

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: P482435

Luminaire Tested: **IFLD-L-SA7D-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

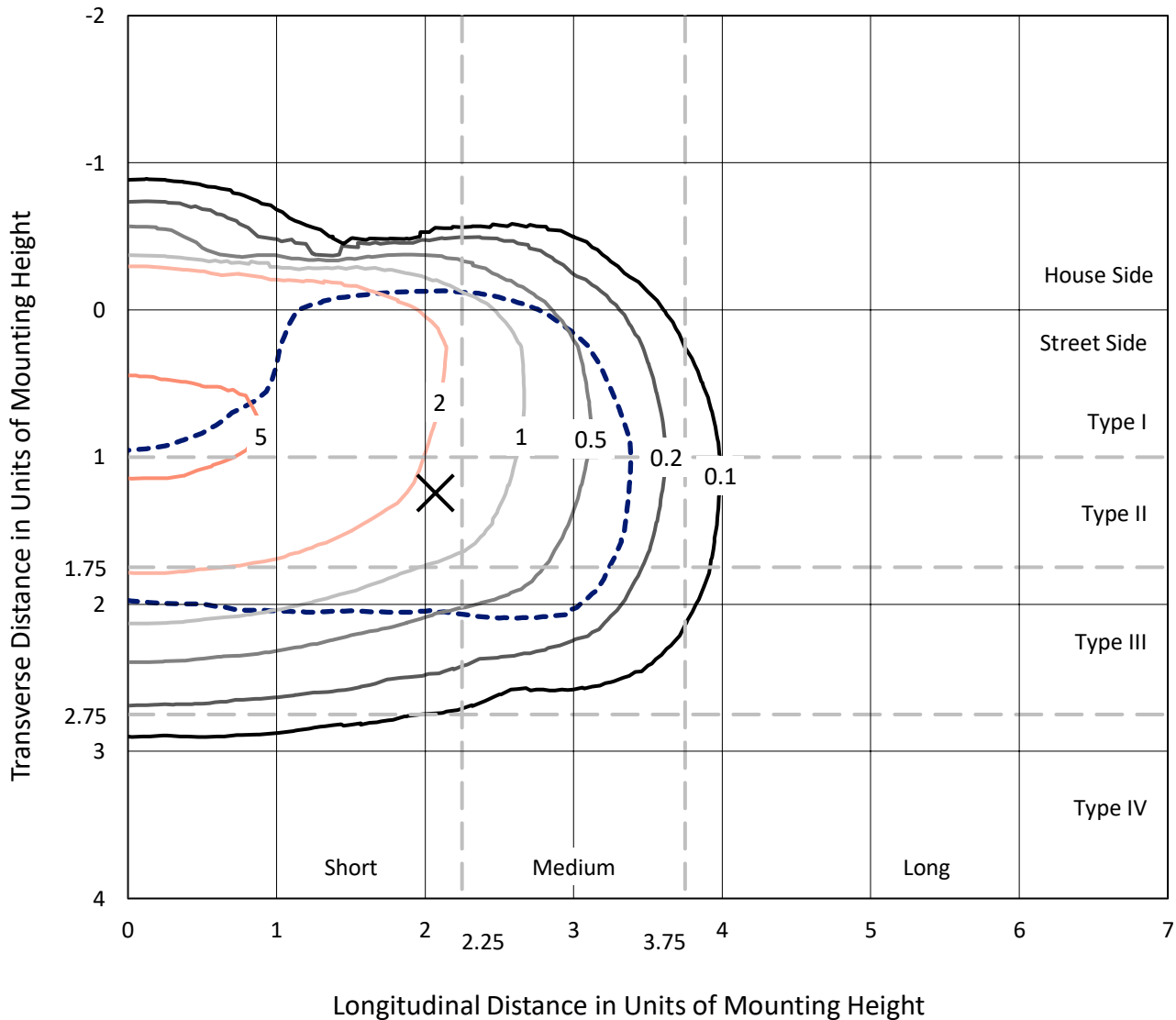
Lumens per Lamp: N/A
Luminaire Lumens: 35699.4 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

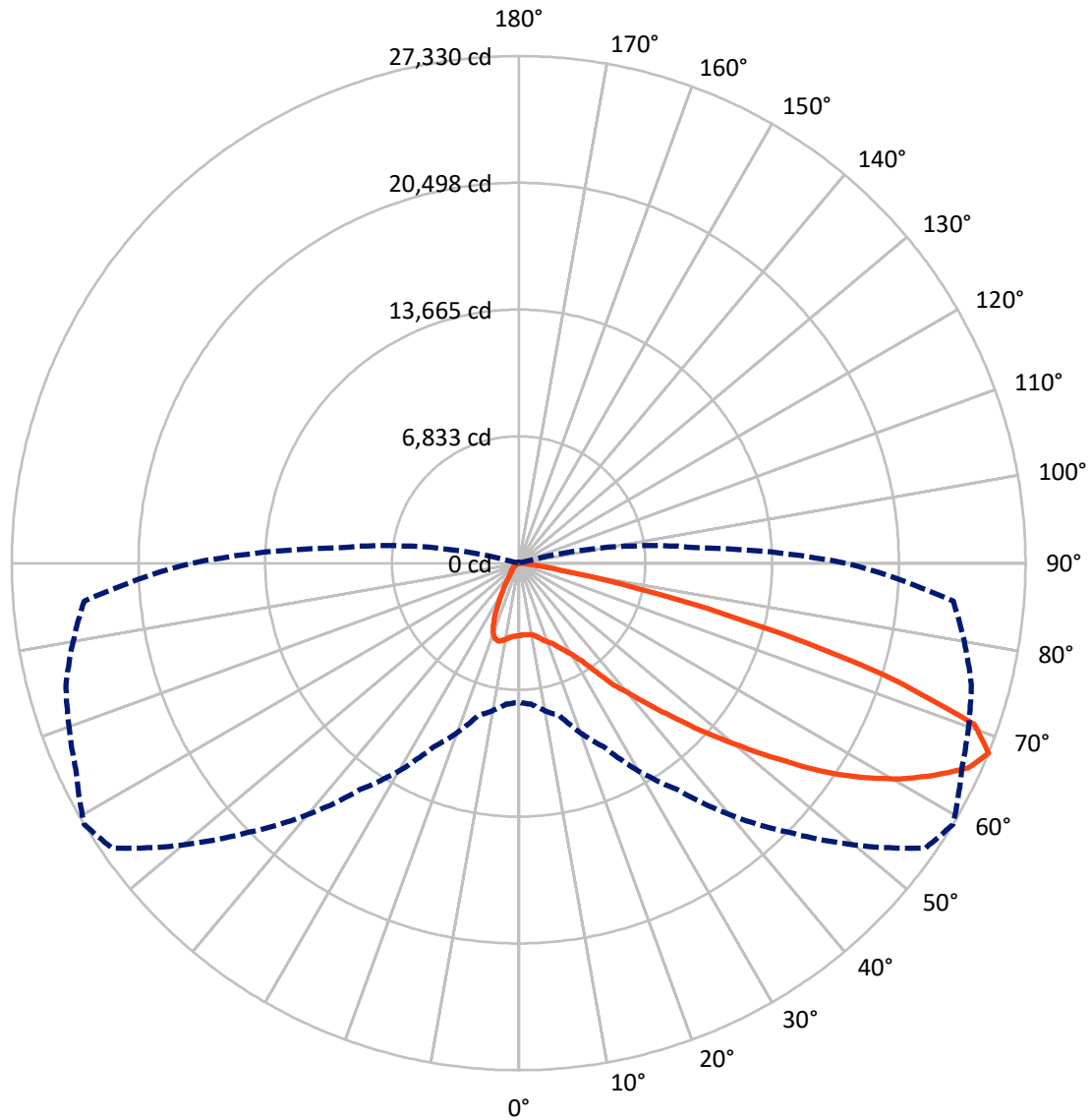
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	4193.5	0.0	4193.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	31505.9	0.0	31505.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	35699.4	0.0	35699.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	1.0
10°-20°	1074.4	3.0
20°-30°	1877.8	5.3
30°-40°	3306.0	9.3
40°-50°	5844.0	16.4
50°-60°	9253.1	25.9
60°-70°	10264.2	28.8
70°-80°	3561.4	10.0
80°-90°	146.7	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°	35699.4	100.0
0°-180°	35699.4	100.0

Coefficient of Utilization

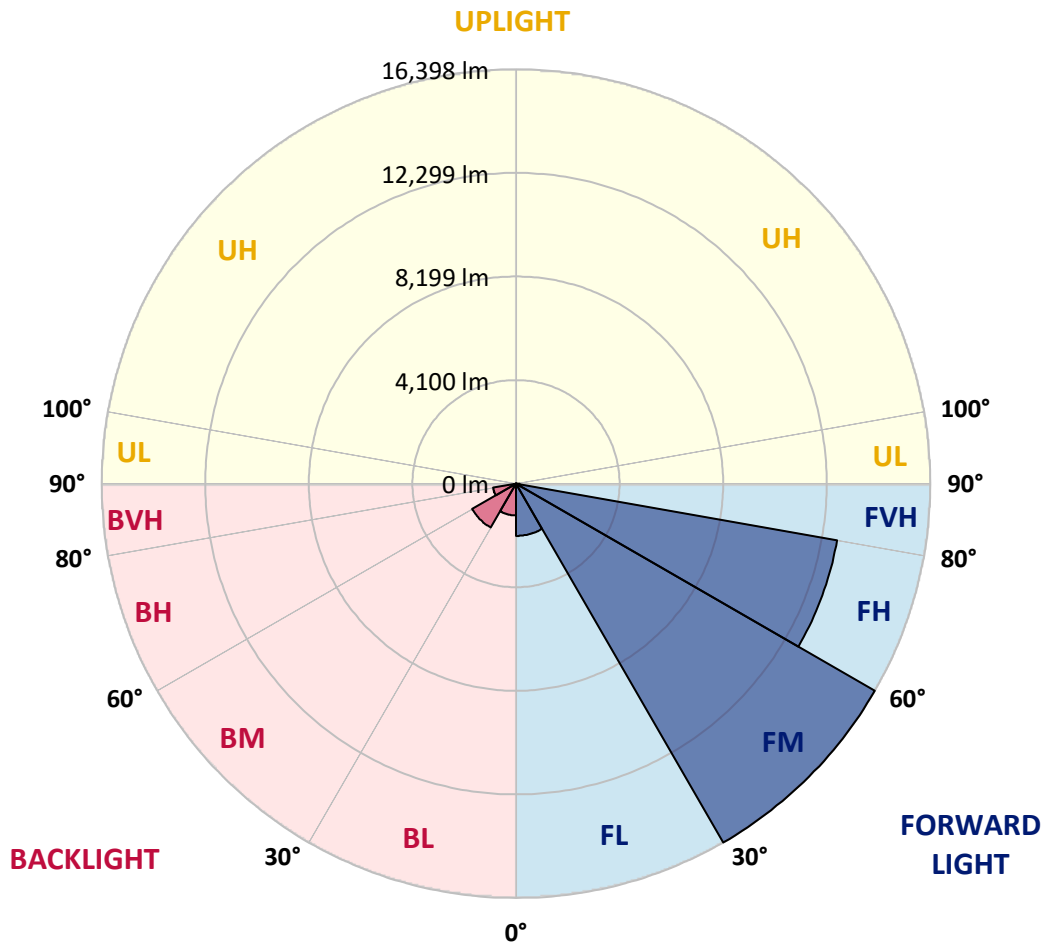


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.3	5.8			
FM (30°-60°)	16398.0	45.9			
FH (60°-80°)	12903.4	36.1			G5
FVH (80°-90°)	137.2	0.4			G2/225
BL (0°-30°)	1256.8	3.5	B3/2500		
BM (30°-60°)	2005.0	5.6	B2/2500		
BH (60°-80°)	922.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
2.5°	3802.2	3747.9	3797.2	3802.2	3807.1	3851.5	3900.8	3866.3	3861.3	3900.8	3935.3
5°	3649.3	3624.6	3683.8	3713.4	3762.7	3802.2	3881.1	3886.0	3890.9	3935.3	3994.5
