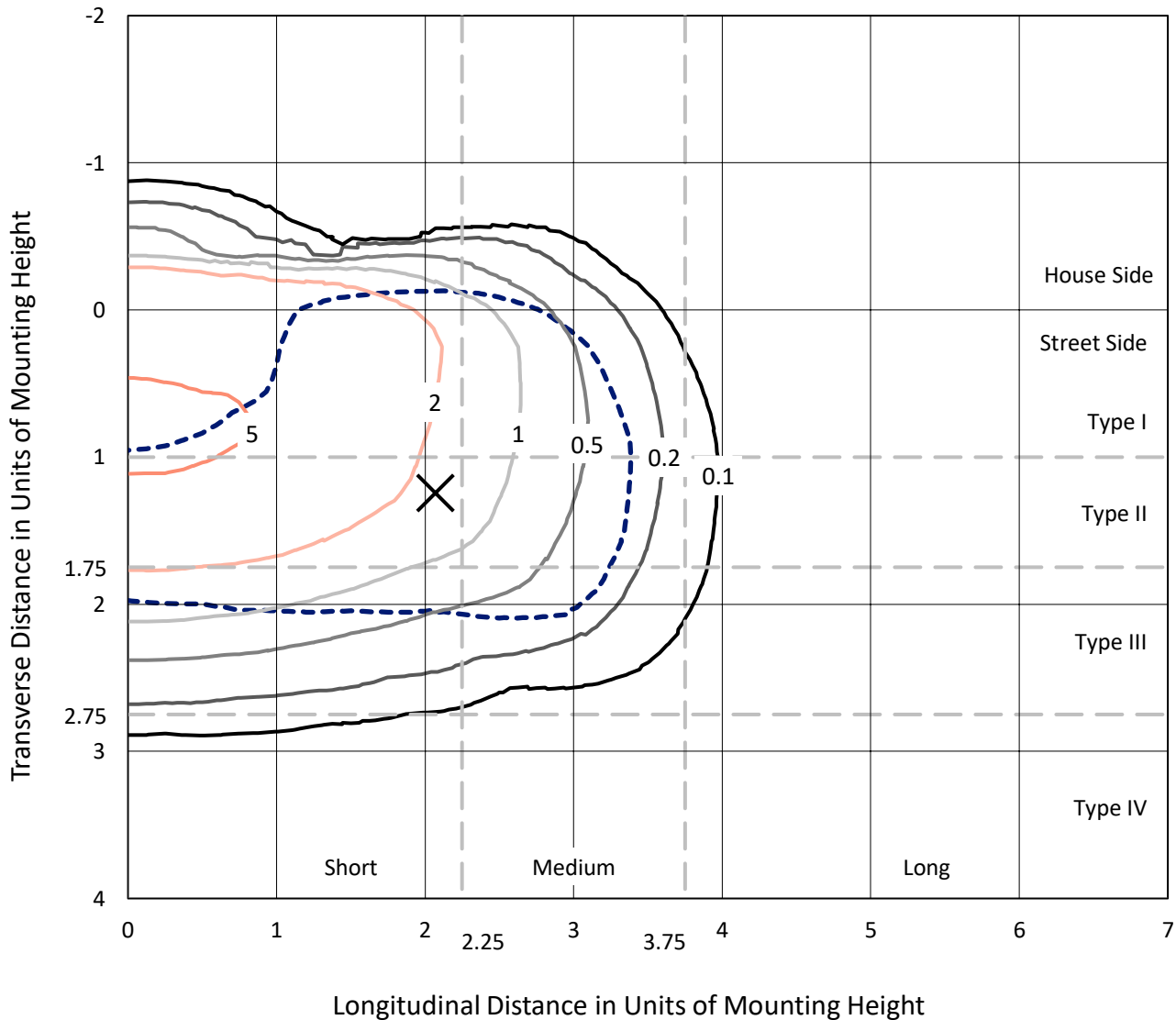
Lumens per Lamp: N/A
Luminaire Lumens: 34594.5 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

REPORT NUMBER: P482362
 CATALOG NUMBER: IFLD-L-SA8D-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

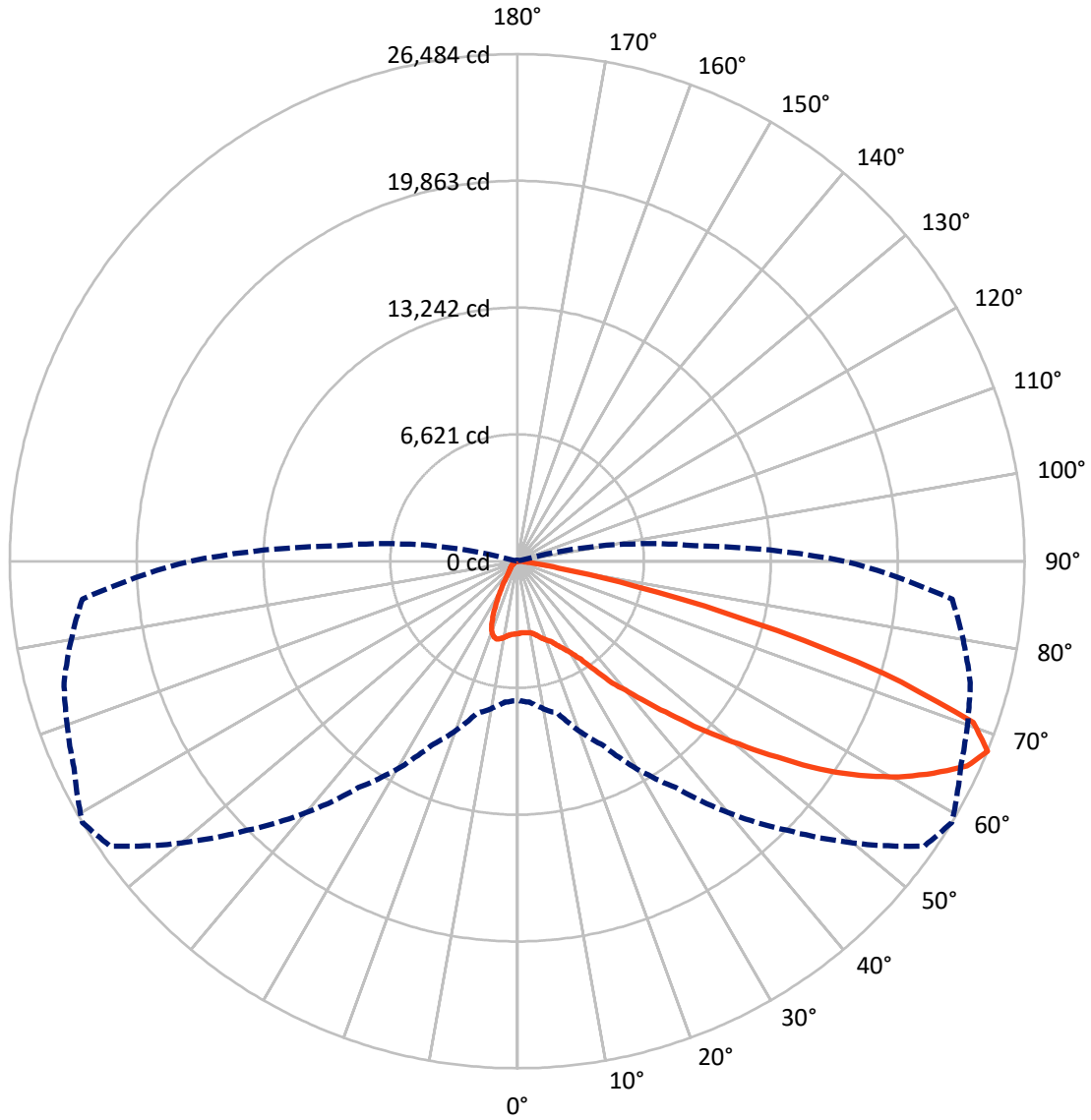
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P482362
CATALOG NUMBER: IFLD-L-SA8D-727-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482362
 CATALOG NUMBER: IFLD-L-SA8D-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4063.7	0.0	4063.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	30530.8	0.0	30530.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	34594.5	0.0	34594.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.0
10°-20°	1041.1	3.0
20°-30°	1819.6	5.3
30°-40°	3203.7	9.3
40°-50°	5663.1	16.4
50°-60°	8966.7	25.9
60°-70°	9946.5	28.8
70°-80°	3451.2	10.0
80°-90°	142.1	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°	34594.5	100.0
0°-180°	34594.5	100.0

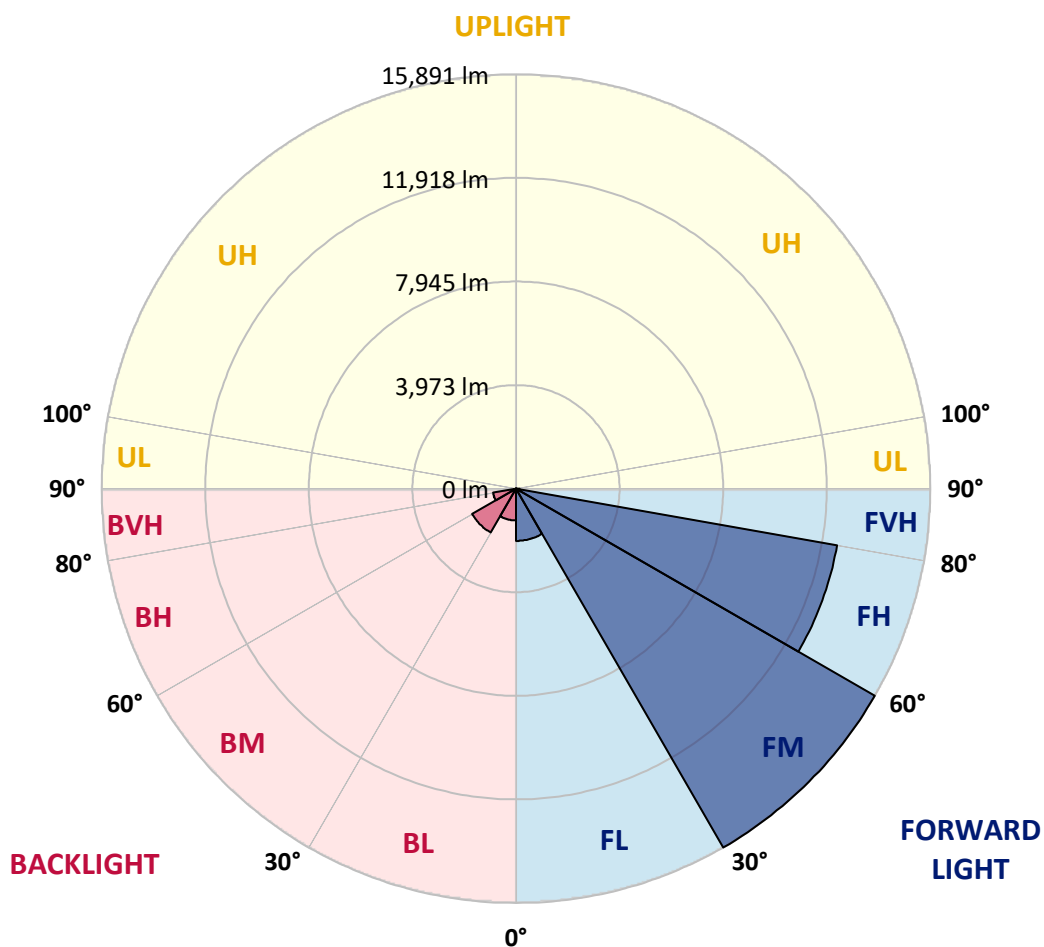


REPORT NUMBER: P482362
 CATALOG NUMBER: IFLD-L-SA8D-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.3	5.8			
FM (30°-60°)	15890.5	45.9			
FH (60°-80°)	12504.0	36.1			G5
FVH (80°-90°)	132.9	0.4			G2/225
BL (0°-30°)	1217.9	3.5	B3/2500		
BM (30°-60°)	1942.9	5.6	B2/2500		
BH (60°-80°)	893.7	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.2	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-G5
