

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: P482434

Luminaire Tested: **IFLD-L-SA7C-735-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482434  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-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**

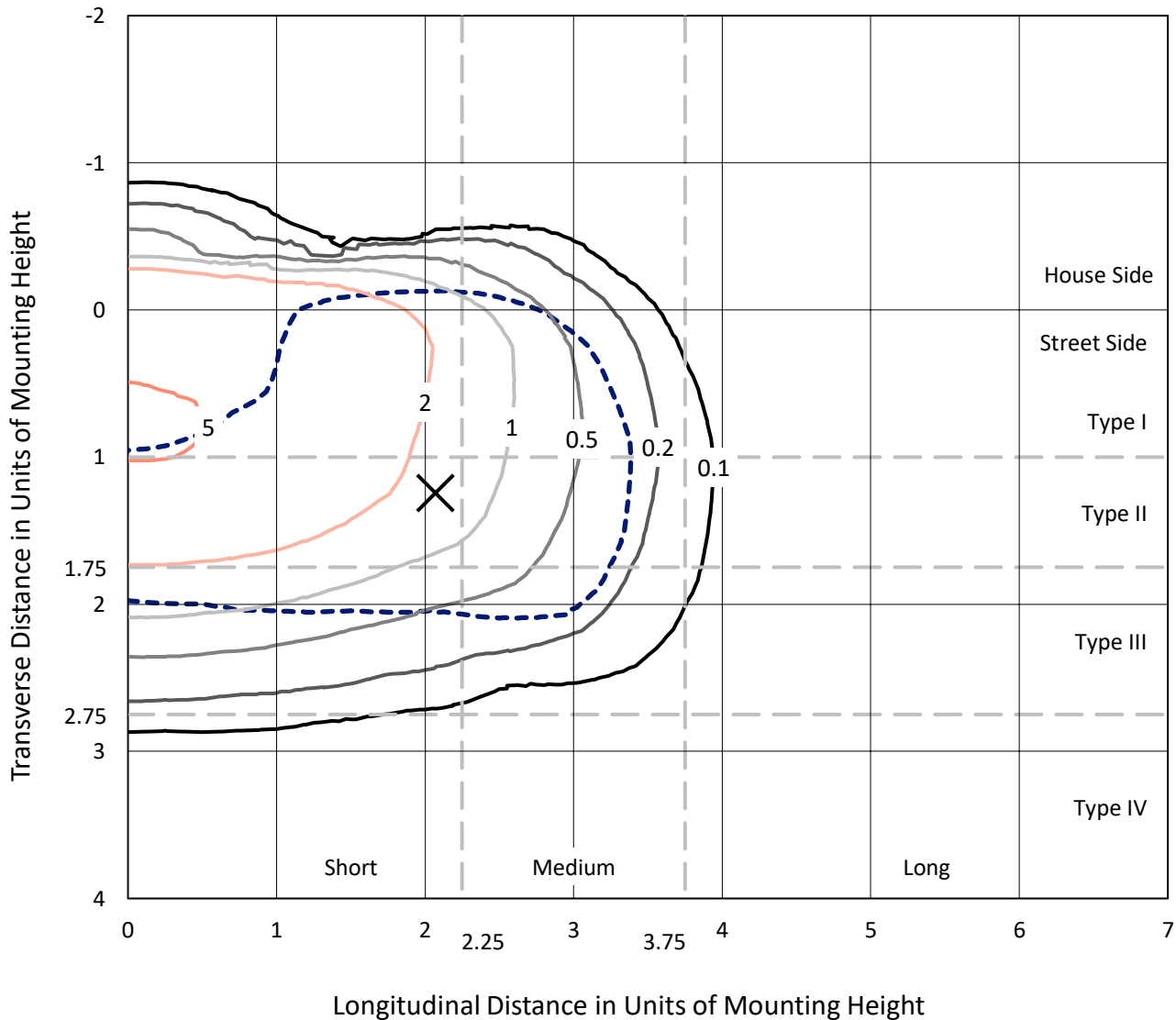
Lumens per Lamp: N/A  
Luminaire Lumens: 32443.9 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 369  
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

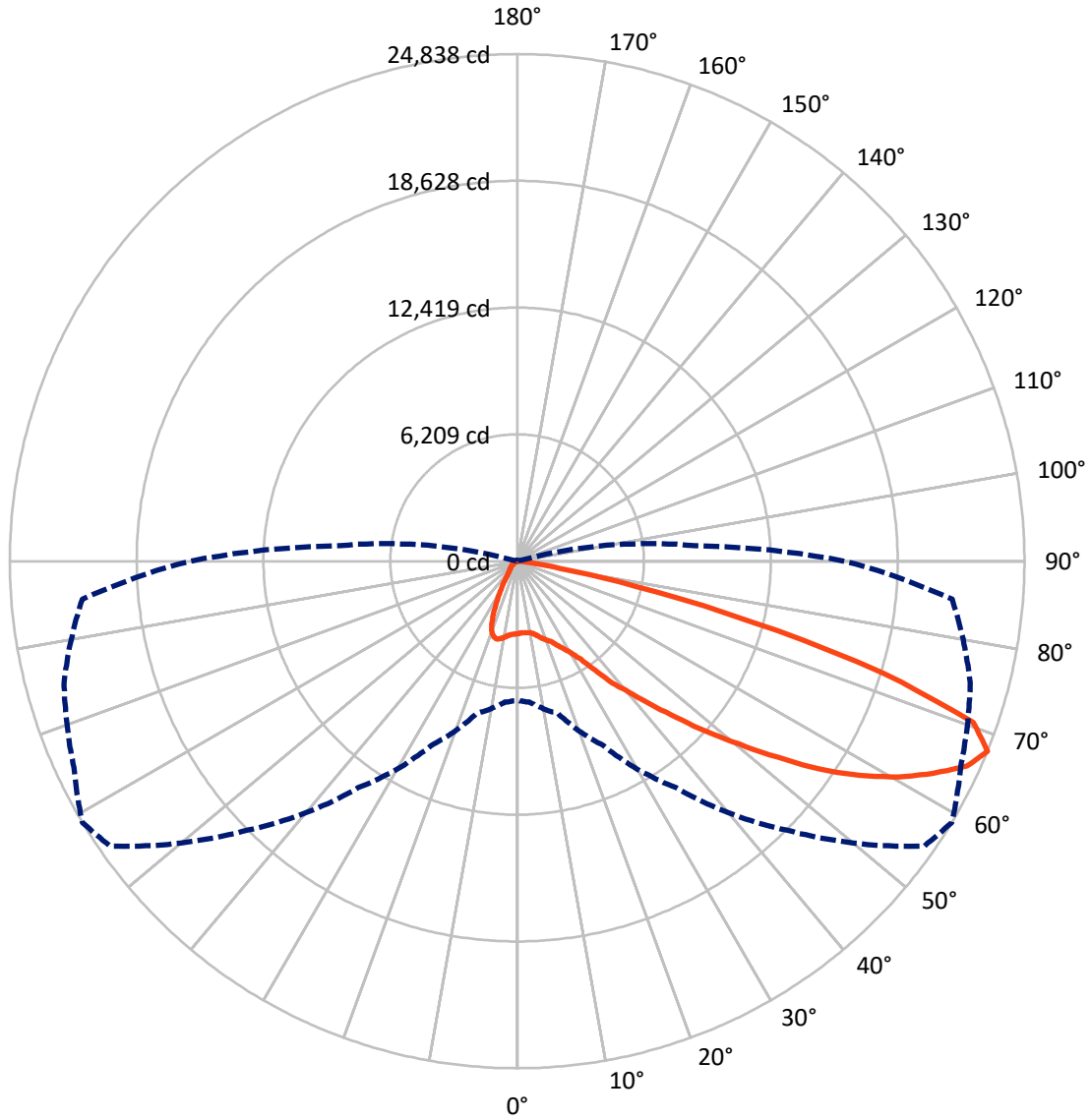
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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
<b>House Side</b>	Lumens	3811.1	0.0	3811.1
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	28632.8	0.0	28632.8
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	32443.9	0.0	32443.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.0	1.0
10°-20°	976.4	3.0
20°-30°	1706.5	5.3
30°-40°	3004.5	9.3
40°-50°	5311.0	16.4
50°-60°	8409.3	25.9
60°-70°	9328.2	28.8
70°-80°	3236.7	10.0
80°-90°	133.3	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°	32443.9	100.0
0°-180°	32443.9	100.0

**Coefficient of Utilization**

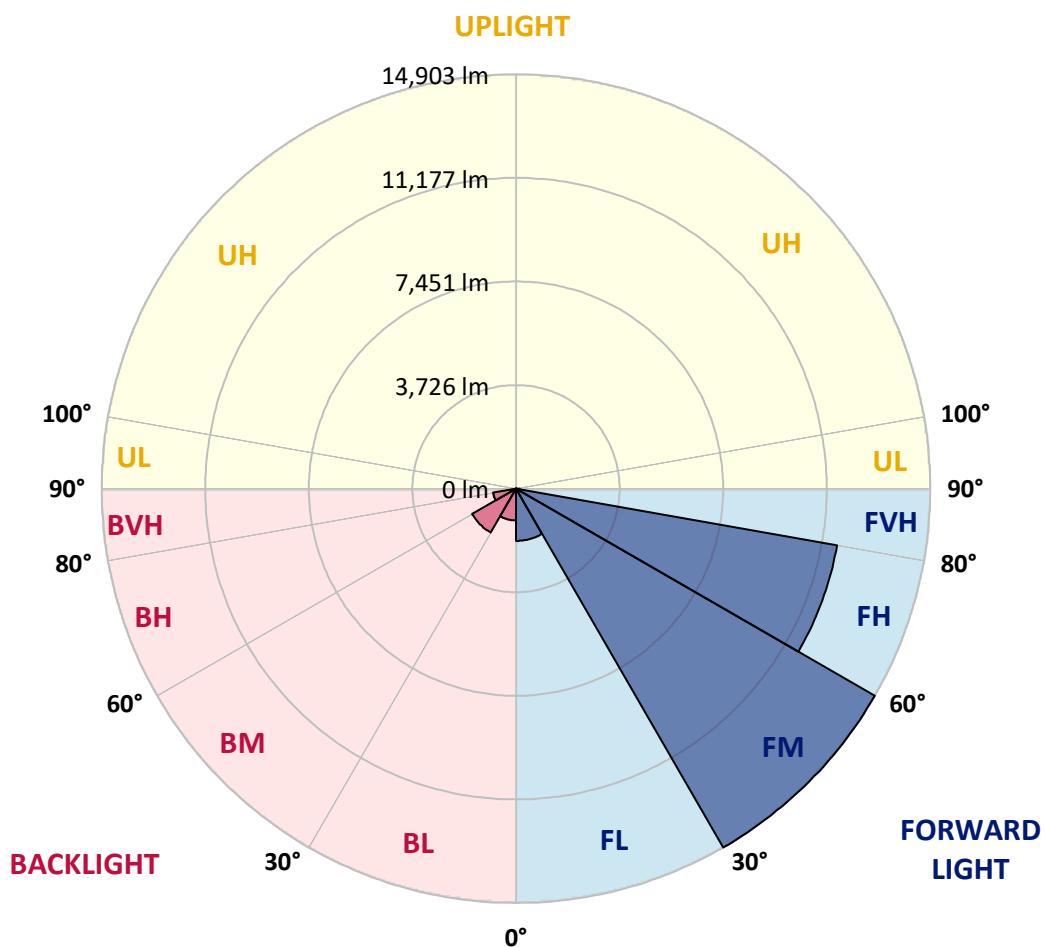


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.7	5.8			
FM (30°-60°)	14902.7	45.9			
FH (60°-80°)	11726.7	36.1			G4/12000
FVH (80°-90°)	124.7	0.4			G2/225
BL (0°-30°)	1142.2	3.5	B3/2500		
BM (30°-60°)	1822.1	5.6	B2/2500		