7.5°	3585.2	3526.0	3595.0	3629.6	3664.1	3757.8	3851.5	3900.8	3969.8	4024.1	4083.3
10°	3457.0	3501.3	3521.1	3580.2	3678.9	3787.4	3900.8	3925.4	4078.3	4122.7	4265.7
12.5°	3501.3	3530.9	3570.4	3585.2	3693.7	3856.4	4009.3	4019.1	4176.9	4369.3	4443.2
15°	3614.8	3595.0	3609.8	3629.6	3757.8	3890.9	4137.5	4181.9	4329.8	4546.8	4729.3
17.5°	3856.4	3821.9	3797.2	3792.3	3821.9	3945.2	4236.1	4369.3	4507.4	4803.2	4896.9
20°	4463.0	4433.4	4334.8	4078.3	3989.6	4038.9	4354.5	4541.9	4734.2	5064.6	5217.5
22.5°	5385.2	5414.7	5183.0	4823.0	4453.1	4260.8	4541.9	4704.6	5010.4	5429.5	5567.6
25°	6475.0	6415.8	6134.7	5715.6	5133.7	4680.0	4842.7	5025.2	5400.0	5745.2	5799.4
27.5°	7328.2	7259.1	7042.1	6534.2	6031.2	5296.4	5237.2	5350.6	5794.5	6105.1	6046.0
30°	8171.4	8196.1	8048.1	7446.5	6825.1	6050.9	5676.1	5725.4	6065.7	6465.1	6332.0
32.5°	9246.5	9187.3	9103.5	8575.8	7841.0	7012.5	6371.4	6292.5	6440.5	6968.2	6810.3
35°	10247.6	10213.1	10099.6	9567.0	8925.9	8023.5	7397.2	7219.7	7185.1	7772.0	7495.8
37.5°	11120.4	11061.3	10888.7	10548.4	9927.0	9167.6	8482.1	8324.3	8319.4	8723.8	8191.2
40°	11855.2	11899.6	11879.9	11505.1	11164.8	10558.3	9507.9	9256.4	9236.6	9453.6	9142.9
42.5°	12807.0	12910.6	12856.3	12782.3	12373.0	12136.3	10947.8	10563.2	10390.6	10834.4	10553.3
45°	14247.0	14286.4	14321.0	14138.5	13729.2	13778.5	12437.1	11978.5	11934.1	12595.0	11963.7
