

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: P482517

Luminaire Tested: **IFLD-L-SA8C-750-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482517
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

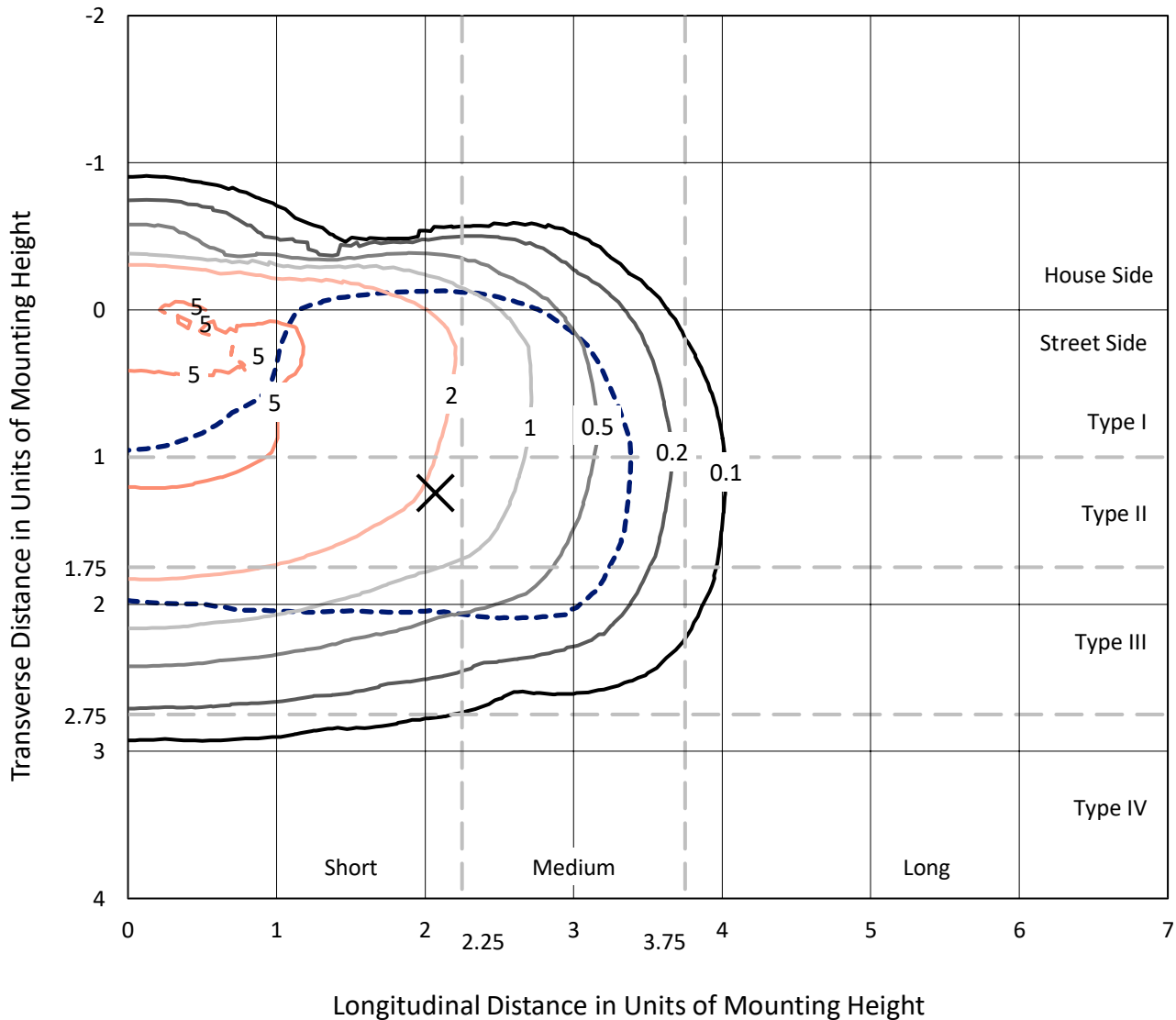
Lumens per Lamp: N/A
Luminaire Lumens: 38454.8 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

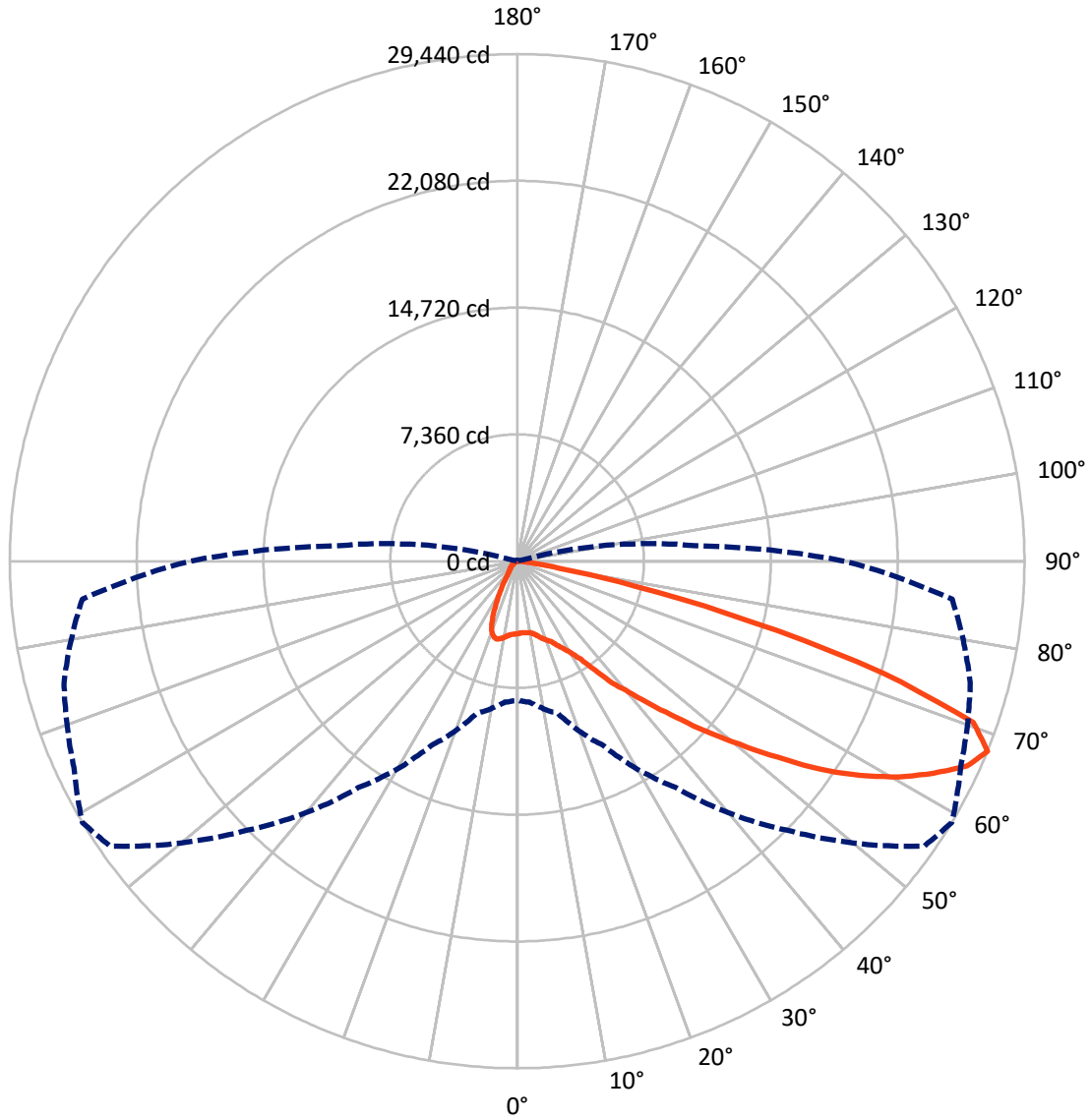
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	4517.2	0.0	4517.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	33937.6	0.0	33937.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	38454.8	0.0	38454.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.7	1.0
10°-20°	1157.3	3.0
20°-30°	2022.7	5.3
30°-40°	3561.2	9.3
40°-50°	6295.0	16.4
50°-60°	9967.2	25.9
60°-70°	11056.4	28.8
70°-80°	3836.3	10.0
80°-90°	158.0	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°	38454.8	100.0
0°-180°	38454.8	100.0

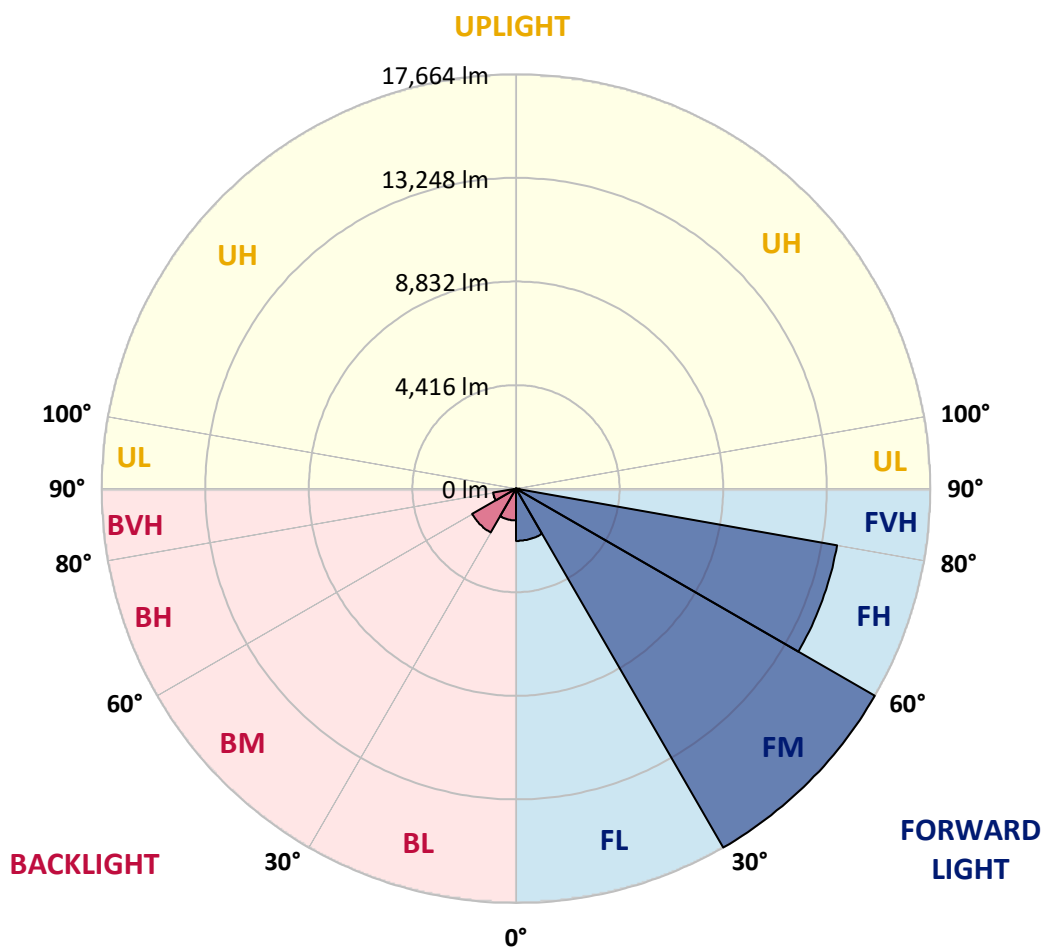


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2226.8	5.8			
FM (30°-60°)	17663.7	45.9			
FH (60°-80°)	13899.3	36.1			G5
FVH (80°-90°)	147.8	0.4			G2/225
BL (0°-30°)	1353.8	3.5	B3/2500		
BM (30°-60°)	2159.7	5.6	B2/2500		
BH (60°-80°)	993.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	10.2	0.0			G1/100
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°	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8
