

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: P482518

Luminaire Tested: **IFLD-L-SA8D-750-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482518  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-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**

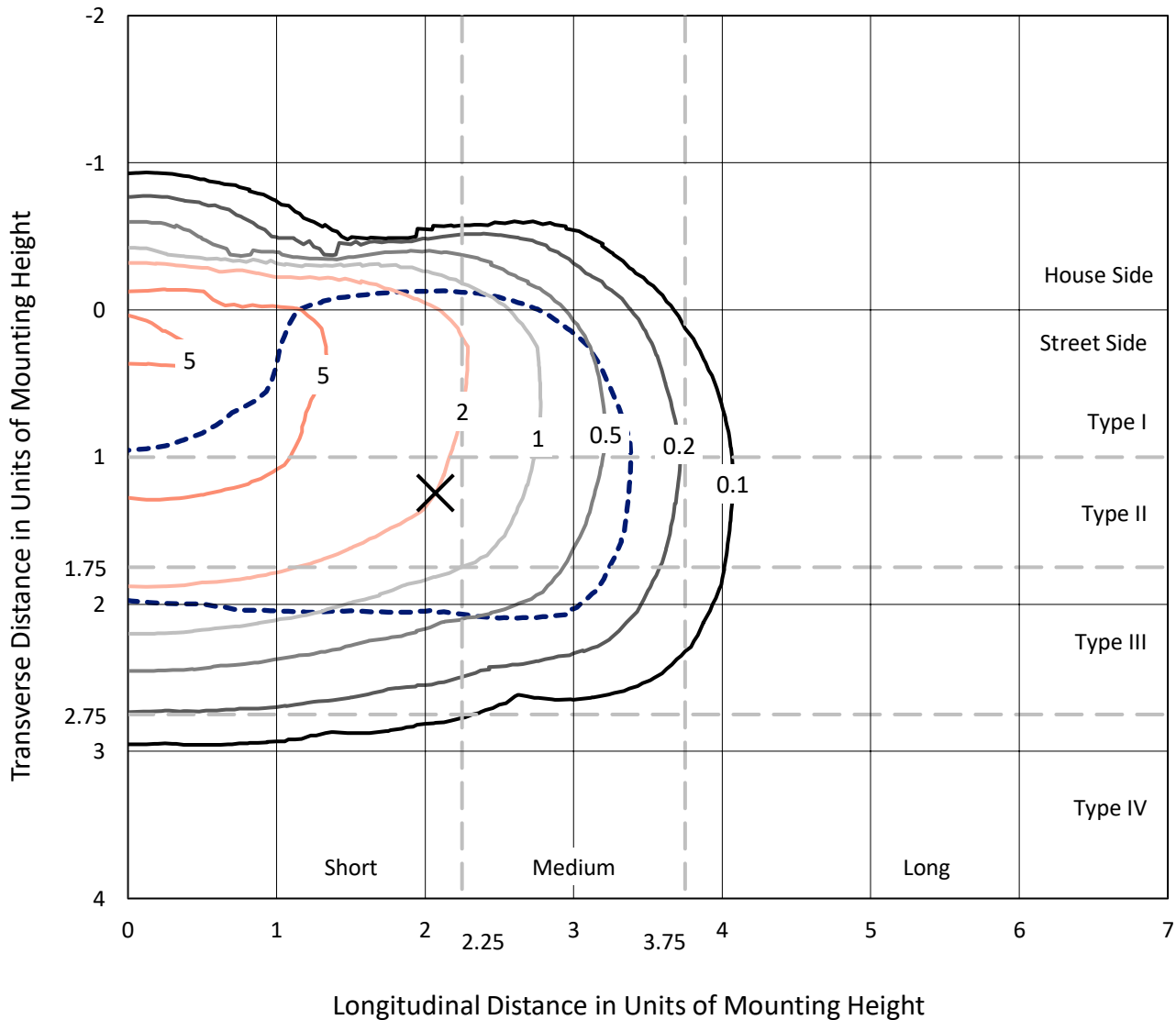
Lumens per Lamp: N/A  
Luminaire Lumens: 42313.4 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

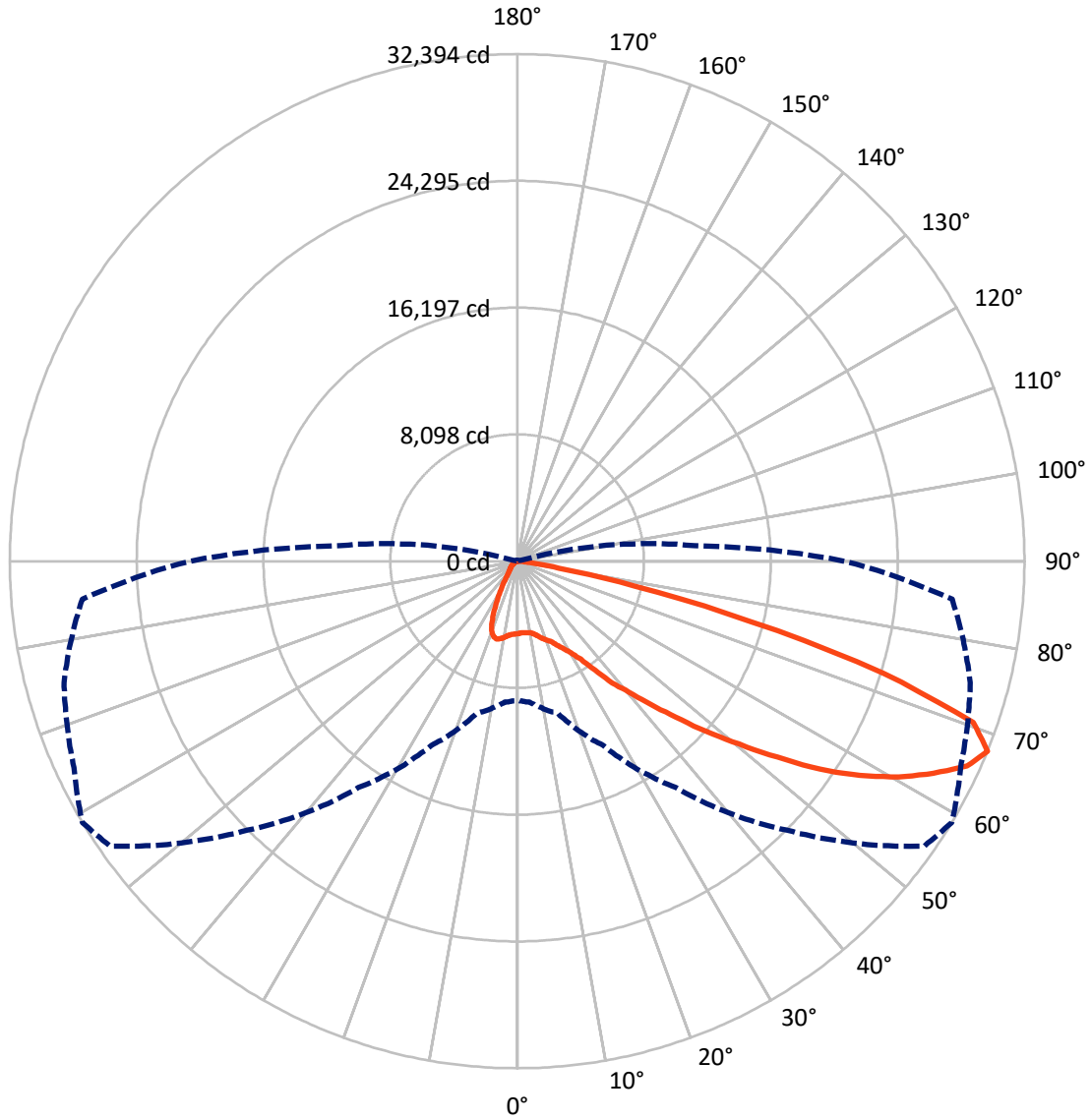
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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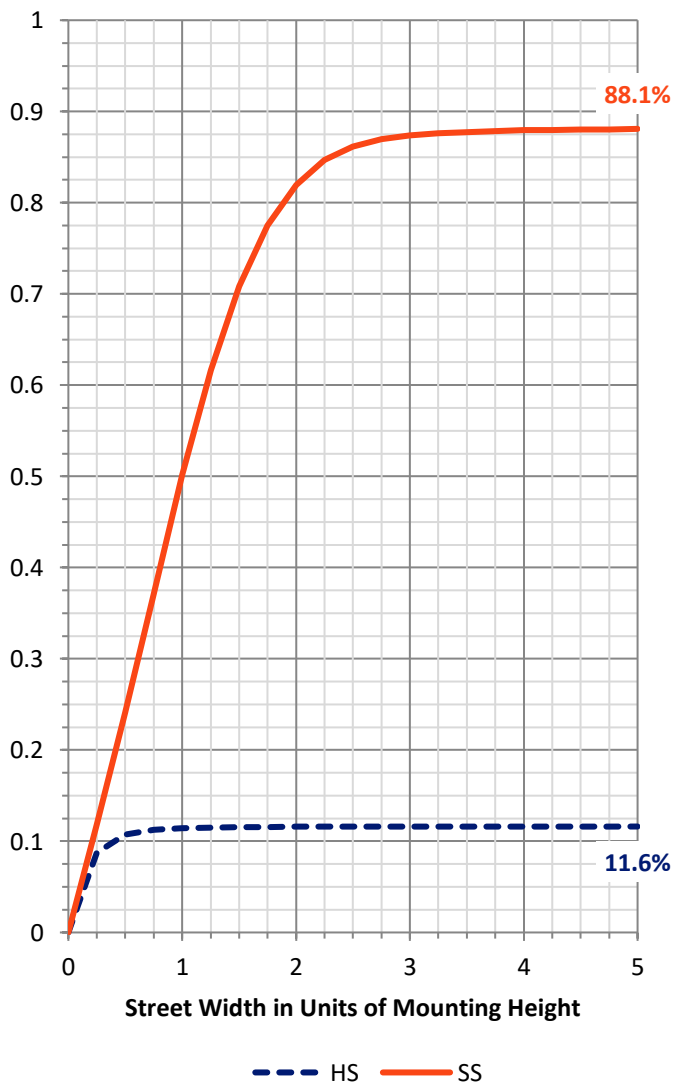
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4970.4	0.0	4970.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	37343.0	0.0	37343.0
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	42313.4	0.0	42313.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.9	1.0
10°-20°	1273.4	3.0
20°-30°	2225.6	5.3
30°-40°	3918.5	9.3
40°-50°	6926.7	16.4
50°-60°	10967.4	25.9
60°-70°	12165.8	28.8
70°-80°	4221.3	10.0
80°-90°	173.8	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°	42313.4	100.0
0°-180°	42313.4	100.0

**Coefficient of Utilization**

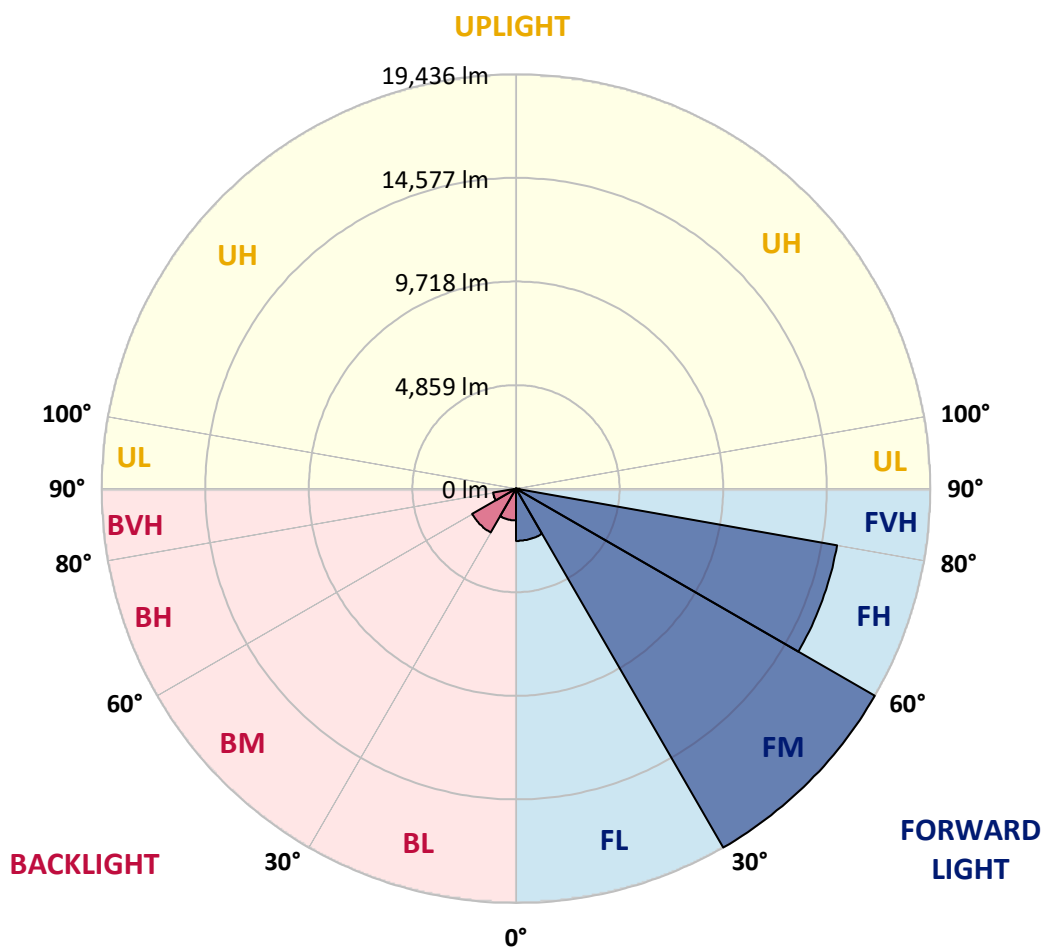


