

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: P484840

Luminaire Tested: **IFLD-S-SA6A-750-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484840  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-750-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

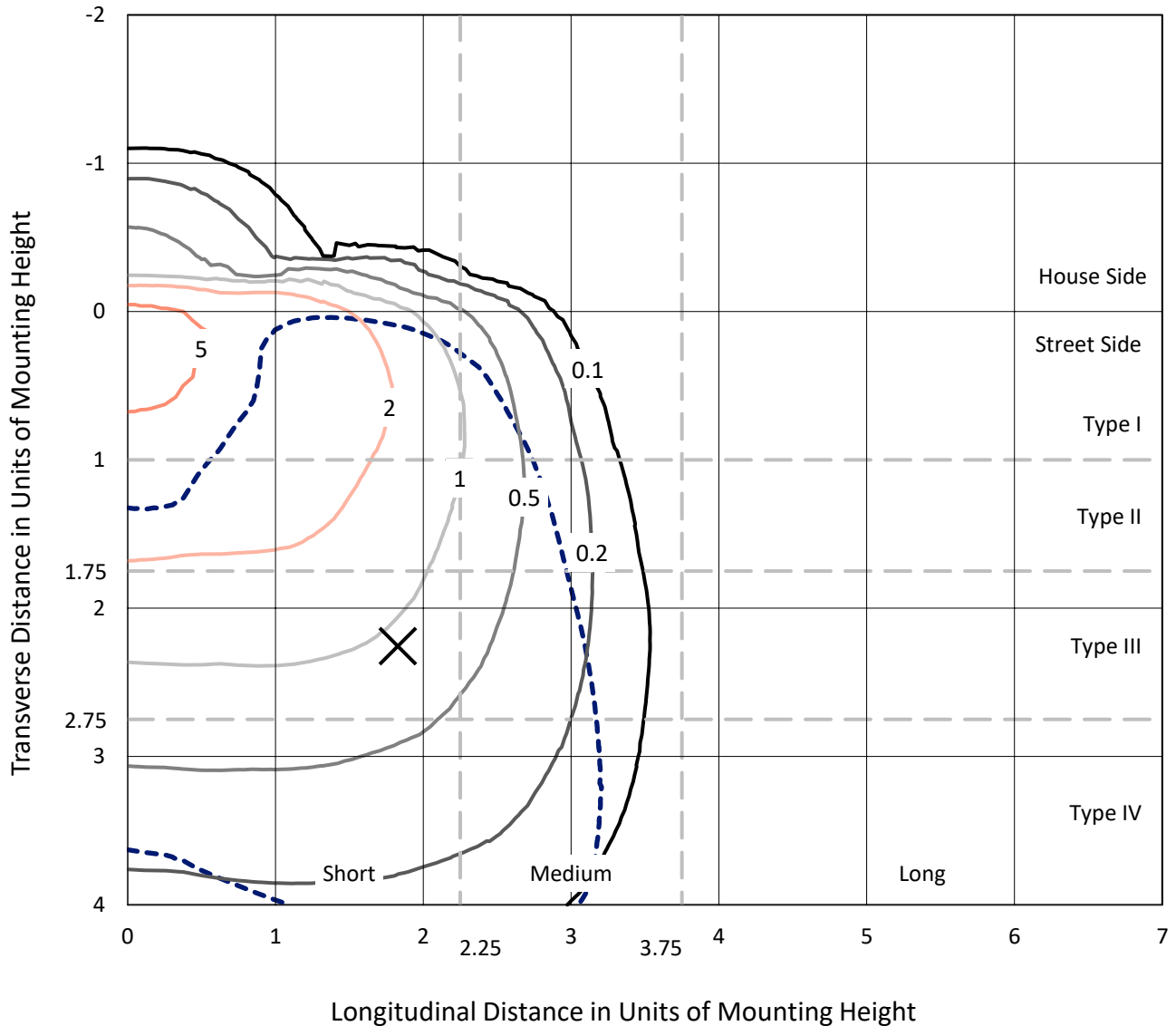
Lumens per Lamp: N/A  
Luminaire Lumens: 22807.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6  
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

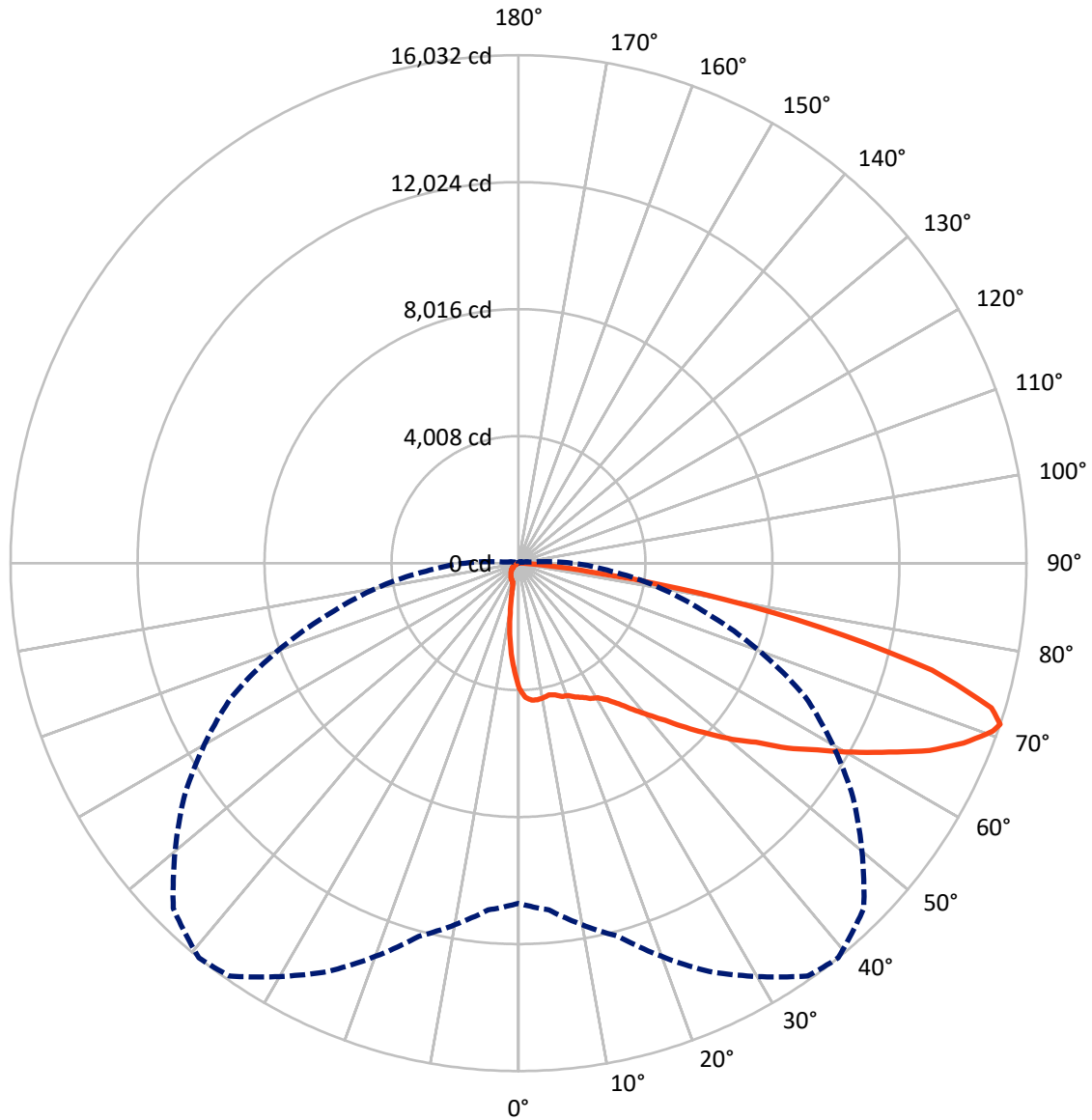
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1717.1	0.0	1717.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	21090.4	0.0	21090.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	22807.5	0.0	22807.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.9	1.5
10°-20°	816.9	3.6
20°-30°	1311.4	5.7
30°-40°	2007.5	8.8
40°-50°	3222.4	14.1
50°-60°	4733.1	20.8
60°-70°	5961.2	26.1
70°-80°	3978.4	17.4
80°-90°	444.6	1.9
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°	22807.5	100.0
0°-180°	22807.5	100.0



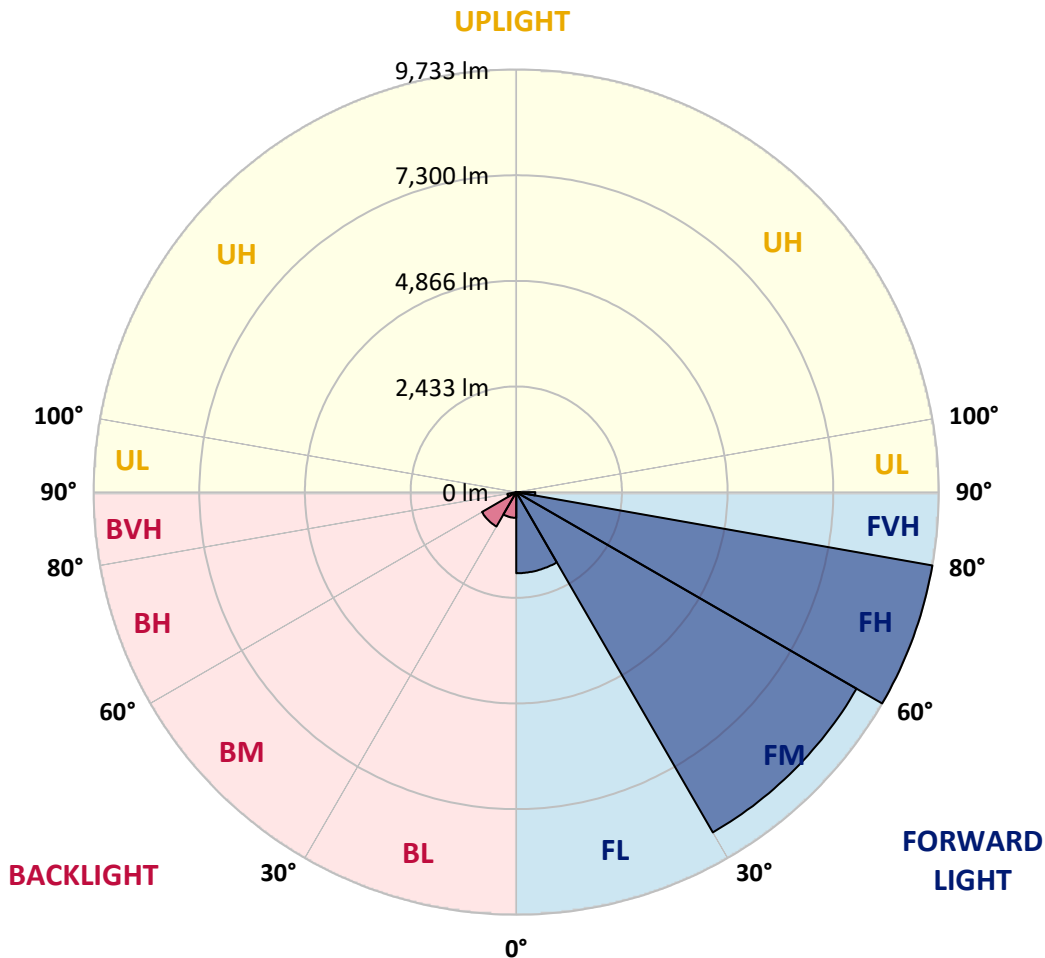
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.4	8.2			
FM (30°-60°)	9050.3	39.7			
FH (60°-80°)	9732.9	42.7			G4/12000
FVH (80°-90°)	439.7	1.9			G3/500
BL (0°-30°)	592.8	2.6	B2/1000		
BM (30°-60°)	912.7	4.0	B1/1000		
BH (60°-80°)	206.7	0.9	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8