47.5°	15593.3	15489.7	15731.4	15741.2	15721.5	15494.7	14044.8	13704.5	13763.7	14266.7	13615.8
50°	15928.6	16194.9	16860.7	16984.0	17304.5	17511.6	15830.0	15489.7	15588.4	16160.4	15415.7
52.5°	16190.0	16594.4	17260.1	18162.6	19025.6	19518.7	17827.2	17551.1	17546.1	17896.3	16870.5
55°	16648.6	16895.2	17472.2	18714.9	20357.1	21165.8	20233.8	19790.0	19390.5	19637.1	18379.6
57.5°	16604.2	16697.9	17595.5	19129.1	21412.4	22882.0	22211.3	21787.2	21274.3	21131.3	20115.4
60°	15825.1	16047.0	17053.0	18848.0	22063.4	24218.4	24055.7	23621.7	22739.0	22403.6	21446.9
62.5°	14281.5	14577.4	15366.4	17861.8	21116.5	24287.4	25328.0	25165.2	24179.0	23577.3	23182.8
65°	11574.1	11712.2	12619.6	15356.6	18976.3	23227.2	26832.1	26629.9	25722.5	24825.0	24075.4
67.5°	7495.8	7629.0	8501.8	10962.6	14902.9	20490.2	26772.9	27330.2	26348.8	25268.8	23518.1
70°	3540.8	3506.3	4320.0	6090.4	9547.3	15647.5	24963.1	26062.8	25229.4	22906.6	19533.5
72.5°	1080.0	1173.7	1795.1	2697.5	4901.9	9759.4	19568.0	20598.7	20337.3	18300.7	13038.8
75°	478.4	517.8	705.2	1104.6	1987.4	4004.3	12087.0	13004.3	12890.8	10795.0	5952.3
77.5°	305.8	335.3	443.8	631.2	902.5	1272.3	5567.6	6460.2	6263.0	3792.3	1558.3
80°	217.0	231.8	315.6	434.0	567.1	522.7	1918.3	2278.3	2184.6	1030.7	419.2
82.5°	118.4	128.2	231.8	320.5	379.7	266.3	537.5	670.7	700.3	458.6	202.2
85°	44.4	54.2	143.0	226.8	197.3	123.3	157.8	192.3	251.5	251.5	93.7