2.5°	4095.6	4037.2	4090.3	4095.6	4100.9	4148.7	4201.9	4164.7	4159.4	4201.9	4239.0
5°	3930.9	3904.4	3968.1	4000.0	4053.1	4095.6	4180.6	4185.9	4191.2	4239.0	4302.8
7.5°	3861.9	3798.1	3872.5	3909.7	3946.9	4047.8	4148.7	4201.9	4276.2	4334.7	4398.4
10°	3723.8	3771.6	3792.8	3856.6	3962.8	4079.7	4201.9	4228.4	4393.1	4440.9	4595.0
12.5°	3771.6	3803.5	3846.0	3861.9	3978.8	4154.1	4318.7	4329.4	4499.3	4706.5	4786.2
15°	3893.8	3872.5	3888.5	3909.7	4047.8	4191.2	4456.8	4504.7	4664.0	4897.7	5094.3
17.5°	4154.1	4116.9	4090.3	4085.0	4116.9	4249.7	4563.1	4706.5	4855.3	5174.0	5274.9
20°	4807.4	4775.6	4669.3	4393.1	4297.5	4350.6	4690.6	4892.4	5099.6	5455.5	5620.2
22.5°	5800.8	5832.7	5583.0	5195.2	4796.8	4589.6	4892.4	5067.7	5397.1	5848.6	5997.4
25°	6974.8	6911.0	6608.2	6156.7	5529.9	5041.2	5216.5	5413.0	5816.7	6188.6	6247.0
27.5°	7893.8	7819.4	7585.7	7038.5	6496.7	5705.2	5641.4	5763.6	6241.7	6576.4	6512.6
30°	8802.1	8828.7	8669.3	8021.3	7351.9	6517.9	6114.2	6167.3	6533.9	6964.2	6820.7
32.5°	9960.2	9896.4	9806.1	9237.7	8446.2	7553.8	6863.2	6778.2	6937.6	7506.0	7336.0
35°	11038.5	11001.3	10879.2	10305.5	9614.9	8642.8	7968.1	7776.9	7739.7	8371.9	8074.4
37.5°	11978.8	11915.0	11729.1	11362.6	10693.2	9875.2	9136.8	8966.8	8961.5	9397.1	8823.4
40°	12770.3	12818.1	12796.8	12393.1	12026.6	11373.2	10241.7	9970.8	9949.5	10183.3	9848.6
42.5°	13795.5	13907.1	13848.6	13768.9	13328.0	13073.1	11792.8	11378.5	11192.6	11670.7	11367.9
