

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: P484730

Luminaire Tested: **IFLD-M-SA4C-730-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484730  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-730-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

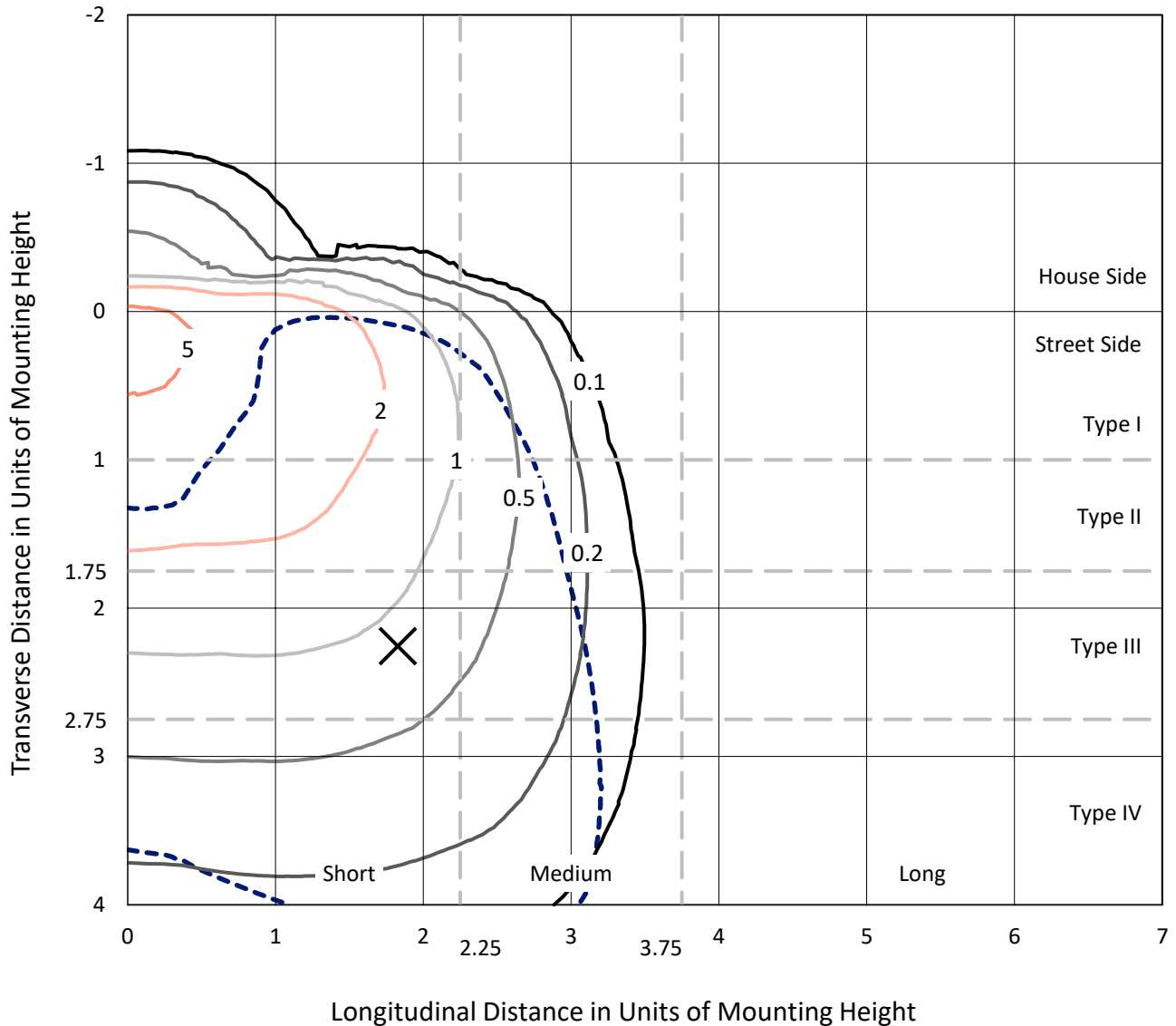
Lumens per Lamp: N/A  
Luminaire Lumens: 21388.1 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1  
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