87.5°	0.0	4.9	59.2	98.6	49.3	34.5	44.4	54.2	69.0	118.4	34.5
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°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
2.5°	3960.0	3925.4	3940.2	3964.9	3910.6	3940.2	3881.1	3925.4	3940.2	3881.1	3910.6
5°	4009.3	4043.8	4024.1	3984.6	3950.1	3960.0	3945.2	3910.6	3940.2	3950.1	3930.4
7.5°	4152.3	4112.8	4122.7	4078.3	4009.3	4004.3	3910.6	3886.0	3895.9	3905.7	3871.2
10°	4285.4	4310.1	4260.8	4226.3	4112.8	4038.9	3910.6	3772.6	3757.8	3698.6	3747.9
12.5°	4522.2	4463.0	4443.2	4329.8	4216.4	3969.8	3693.7	3481.6	3304.1	3240.0	3175.9
15°	4719.4	4709.5	4675.0	4502.4	4241.1	3792.3	3269.6	2776.4	2436.1	2224.1	2194.5
17.5°	4990.6	4946.3	4882.1	4610.9	4058.6	3328.7	2436.1	1814.8	1474.5	1341.4	1292.0
20°	5197.8	5163.2	5074.5	4586.3	3728.2	2480.5	1509.0	1154.0	1070.1	1045.5	1050.4
22.5°	5498.6	5390.1	5222.4	4463.0	3126.5	1652.0	1084.9	1030.7	1015.9	996.2	1001.1
25°	5759.9	5661.3	5311.2	4250.9	2229.0	1094.8	1006.0	976.4	951.8	927.1	922.2
27.5°	5991.7	5868.4	5404.9	3817.0	1395.6	941.9	932.0	897.5	848.2	808.8	794.0
30°	6218.6	6075.6	5429.5	3003.3	941.9	853.1	828.5	774.2	710.1	655.9	646.0
32.5°	6598.3	6425.7	5395.0	2145.2	813.7	759.4	705.2	641.1	547.4	503.0	493.1
35°	7190.1	6928.7	5350.6	1262.5	729.9	670.7	586.8	503.0	434.0	389.6	379.7
37.5°	7870.6	7416.9	5222.4	843.3	670.7	591.8	483.3	399.4	340.3	305.8	295.9