BH (60°-80°)	838.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.6	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°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3455.4	3406.1	3451.0	3455.4	3459.9	3500.3	3545.1	3513.7	3509.2	3545.1	3576.4
5°	3316.5	3294.1	3347.9	3374.8	3419.6	3455.4	3527.1	3531.6	3536.1	3576.4	3630.2
7.5°	3258.2	3204.5	3267.2	3298.6	3329.9	3415.1	3500.3	3545.1	3607.8	3657.1	3710.9
10°	3141.7	3182.0	3200.0	3253.8	3343.4	3442.0	3545.1	3567.5	3706.4	3746.7	3876.7
12.5°	3182.0	3208.9	3244.8	3258.2	3356.8	3504.7	3643.7	3652.6	3796.0	3970.8	4038.1
15°	3285.1	3267.2	3280.6	3298.6	3415.1	3536.1	3760.2	3800.5	3935.0	4132.2	4298.0
17.5°	3504.7	3473.4	3451.0	3446.5	3473.4	3585.4	3849.8	3970.8	4096.3	4365.2	4450.4
20°	4056.0	4029.1	3939.5	3706.4	3625.7	3670.6	3957.4	4127.7	4302.5	4602.8	4741.7
22.5°	4894.1	4921.0	4710.3	4383.2	4047.0	3872.2	4127.7	4275.6	4553.5	4934.4	5059.9
25°	5884.5	5830.8	5575.3	5194.4	4665.5	4253.2	4401.1	4566.9	4907.5	5221.2	5270.5
27.5°	6659.9	6597.1	6399.9	5938.3	5481.2	4813.4	4759.6	4862.7	5266.1	5548.4	5494.6
30°	7426.3	7448.7	7314.2	6767.5	6202.8	5499.1	5158.5	5203.3	5512.6	5875.6	5754.6
32.5°	8403.3	8349.5	8273.3	7793.8	7126.0	6373.1	5790.4	5718.7	5853.2	6332.7	6189.3
35°	9313.1	9281.7	9178.6	8694.6	8112.0	7291.8	6722.6	6561.3	6529.9	7063.2	6812.3
37.5°	10106.4	10052.6	9895.7	9586.5	9021.8	8331.6	7708.6	7565.2	7560.7	7928.2	7444.2