 Type III Short





REPORT NUMBER: P482362

CATALOG NUMBER: IFLD-L-SA8D-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	3684.5	3631.9	3679.7	3684.5	3689.3	3732.3	3780.1	3746.6	3741.8	3780.1	3813.5
5°	3536.3	3512.4	3569.8	3598.5	3646.2	3684.5	3760.9	3765.7	3770.5	3813.5	3870.9
7.5°	3474.2	3416.9	3483.8	3517.2	3550.7	3641.5	3732.3	3780.1	3847.0	3899.5	3956.9
10°	3350.0	3393.0	3412.1	3469.4	3565.0	3670.1	3780.1	3804.0	3952.1	3995.1	4133.7
12.5°	3393.0	3421.6	3459.9	3474.2	3579.3	3737.0	3885.2	3894.7	4047.7	4234.0	4305.7
15°	3502.9	3483.8	3498.1	3517.2	3641.5	3770.5	4009.4	4052.4	4195.8	4406.1	4582.9
17.5°	3737.0	3703.6	3679.7	3674.9	3703.6	3823.1	4105.0	4234.0	4367.9	4654.6	4745.4
20°	4324.8	4296.2	4200.6	3952.1	3866.1	3913.9	4219.7	4401.3	4587.7	4907.9	5056.0
22.5°	5218.5	5247.2	5022.6	4673.7	4315.3	4128.9	4401.3	4559.0	4855.3	5261.5	5395.3
25°	6274.6	6217.3	5944.9	5538.7	4974.8	4535.1	4692.8	4869.6	5232.8	5567.3	5619.9
27.5°	7101.3	7034.4	6824.2	6332.0	5844.5	5132.5	5075.1	5185.0	5615.1	5916.2	5858.8
30°	7918.5	7942.4	7799.1	7216.0	6613.9	5863.6	5500.4	5548.2	5878.0	6265.0	6136.0
32.5°	8960.3	8903.0	8821.7	8310.4	7598.3	6795.5	6174.3	6097.8	6241.2	6752.5	6599.6
35°	9930.4	9897.0	9787.0	9270.9	8649.7	7775.2	7168.2	6996.2	6962.8	7531.4	7263.8
37.5°	10776.3	10718.9	10551.7	10221.9	9619.8	8883.8	8219.6	8066.7	8061.9	8453.8	7937.6
40°	11488.3	11531.3	11512.2	11149.0	10819.3	10231.5	9213.6	8969.9	8950.8	9161.0	8860.0