2.5°	4277.9	4319.8	4277.9	4260.0	4242.0	4245.0	4197.1	4206.1	4149.3	4074.5	4014.7
5°	4412.5	4469.4	4424.5	4403.6	4400.6	4343.7	4319.8	4263.0	4194.2	4077.5	4005.7
7.5°	4400.6	4388.6	4409.5	4391.6	4352.7	4352.7	4325.8	4245.0	4176.2	4044.6	3921.9
10°	4310.8	4346.7	4328.8	4307.8	4316.8	4319.8	4268.9	4212.1	4191.2	4059.5	3859.1
12.5°	4301.8	4242.0	4307.8	4310.8	4271.9	4268.9	4263.0	4248.0	4182.2	4062.5	3874.1
15°	4271.9	4248.0	4313.8	4316.8	4325.8	4316.8	4325.8	4313.8	4248.0	4179.2	3939.9
17.5°	4295.9	4268.9	4361.7	4406.5	4385.6	4427.5	4412.5	4358.7	4301.8	4221.1	4002.7
20°	4301.8	4340.7	4442.4	4460.4	4526.2	4457.4	4454.4	4397.6	4361.7	4274.9	4041.6
22.5°	4412.5	4430.5	4556.1	4595.0	4598.0	4589.0	4514.2	4448.4	4433.5	4325.8	4050.6
25°	4580.1	4642.9	4699.7	4723.7	4732.6	4690.7	4613.0	4529.2	4493.3	4424.5	4143.3
27.5°	4876.2	4837.3	4888.2	4924.1	4822.4	4837.3	4738.6	4666.8	4616.0	4556.1	4251.0
30°	5139.5	5103.6	5106.6	5100.6	5013.8	4933.1	4906.1	4780.5	4717.7	4741.6	4418.5
32.5°	5375.8	5298.0	5363.8	5333.9	5172.4	5148.5	5127.5	4969.0	4980.9	5091.6	4669.8
35°	5594.2	5567.3	5621.1	5567.3	5459.6	5453.6	5432.7	5295.0	5360.9	5519.4	5100.6
37.5°	5794.6	5803.6	5869.4	5842.5	5851.5	5857.5	5845.5	5698.9	5887.4	6243.4	5603.2
40°	5980.1	5968.1	6129.7	6213.4	6231.4	6297.2	6297.2	6261.3	6551.5	6952.4	6300.2
42.5°	6177.5	6207.5	6416.9	6557.5	6728.0	6784.8	6862.6	6880.6	7329.3	7787.0	7012.2
45°	6500.6	6449.8	6716.0	7048.1	7197.7	7398.1	7517.8	7619.5	8160.9	8789.2	7724.2