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.3	5.8			
FM (30°-60°)	19436.1	45.9			
FH (60°-80°)	15294.0	36.1			G5
FVH (80°-90°)	162.6	0.4			G2/225
BL (0°-30°)	1489.7	3.5	B3/2500		
BM (30°-60°)	2376.4	5.6	B2/2500		
BH (60°-80°)	1093.1	2.6	B3/2500		G3/2500
BVH (80°-90°)	11.2	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°	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0
2.5°	4506.6	4442.3	4500.7	4506.6	4512.4	4565.0	4623.5	4582.6	4576.7	4623.5	4664.4
5°	4325.4	4296.2	4366.3	4401.4	4459.8	4506.6	4600.1	4605.9	4611.8	4664.4	4734.5
7.5°	4249.4	4179.3	4261.1	4302.0	4342.9	4454.0	4565.0	4623.5	4705.3	4769.6	4839.8
10°	4097.4	4150.0	4173.4	4243.6	4360.5	4489.0	4623.5	4652.7	4833.9	4886.5	5056.0
12.5°	4150.0	4185.1	4231.9	4249.4	4378.0	4570.9	4752.1	4763.8	4950.8	5178.8	5266.4
15°	4284.5	4261.1	4278.6	4302.0	4454.0	4611.8	4904.0	4956.7	5132.0	5389.2	5605.5
17.5°	4570.9	4530.0	4500.7	4494.9	4530.0	4676.1	5021.0	5178.8	5342.4	5693.1	5804.2
20°	5289.8	5254.8	5137.9	4833.9	4728.7	4787.1	5161.2	5383.3	5611.3	6002.9	6184.1
22.5°	6382.9	6417.9	6143.2	5716.5	5278.1	5050.2	5383.3	5576.2	5938.6	6435.5	6599.1
25°	7674.6	7604.5	7271.3	6774.5	6084.8	5547.0	5739.9	5956.2	6400.4	6809.6	6873.9