45°	15346.6	15389.1	15426.3	15229.8	14788.9	14842.0	13397.1	12903.1	12855.3	13567.1	12887.1
47.5°	16796.8	16685.3	16945.6	16956.2	16934.9	16690.6	15128.8	14762.3	14826.0	15367.9	14666.7
50°	17158.1	17444.9	18162.0	18294.8	18640.1	18863.2	17051.8	16685.3	16791.5	17407.7	16605.6
52.5°	17439.6	17875.2	18592.3	19564.4	20494.0	21025.3	19203.2	18905.7	18900.4	19277.6	18172.7
55°	17933.6	18199.2	18820.7	20159.4	21928.3	22799.5	21795.5	21317.4	20887.1	21152.7	19798.2
57.5°	17885.8	17986.7	18953.5	20605.6	23065.1	24648.1	23925.7	23468.8	22916.4	22762.3	21668.0
60°	17046.5	17285.5	18369.2	20302.8	23766.3	26087.7	25912.4	25444.9	24494.1	24132.8	23102.3
62.5°	15383.8	15702.5	16552.5	19240.4	22746.4	26162.1	27282.9	27107.6	26045.2	25397.1	24972.1
65°	12467.5	12616.2	13593.6	16541.9	20440.9	25020.0	28903.1	28685.3	27707.9	26741.1	25933.6
67.5°	8074.4	8217.8	9158.0	11808.8	16053.1	22071.7	28839.3	29439.6	28382.5	27219.2	25333.4
70°	3814.1	3776.9	4653.4	6560.4	10284.2	16855.3	26889.8	28074.4	27176.7	24674.7	21041.2
72.5°	1163.3	1264.3	1933.6	2905.7	5280.2	10512.6	21078.4	22188.6	21907.1	19713.2	14045.2
75°	515.3	557.8	759.6	1189.9	2140.8	4313.4	13019.9	14008.0	13885.8	11628.2	6411.7
77.5°	329.3	361.2	478.1	679.9	972.1	1370.5	5997.4	6958.8	6746.4	4085.0	1678.6
80°	233.7	249.7	340.0	467.5	610.9	563.1	2066.4	2454.2	2353.3	1110.2	451.5
82.5°	127.5	138.1	249.7	345.3	409.0	286.9	579.0	722.4	754.3	494.0	217.8