42.5°	12410.6	12511.0	12458.4	12386.7	11990.1	11760.7	10609.0	10236.3	10069.0	10499.1	10226.7
45°	13806.0	13844.3	13877.7	13700.9	13304.3	13352.1	12052.2	11607.8	11564.8	12205.1	11593.4
47.5°	15110.7	15010.3	15244.5	15254.0	15234.9	15015.1	13610.1	13280.4	13337.7	13825.2	13194.4
50°	15435.6	15693.7	16338.8	16458.3	16768.9	16969.6	15340.1	15010.3	15105.9	15660.2	14938.6
52.5°	15688.9	16080.8	16725.9	17600.4	18436.7	18914.6	17275.5	17007.9	17003.1	17342.4	16348.4
55°	16133.3	16372.3	16931.4	18135.7	19727.0	20510.7	19607.5	19177.5	18790.4	19029.3	17810.7
57.5°	16090.3	16181.1	17050.9	18537.1	20749.7	22173.8	21523.9	21112.9	20615.9	20477.3	19492.9
60°	15335.3	15550.3	16525.2	18264.7	21380.5	23468.8	23311.1	22890.6	22035.2	21710.2	20783.1
62.5°	13839.5	14126.2	14890.8	17308.9	20463.0	23535.7	24544.1	24386.4	23430.6	22847.6	22465.3
65°	11215.9	11349.7	12229.0	14881.3	18388.9	22508.3	26001.6	25805.7	24926.4	24056.6	23330.3
67.5°	7263.8	7392.9	8238.7	10623.3	14441.6	19856.0	25944.3	26484.3	25533.3	24486.7	22790.3
70°	3431.2	3397.7	4186.3	5901.9	9251.8	15163.2	24190.4	25256.1	24448.5	22197.7	18929.0
72.5°	1046.6	1137.4	1739.5	2614.0	4750.2	9457.3	18962.4	19961.2	19707.9	17734.2	12635.2
75°	463.5	501.8	683.4	1070.5	1925.9	3880.4	11712.9	12601.8	12491.9	10460.9	5768.1
77.5°	296.3	325.0	430.1	611.7	874.5	1232.9	5395.3	6260.3	6069.1	3674.9	1510.1
80°	210.3	224.6	305.8	420.5	549.6	506.6	1859.0	2207.8	2117.0	998.8	406.2