27.5°	8685.8	8604.0	8346.8	7744.8	7148.6	6277.7	6207.5	6341.9	6868.0	7236.2	7166.1
30°	9685.4	9714.6	9539.2	8826.1	8089.6	7172.0	6727.7	6786.2	7189.5	7662.9	7505.1
32.5°	10959.6	10889.4	10790.1	10164.7	9293.7	8311.7	7551.9	7458.4	7633.7	8259.1	8072.1
35°	12146.1	12105.2	11970.8	11339.5	10579.7	9510.0	8767.7	8557.2	8516.3	9211.9	8884.6
37.5°	13180.7	13110.6	12906.0	12502.7	11766.2	10866.1	10053.6	9866.5	9860.7	10340.0	9708.7
40°	14051.6	14104.3	14080.9	13636.6	13233.3	12514.4	11269.4	10971.3	10947.9	11205.1	10836.8
42.5°	15179.8	15302.5	15238.2	15150.5	14665.4	14384.8	12976.1	12520.2	12315.7	12841.7	12508.5
45°	16886.5	16933.3	16974.2	16757.9	16272.8	16331.2	14741.4	14197.8	14145.2	14928.4	14180.2
47.5°	18482.2	18359.5	18645.9	18657.6	18634.2	18365.3	16646.9	16243.6	16313.7	16909.9	16138.4
50°	18879.7	19195.3	19984.4	20130.6	20510.5	20756.0	18762.8	18359.5	18476.4	19154.4	18271.8
52.5°	19189.5	19668.8	20457.9	21527.5	22550.4	23135.0	21130.1	20802.8	20796.9	21211.9	19996.1
55°	19733.1	20025.4	20709.2	22182.2	24128.6	25087.2	23982.5	23456.4	22983.0	23275.2	21784.7
57.5°	19680.5	19791.5	20855.4	22673.2	25379.5	27121.3	26326.4	25823.7	25215.8	25046.3	23842.2