47.5°	6910.5	6808.8	7042.1	7523.7	7870.8	8035.3	8250.7	8385.3	8914.8	9564.0	8397.3
50°	7365.2	7260.5	7374.2	8038.3	8442.1	8741.3	9016.5	9187.0	9827.2	10431.5	8887.9
52.5°	7879.7	7784.0	7802.0	8573.8	9169.1	9387.5	9749.5	10003.7	10640.9	10955.0	9061.4
55°	8427.2	8403.3	8346.4	9097.3	9806.3	10296.9	10515.3	10820.4	11475.6	11239.2	9249.9
57.5°	8977.6	8902.8	8983.6	9791.3	10829.4	11122.6	11424.7	11607.2	11939.3	11487.5	9178.1
60°	9495.2	9501.2	9614.8	10545.2	11699.9	12115.8	12388.0	12277.3	12414.9	11595.2	9013.5
62.5°	9931.9	9920.0	10207.2	11391.8	12851.7	13132.9	13336.3	12842.7	12636.3	11699.9	8726.3
65°	10323.8	10458.5	10910.2	12400.0	13934.6	14257.7	14135.1	13378.2	12851.7	11391.8	7918.6
67.5°	10620.0	10820.4	11604.2	13348.3	14927.8	15155.2	14984.7	13785.1	12597.4	10183.2	6449.8
70°	10793.5	10996.9	12100.8	14138.1	15720.6	15885.1	15484.3	13470.9	11113.6	7374.2	4023.6
71°	10739.7	10988.0	12196.5	14221.8	15909.1	16031.7	15409.5	12890.6	9994.8	6174.6	2934.7
72.5°	10252.0	10485.4	11798.7	14162.0	15681.7	15606.9	14826.1	11496.5	7867.8	3936.9	1516.7
75°	7532.7	7784.0	10126.4	12250.4	13997.5	13482.9	11999.1	8068.2	4104.4	1205.6	442.7
77.5°	3751.4	3793.3	6285.2	8893.9	10267.0	9755.4	8041.3	4499.3	1534.7	356.0	221.4
80°	1729.1	1741.1	2357.3	4607.0	6207.5	5842.5	4505.3	2219.7	694.0	188.5	173.5
82.5°	1178.7	1196.6	1421.0	1908.6	2695.4	2273.6	1824.8	1421.0	397.9	113.7	170.5