40°	8881.6	8132.0	4729.3	690.4	596.7	503.0	389.6	315.6	271.2	246.6	236.7
42.5°	9996.1	8950.6	3969.8	621.4	527.7	429.0	310.7	256.4	221.9	197.3	197.3
45°	11332.5	9803.7	3062.4	567.1	468.5	355.1	256.4	207.1	177.5	157.8	147.9
47.5°	12821.8	10578.0	2066.3	512.9	394.5	291.0	212.1	157.8	128.2	113.4	113.4
50°	14153.3	11263.5	1316.7	448.8	345.2	241.6	172.6	128.2	103.6	83.8	78.9
52.5°	15361.5	11786.2	907.4	394.5	295.9	197.3	143.0	103.6	78.9	64.1	64.1
55°	16599.3	12052.5	670.7	340.3	256.4	167.7	118.4	93.7	69.0	54.2	49.3
57.5°	17615.2	12165.9	512.9	295.9	217.0	133.1	103.6	78.9	59.2	44.4	39.5
60°	18483.1	12111.7	399.4	246.6	172.6	113.4	88.8	64.1	49.3	34.5	29.6
62.5°	18991.1	11786.2	315.6	212.1	138.1	98.6	74.0	54.2	34.5	24.7	19.7
65°	19000.9	11095.8	246.6	157.8	103.6	83.8	64.1	44.4	24.7	9.9	4.9
67.5°	17639.8	9601.6	197.3	123.3	83.8	64.1	49.3	34.5	9.9	0.0	0.0
70°	13798.2	7264.0	162.7	98.6	69.0	54.2	34.5	19.7	4.9	0.0	0.0
72.5°	8792.8	4349.5	133.1	78.9	59.2	39.5	24.7	14.8	0.0	0.0	0.0
75°	3678.9	1341.4	103.6	69.0	44.4	29.6	19.7	4.9	0.0	0.0	0.0
77.5°	946.8	424.1	83.8	59.2	44.4	24.7	14.8	4.9	0.0	0.0	0.0
80°	281.1	157.8	69.0	49.3	34.5	19.7	9.9	4.9	0.0	0.0	0.0
82.5°	128.2	93.7	59.2	44.4	29.6	19.7	9.9	0.0	0.0	0.0	0.0
85°	49.3	29.6	29.6	24.7	24.7	14.8	4.9	0.0	0.0	0.0	0.0
87.5°	19.7	9.9	9.9	9.9	4.9	4.9	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)