40°	10774.1	10814.5	10796.6	10455.9	10146.7	9595.4	8640.8	8412.3	8394.3	8591.5	8309.2
42.5°	11639.1	11733.2	11683.9	11616.7	11244.7	11029.6	9949.5	9599.9	9443.1	9846.4	9591.0
45°	12947.8	12983.6	13015.0	12849.2	12477.2	12522.0	11303.0	10886.2	10845.9	11446.4	10872.7
47.5°	14171.3	14077.2	14296.8	14305.8	14287.8	14081.7	12764.0	12454.8	12508.6	12965.7	12374.1
50°	14476.1	14718.1	15323.1	15435.2	15726.5	15914.7	14386.4	14077.2	14166.8	14686.7	14010.0
52.5°	14713.6	15081.1	15686.1	16506.3	17290.6	17738.8	16201.5	15950.6	15946.1	16264.3	15332.1
55°	15130.4	15354.5	15878.9	17008.3	18500.7	19235.7	18388.6	17985.3	17622.3	17846.4	16703.5
57.5°	15090.1	15175.2	15990.9	17384.7	19459.8	20795.4	20185.8	19800.4	19334.3	19204.3	18281.1
60°	14382.0	14583.6	15497.9	17129.3	20051.4	22009.9	21862.0	21467.6	20665.4	20360.6	19491.2
62.5°	12979.2	13248.1	13965.2	16232.9	19190.9	22072.7	23018.3	22870.4	21974.1	21427.3	21068.7
65°	10518.7	10644.2	11468.8	13956.2	17245.8	21109.1	24385.2	24201.5	23376.8	22561.2	21879.9
67.5°	6812.3	6933.3	7726.5	9962.9	13543.9	18621.7	24331.5	24837.9	23946.0	22964.5	21373.5
70°	3217.9	3186.5	3926.0	5535.0	8676.7	14220.6	22686.7	23686.1	22928.7	20817.8	17752.2
72.5°	981.5	1066.7	1631.4	2451.5	4454.9	8869.4	17783.6	18720.3	18482.8	16631.8	11849.8
75°	434.7	470.6	640.9	1003.9	1806.1	3639.2	10984.8	11818.4	11715.3	9810.6	5409.5
77.5°	277.9	304.8	403.4	573.7	820.2	1156.3	5059.9	5871.1	5691.8	3446.5	1416.2