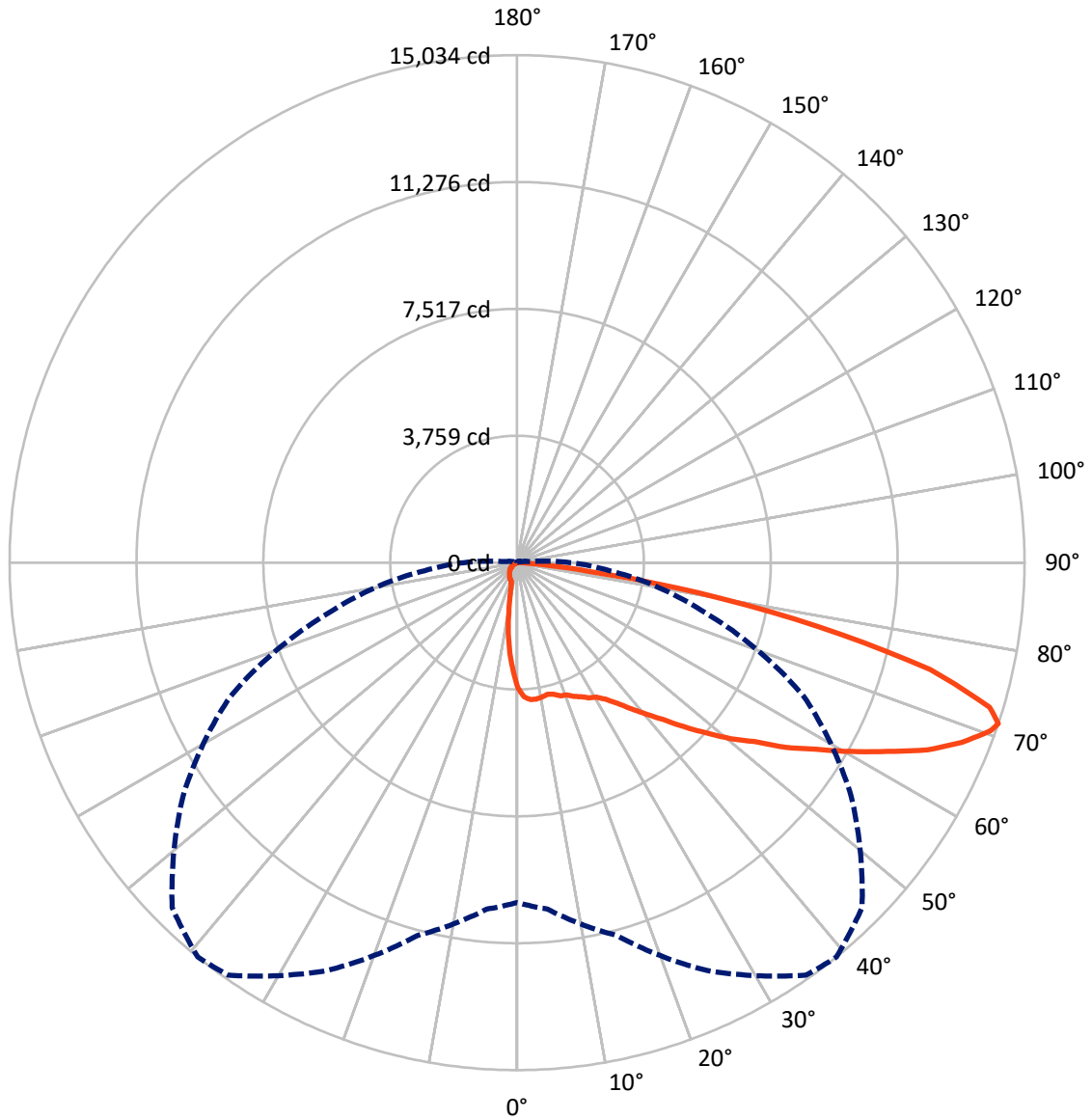
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1610.2	0.0	1610.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	19777.9	0.0	19777.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	21388.1	0.0	21388.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.3	1.5
10°-20°	766.1	3.6
20°-30°	1229.8	5.8
30°-40°	1882.6	8.8
40°-50°	3021.8	14.1
50°-60°	4438.6	20.8
60°-70°	5590.2	26.1
70°-80°	3730.8	17.4
80°-90°	416.9	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°	21388.1	100.0
0°-180°	21388.1	100.0