85°	47.8	58.4	154.1	244.4	212.5	132.8	170.0	207.2	270.9	270.9	100.9
87.5°	0.0	5.3	63.7	106.2	53.1	37.2	47.8	58.4	74.4	127.5	37.2
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°	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8	4217.8
2.5°	4265.6	4228.4	4244.4	4270.9	4212.5	4244.4	4180.6	4228.4	4244.4	4180.6	4212.5
5°	4318.7	4355.9	4334.7	4292.2	4255.0	4265.6	4249.7	4212.5	4244.4	4255.0	4233.7
7.5°	4472.8	4430.3	4440.9	4393.1	4318.7	4313.4	4212.5	4185.9	4196.6	4207.2	4170.0
10°	4616.2	4642.8	4589.6	4552.5	4430.3	4350.6	4212.5	4063.8	4047.8	3984.1	4037.2
12.5°	4871.2	4807.4	4786.2	4664.0	4541.8	4276.2	3978.8	3750.3	3559.1	3490.0	3421.0
15°	5083.7	5073.0	5035.9	4849.9	4568.4	4085.0	3521.9	2990.7	2624.2	2395.8	2363.9
17.5°	5375.8	5328.0	5259.0	4966.8	4371.9	3585.7	2624.2	1954.8	1588.3	1444.9	1391.8
20°	5598.9	5561.8	5466.1	4940.2	4015.9	2672.0	1625.5	1243.0	1152.7	1126.2	1131.5
22.5°	5923.0	5806.1	5625.5	4807.4	3367.9	1779.6	1168.7	1110.2	1094.3	1073.0	1078.4
25°	6204.5	6098.3	5721.1	4579.0	2401.1	1179.3	1083.7	1051.8	1025.2	998.7	993.4
27.5°	6454.2	6321.4	5822.1	4111.6	1503.3	1014.6	1004.0	966.8	913.7	871.2	855.2
30°	6698.5	6544.5	5848.6	3235.1	1014.6	919.0	892.4	834.0	764.9	706.5	695.9
32.5°	7107.6	6921.7	5811.4	2310.8	876.5	818.1	759.6	690.6	589.6	541.8	531.2
35°	7745.0	7463.5	5763.6	1359.9	786.2	722.4	632.1	541.8	467.5	419.7	409.0
37.5°	8478.1	7989.4	5625.5	908.4	722.4	637.5	520.6	430.3	366.5	329.3	318.7