80°	197.2	210.6	286.8	394.4	515.4	475.1	1743.4	2070.6	1985.4	936.7	380.9
82.5°	107.6	116.5	210.6	291.3	345.1	242.0	488.5	609.5	636.4	416.8	183.8
85°	40.3	49.3	130.0	206.2	179.3	112.0	143.4	174.8	228.6	228.6	85.2
87.5°	0.0	4.5	53.8	89.6	44.8	31.4	40.3	49.3	62.7	107.6	31.4
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°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3598.9	3567.5	3580.9	3603.3	3554.0	3580.9	3527.1	3567.5	3580.9	3527.1	3554.0
5°	3643.7	3675.0	3657.1	3621.3	3589.9	3598.9	3585.4	3554.0	3580.9	3589.9	3572.0
7.5°	3773.6	3737.8	3746.7	3706.4	3643.7	3639.2	3554.0	3531.6	3540.6	3549.6	3518.2
10°	3894.6	3917.1	3872.2	3840.9	3737.8	3670.6	3554.0	3428.5	3415.1	3361.3	3406.1
12.5°	4109.8	4056.0	4038.1	3935.0	3831.9	3607.8	3356.8	3164.1	3002.8	2944.5	2886.3
15°	4289.0	4280.1	4248.7	4091.8	3854.3	3446.5	2971.4	2523.2	2214.0	2021.3	1994.4
17.5°	4535.5	4495.2	4436.9	4190.4	3688.5	3025.2	2214.0	1649.3	1340.0	1219.0	1174.2
20°	4723.8	4692.4	4611.7	4168.0	3388.2	2254.3	1371.4	1048.7	972.5	950.1	954.6
22.5°	4997.2	4898.6	4746.2	4056.0	2841.4	1501.4	986.0	936.7	923.2	905.3	909.8
25°	5234.7	5145.1	4826.9	3863.3	2025.8	994.9	914.3	887.4	865.0	842.6	838.1
27.5°	5445.3	5333.3	4912.0	3468.9	1268.3	856.0	847.1	815.7	770.9	735.0	721.6
30°	5651.5	5521.5	4934.4	2729.4	856.0	775.3	752.9	703.6	645.4	596.1	587.1
32.5°	5996.6	5839.7	4903.0	1949.6	739.5	690.2	640.9	582.6	497.5	457.1	448.2
35°	6534.4	6296.9	4862.7	1147.3	663.3	609.5	533.3	457.1	394.4	354.1	345.1