60°	18757.0	19020.0	20212.4	22340.0	26151.0	28705.3	28512.5	27998.1	26951.8	26554.3	25420.4
62.5°	16927.4	17278.2	18213.4	21171.0	25028.8	28787.2	30020.5	29827.6	28658.6	27945.5	27477.9
65°	13718.5	13882.1	14957.6	18201.7	22492.0	27530.5	31803.3	31563.6	30488.1	29424.3	28535.8
67.5°	8884.6	9042.4	10077.0	12993.7	17663.9	24286.4	31733.1	32393.6	31230.4	29950.4	27875.3
70°	4196.8	4155.9	5120.3	7218.7	11316.1	18546.5	29588.0	30891.4	29903.6	27150.5	23152.5
72.5°	1280.1	1391.1	2127.6	3197.3	5810.0	11567.5	23193.4	24415.0	24105.2	21691.2	15454.5
75°	567.0	613.7	835.9	1309.3	2355.6	4746.2	14326.4	15413.6	15279.1	12795.0	7055.1
77.5°	362.4	397.5	526.1	748.2	1069.7	1508.0	6599.1	7657.1	7423.3	4494.9	1847.1
80°	257.2	274.7	374.1	514.4	672.2	619.6	2273.7	2700.4	2589.4	1221.6	496.8
82.5°	140.3	152.0	274.7	379.9	450.1	315.6	637.1	794.9	830.0	543.6	239.6
85°	52.6	64.3	169.5	268.9	233.8	146.1	187.0	228.0	298.1	298.1	111.1
87.5°	0.0	5.8	70.1	116.9	58.5	40.9	52.6	64.3	81.8	140.3	40.9
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°	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0	4641.0
2.5°	4693.6	4652.7	4670.2	4699.5	4635.2	4670.2	4600.1	4652.7	4670.2	4600.1	4635.2
5°	4752.1	4793.0	4769.6	4722.9	4681.9	4693.6	4676.1	4635.2	4670.2	4681.9	4658.6