40°	9567.1	8759.6	5094.3	743.7	642.8	541.8	419.7	340.0	292.2	265.6	255.0
42.5°	10767.6	9641.4	4276.2	669.3	568.4	462.2	334.7	276.2	239.0	212.5	212.5
45°	12207.2	10560.4	3298.8	610.9	504.6	382.5	276.2	223.1	191.2	170.0	159.4
47.5°	13811.4	11394.4	2225.8	552.5	425.0	313.4	228.4	170.0	138.1	122.2	122.2
50°	15245.7	12132.8	1418.3	483.4	371.8	260.3	185.9	138.1	111.6	90.3	85.0
52.5°	16547.2	12695.9	977.4	425.0	318.7	212.5	154.1	111.6	85.0	69.1	69.1
55°	17880.5	12982.8	722.4	366.5	276.2	180.6	127.5	100.9	74.4	58.4	53.1
57.5°	18974.8	13104.9	552.5	318.7	233.7	143.4	111.6	85.0	63.7	47.8	42.5
60°	19909.7	13046.5	430.3	265.6	185.9	122.2	95.6	69.1	53.1	37.2	31.9
62.5°	20456.9	12695.9	340.0	228.4	148.7	106.2	79.7	58.4	37.2	26.6	21.2
65°	20467.5	11952.2	265.6	170.0	111.6	90.3	69.1	47.8	26.6	10.6	5.3
67.5°	19001.4	10342.6	212.5	132.8	90.3	69.1	53.1	37.2	10.6	0.0	0.0
70°	14863.2	7824.7	175.3	106.2	74.4	58.4	37.2	21.2	5.3	0.0	0.0
72.5°	9471.5	4685.3	143.4	85.0	63.7	42.5	26.6	15.9	0.0	0.0	0.0
75°	3962.8	1444.9	111.6	74.4	47.8	31.9	21.2	5.3	0.0	0.0	0.0
77.5°	1019.9	456.8	90.3	63.7	47.8	26.6	15.9	5.3	0.0	0.0	0.0
80°	302.8	170.0	74.4	53.1	37.2	21.2	10.6	5.3	0.0	0.0	0.0
82.5°	138.1	100.9	63.7	47.8	31.9	21.2	10.6	0.0	0.0	0.0	0.0
85°	53.1	31.9	31.9	26.6	26.6	15.9	5.3	0.0	0.0	0.0	0.0
87.5°	21.2	10.6	10.6	10.6	5.3	5.3	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)