37.5°	7152.9	6740.6	4746.2	766.4	609.5	537.8	439.2	363.0	309.2	277.9	268.9
40°	8071.6	7390.4	4298.0	627.4	542.3	457.1	354.1	286.8	246.5	224.1	215.1
42.5°	9084.5	8134.4	3607.8	564.7	479.5	389.9	282.4	233.1	201.7	179.3	179.3
45°	10299.1	8909.7	2783.2	515.4	425.8	322.7	233.1	188.2	161.3	143.4	134.5
47.5°	11652.6	9613.4	1877.9	466.1	358.5	264.4	192.7	143.4	116.5	103.1	103.1
50°	12862.6	10236.3	1196.6	407.8	313.7	219.6	156.9	116.5	94.1	76.2	71.7
52.5°	13960.7	10711.4	824.6	358.5	268.9	179.3	130.0	94.1	71.7	58.3	58.3
55°	15085.6	10953.4	609.5	309.2	233.1	152.4	107.6	85.2	62.7	49.3	44.8
57.5°	16008.8	11056.5	466.1	268.9	197.2	121.0	94.1	71.7	53.8	40.3	35.9
60°	16797.6	11007.2	363.0	224.1	156.9	103.1	80.7	58.3	44.8	31.4	26.9
62.5°	17259.2	10711.4	286.8	192.7	125.5	89.6	67.2	49.3	31.4	22.4	17.9
65°	17268.2	10084.0	224.1	143.4	94.1	76.2	58.3	40.3	22.4	9.0	4.5
67.5°	16031.2	8726.0	179.3	112.0	76.2	58.3	44.8	31.4	9.0	0.0	0.0
70°	12540.0	6601.6	147.9	89.6	62.7	49.3	31.4	17.9	4.5	0.0	0.0
72.5°	7991.0	3952.9	121.0	71.7	53.8	35.9	22.4	13.4	0.0	0.0	0.0
75°	3343.4	1219.0	94.1	62.7	40.3	26.9	17.9	4.5	0.0	0.0	0.0
77.5°	860.5	385.4	76.2	53.8	40.3	22.4	13.4	4.5	0.0	0.0	0.0
80°	255.5	143.4	62.7	44.8	31.4	17.9	9.0	4.5	0.0	0.0	0.0
82.5°	116.5	85.2	53.8	40.3	26.9	17.9	9.0	0.0	0.0	0.0	0.0
85°	44.8	26.9	26.9	22.4	22.4	13.4	4.5	0.0	0.0	0.0	0.0
87.5°	17.9	9.0	9.0	9.0	4.5	4.5	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)