7.5°	4921.6	4874.8	4886.5	4833.9	4752.1	4746.2	4635.2	4605.9	4617.6	4629.3	4588.4
10°	5079.4	5108.6	5050.2	5009.3	4874.8	4787.1	4635.2	4471.5	4454.0	4383.8	4442.3
12.5°	5360.0	5289.8	5266.4	5132.0	4997.6	4705.3	4378.0	4126.6	3916.2	3840.2	3764.3
15°	5593.8	5582.1	5541.2	5336.6	5026.8	4494.9	3875.3	3290.8	2887.5	2636.1	2601.1
17.5°	5915.3	5862.6	5786.7	5465.2	4810.5	3945.5	2887.5	2151.0	1747.7	1589.9	1531.4
20°	6160.7	6119.8	6014.6	5436.0	4418.9	2940.1	1788.6	1367.8	1268.4	1239.2	1245.0
22.5°	6517.3	6388.7	6190.0	5289.8	3705.8	1958.1	1285.9	1221.6	1204.1	1180.7	1186.6
25°	6827.1	6710.2	6295.2	5038.5	2642.0	1297.6	1192.4	1157.3	1128.1	1098.9	1093.0
27.5°	7101.8	6955.7	6406.2	4524.1	1654.2	1116.4	1104.7	1063.8	1005.4	958.6	941.1
30°	7370.7	7201.2	6435.5	3559.7	1116.4	1011.2	982.0	917.7	841.7	777.4	765.7
32.5°	7820.8	7616.2	6394.6	2542.6	964.4	900.1	835.9	759.9	648.8	596.2	584.5
35°	8522.2	8212.4	6341.9	1496.3	865.1	794.9	695.6	596.2	514.4	461.8	450.1
37.5°	9328.8	8791.0	6190.0	999.5	794.9	701.4	572.8	473.5	403.3	362.4	350.7
40°	10527.0	9638.6	5605.5	818.3	707.3	596.2	461.8	374.1	321.5	292.3	280.6
42.5°	11848.0	10608.9	4705.3	736.5	625.4	508.5	368.2	303.9	263.0	233.8	233.8