82.5°	114.7	124.2	224.6	310.6	368.0	258.1	520.9	649.9	678.6	444.4	195.9
85°	43.0	52.6	138.6	219.8	191.2	119.5	152.9	186.4	243.7	243.7	90.8
87.5°	0.0	4.8	57.3	95.6	47.8	33.5	43.0	52.6	66.9	114.7	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482362
 CATALOG NUMBER: IFLD-L-SA8D-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	3837.4	3804.0	3818.3	3842.2	3789.6	3818.3	3760.9	3804.0	3818.3	3760.9	3789.6
5°	3885.2	3918.6	3899.5	3861.3	3827.8	3837.4	3823.1	3789.6	3818.3	3827.8	3808.7
7.5°	4023.8	3985.5	3995.1	3952.1	3885.2	3880.4	3789.6	3765.7	3775.3	3784.8	3751.4
10°	4152.8	4176.7	4128.9	4095.5	3985.5	3913.9	3789.6	3655.8	3641.5	3584.1	3631.9
12.5°	4382.2	4324.8	4305.7	4195.8	4085.9	3847.0	3579.3	3373.9	3201.8	3139.7	3077.6
15°	4573.3	4563.8	4530.3	4363.1	4109.8	3674.9	3168.4	2690.5	2360.7	2155.3	2126.6
17.5°	4836.2	4793.2	4731.0	4468.2	3933.0	3225.7	2360.7	1758.6	1428.9	1299.8	1252.1
20°	5036.9	5003.4	4917.4	4444.3	3612.8	2403.8	1462.3	1118.2	1037.0	1013.1	1017.9
22.5°	5328.4	5223.3	5060.8	4324.8	3029.8	1600.9	1051.3	998.8	984.4	965.3	970.1
25°	5581.7	5486.1	5146.8	4119.4	2160.0	1060.9	974.9	946.2	922.3	898.4	893.6
27.5°	5806.3	5686.8	5237.6	3698.8	1352.4	912.8	903.2	869.7	822.0	783.7	769.4
30°	6026.1	5887.5	5261.5	2910.3	912.8	826.7	802.8	750.3	688.2	635.6	626.0
32.5°	6394.1	6226.8	5228.0	2078.8	788.5	735.9	683.4	621.2	530.5	487.4	477.9
35°	6967.5	6714.3	5185.0	1223.4	707.3	649.9	568.7	487.4	420.5	377.5	368.0