85°	215.4	197.4	795.8	1011.1	1041.1	706.0	631.2	1229.5	149.6	65.8	149.6
87.5°	0.0	3.0	110.7	412.8	371.0	164.5	215.4	299.2	15.0	20.9	26.9
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°	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8	3969.8
2.5°	3963.8	3930.9	3820.2	3697.6	3586.9	3500.1	3389.4	3338.6	3257.8	3212.9	3209.9
5°	3907.0	3817.2	3625.8	3419.3	3189.0	2997.5	2785.1	2665.5	2527.9	2486.0	2477.0
7.5°	3811.2	3682.6	3401.4	3111.2	2758.2	2420.2	2159.9	1881.7	1711.2	1639.4	1612.4
10°	3751.4	3595.8	3212.9	2779.1	2285.5	1809.9	1444.9	1148.8	993.2	918.4	900.5
12.5°	3751.4	3583.9	3060.4	2462.0	1806.9	1238.5	894.5	724.0	673.1	655.1	655.1
15°	3742.4	3559.9	2913.8	2136.0	1337.2	831.7	667.1	631.2	625.2	622.2	619.3
17.5°	3787.3	3518.1	2764.2	1786.0	945.3	655.1	613.3	607.3	601.3	601.3	595.3
20°	3820.2	3494.1	2584.7	1415.0	706.0	607.3	589.3	580.4	577.4	574.4	580.4
22.5°	3793.3	3458.2	2363.3	1059.0	616.3	577.4	565.4	556.4	550.4	550.4	553.4
25°	3844.1	3425.3	2141.9	798.7	577.4	550.4	538.5	532.5	529.5	526.5	520.5
27.5°	3912.9	3440.3	1878.7	643.2	544.5	523.5	511.6	505.6	502.6	496.6	502.6
30°	3996.7	3437.3	1588.5	562.4	514.5	493.6	481.6	478.6	472.7	469.7	472.7
32.5°	4140.3	3515.1	1289.4	520.5	481.6	463.7	451.7	448.7	445.7	442.7	439.8
35°	4448.4	3610.8	1008.2	487.6	451.7	430.8	421.8	415.8	412.8	409.8	406.9
37.5°	4828.4	3823.2	768.8	457.7	421.8	400.9	391.9	388.9	376.9	373.9	371.0