45°	13432.1	11620.1	3629.8	672.2	555.3	420.8	303.9	245.5	210.4	187.0	175.4
47.5°	15197.3	12537.8	2449.1	607.9	467.6	344.9	251.3	187.0	152.0	134.4	134.4
50°	16775.5	13350.2	1560.6	531.9	409.2	286.4	204.6	152.0	122.7	99.4	93.5
52.5°	18207.5	13969.8	1075.5	467.6	350.7	233.8	169.5	122.7	93.5	76.0	76.0
55°	19674.6	14285.5	794.9	403.3	303.9	198.7	140.3	111.1	81.8	64.3	58.5
57.5°	20878.7	14419.9	607.9	350.7	257.2	157.8	122.7	93.5	70.1	52.6	46.8
60°	21907.5	14355.6	473.5	292.3	204.6	134.4	105.2	76.0	58.5	40.9	35.1
62.5°	22509.5	13969.8	374.1	251.3	163.7	116.9	87.7	64.3	40.9	29.2	23.4
65°	22521.2	13151.5	292.3	187.0	122.7	99.4	76.0	52.6	29.2	11.7	5.8
67.5°	20908.0	11380.4	233.8	146.1	99.4	76.0	58.5	40.9	11.7	0.0	0.0
70°	16354.6	8609.9	192.9	116.9	81.8	64.3	40.9	23.4	5.8	0.0	0.0
72.5°	10421.8	5155.4	157.8	93.5	70.1	46.8	29.2	17.5	0.0	0.0	0.0
75°	4360.5	1589.9	122.7	81.8	52.6	35.1	23.4	5.8	0.0	0.0	0.0
77.5°	1122.3	502.7	99.4	70.1	52.6	29.2	17.5	5.8	0.0	0.0	0.0
80°	333.2	187.0	81.8	58.5	40.9	23.4	11.7	5.8	0.0	0.0	0.0
82.5°	152.0	111.1	70.1	52.6	35.1	23.4	11.7	0.0	0.0	0.0	0.0
85°	58.5	35.1	35.1	29.2	29.2	17.5	5.8	0.0	0.0	0.0	0.0
87.5°	23.4	11.7	11.7	11.7	5.8	5.8	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)