37.5°	7627.0	7187.4	5060.8	817.2	649.9	573.5	468.3	387.1	329.7	296.3	286.7
40°	8606.7	7880.3	4582.9	669.0	578.2	487.4	377.5	305.8	262.8	238.9	229.4
42.5°	9686.7	8673.6	3847.0	602.1	511.3	415.8	301.1	248.5	215.0	191.2	191.2
45°	10981.8	9500.3	2967.7	549.6	454.0	344.1	248.5	200.7	172.0	152.9	143.4
47.5°	12425.0	10250.6	2002.3	497.0	382.3	282.0	205.5	152.9	124.2	109.9	109.9
50°	13715.2	10914.9	1275.9	434.9	334.5	234.2	167.3	124.2	100.4	81.2	76.5
52.5°	14886.1	11421.4	879.3	382.3	286.7	191.2	138.6	100.4	76.5	62.1	62.1
55°	16085.5	11679.5	649.9	329.7	248.5	162.5	114.7	90.8	66.9	52.6	47.8
57.5°	17070.0	11789.4	497.0	286.7	210.3	129.0	100.4	76.5	57.3	43.0	38.2
60°	17911.1	11736.8	387.1	238.9	167.3	109.9	86.0	62.1	47.8	33.5	28.7
62.5°	18403.3	11421.4	305.8	205.5	133.8	95.6	71.7	52.6	33.5	23.9	19.1
65°	18412.8	10752.4	238.9	152.9	100.4	81.2	62.1	43.0	23.9	9.6	4.8
67.5°	17093.9	9304.4	191.2	119.5	81.2	62.1	47.8	33.5	9.6	0.0	0.0
70°	13371.2	7039.2	157.7	95.6	66.9	52.6	33.5	19.1	4.8	0.0	0.0
72.5°	8520.7	4214.9	129.0	76.5	57.3	38.2	23.9	14.3	0.0	0.0	0.0
75°	3565.0	1299.8	100.4	66.9	43.0	28.7	19.1	4.8	0.0	0.0	0.0
77.5°	917.5	411.0	81.2	57.3	43.0	23.9	14.3	4.8	0.0	0.0	0.0
80°	272.4	152.9	66.9	47.8	33.5	19.1	9.6	4.8	0.0	0.0	0.0
82.5°	124.2	90.8	57.3	43.0	28.7	19.1	9.6	0.0	0.0	0.0	0.0
85°	47.8	28.7	28.7	23.9	23.9	14.3	4.8	0.0	0.0	0.0	0.0
87.5°	19.1	9.6	9.6	9.6	4.8	4.8	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)