40°	5304.0	4050.6	592.3	424.8	394.9	373.9	365.0	356.0	341.0	335.1	329.1
42.5°	5896.3	4271.9	487.6	394.9	365.0	350.0	335.1	320.1	308.1	296.2	290.2
45°	6488.7	4529.2	427.8	368.0	341.0	323.1	311.1	290.2	269.2	251.3	248.3
47.5°	6982.3	4621.9	391.9	338.0	317.1	302.1	284.2	257.3	227.4	209.4	206.4
50°	7350.2	4568.1	356.0	308.1	290.2	275.2	251.3	218.4	188.5	170.5	164.5
52.5°	7422.0	4331.8	323.1	284.2	263.3	245.3	218.4	182.5	149.6	131.6	128.6
55°	7371.2	3939.9	296.2	263.3	239.3	212.4	182.5	146.6	116.7	98.7	95.7
57.5°	7266.5	3476.2	266.2	236.3	209.4	182.5	149.6	119.7	86.8	68.8	68.8
60°	6910.5	2845.0	236.3	206.4	179.5	155.6	122.7	86.8	59.8	44.9	41.9
62.5°	6413.9	2186.8	206.4	176.5	155.6	128.6	95.7	62.8	35.9	23.9	23.9
65°	5507.4	1531.7	173.5	146.6	128.6	104.7	71.8	38.9	20.9	9.0	9.0
67.5°	4185.2	948.3	143.6	122.7	110.7	83.8	50.9	23.9	9.0	3.0	0.0
70°	2402.2	493.6	113.7	98.7	86.8	62.8	35.9	12.0	6.0	0.0	0.0
71°	1678.3	365.0	101.7	86.8	77.8	56.8	29.9	9.0	3.0	0.0	0.0
72.5°	840.6	242.3	86.8	71.8	62.8	44.9	23.9	9.0	3.0	0.0	0.0
75°	299.2	155.6	59.8	47.9	44.9	32.9	15.0	6.0	3.0	0.0	0.0
77.5°	206.4	125.6	41.9	29.9	29.9	20.9	9.0	3.0	3.0	0.0	0.0
80°	188.5	68.8	26.9	17.9	15.0	12.0	6.0	3.0	0.0	0.0	0.0
82.5°	188.5	50.9	15.0	12.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0
85°	131.6	26.9	9.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	9.0	6.0	3.0	3.0	0.0	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)