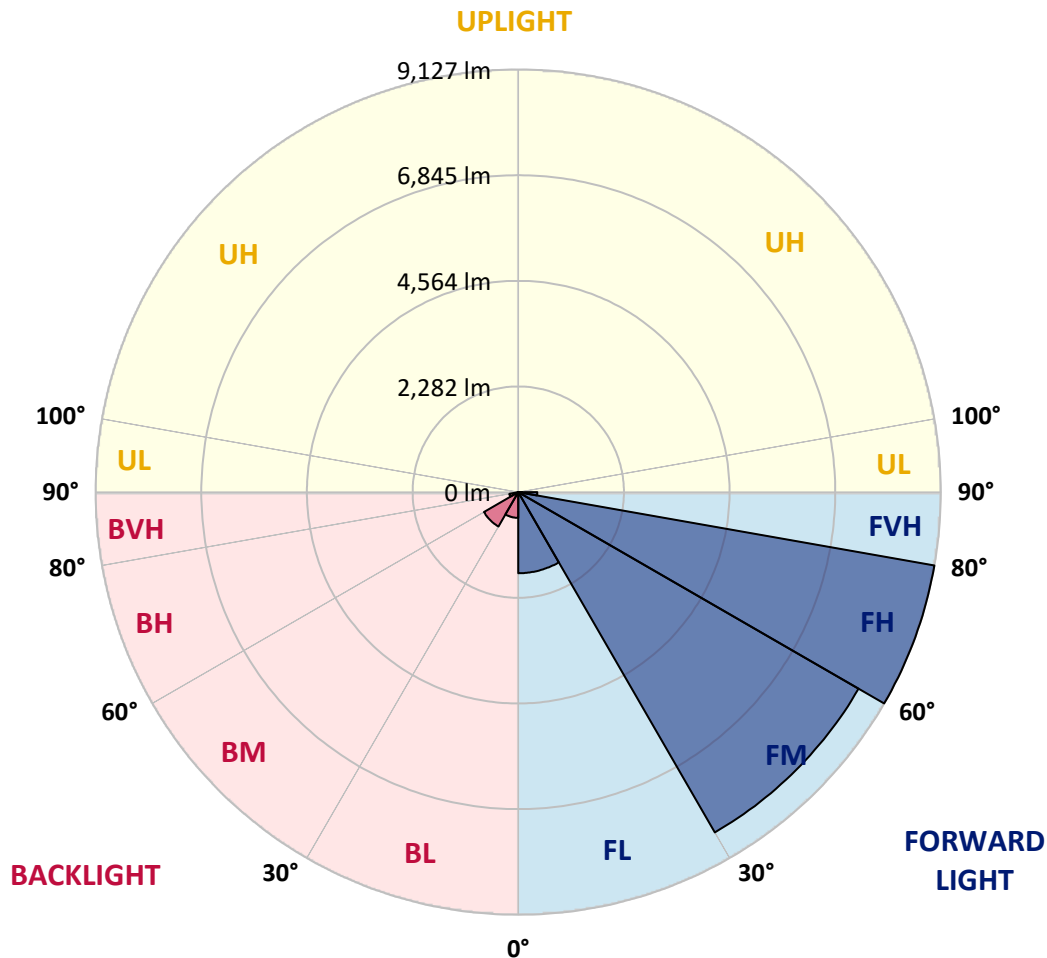
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.2	8.2			
FM (30°-60°)	8487.1	39.7			
FH (60°-80°)	9127.2	42.7			G4/12000
FVH (80°-90°)	412.3	1.9			G3/500
BL (0°-30°)	555.9	2.6	B2/1000		
BM (30°-60°)	855.9	4.0	B1/1000		
BH (60°-80°)	193.8	0.9	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7
2.5°	4011.7	4051.0	4011.7	3994.9	3978.0	3980.8	3935.9	3944.4	3891.1	3820.9	3764.8
5°	4137.9	4191.2	4149.2	4129.5	4126.7	4073.4	4051.0	3997.7	3933.1	3823.7	3756.4
7.5°	4126.7	4115.5	4135.1	4118.3	4081.8	4081.8	4056.6	3980.8	3916.3	3792.9	3677.8
10°	4042.5	4076.2	4059.4	4039.7	4048.2	4051.0	4003.3	3950.0	3930.3	3806.9	3618.9
12.5°	4034.1	3978.0	4039.7	4042.5	4006.1	4003.3	3997.7	3983.6	3921.9	3809.7	3633.0
15°	4006.1	3983.6	4045.4	4048.2	4056.6	4048.2	4056.6	4045.4	3983.6	3919.1	3694.7
17.5°	4028.5	4003.3	4090.2	4132.3	4112.7	4152.0	4137.9	4087.4	4034.1	3958.4	3753.6
20°	4034.1	4070.6	4166.0	4182.8	4244.5	4180.0	4177.2	4123.9	4090.2	4008.9	3790.1
22.5°	4137.9	4154.8	4272.6	4309.1	4311.9	4303.4	4233.3	4171.6	4157.6	4056.6	3798.5
25°	4295.0	4353.9	4407.2	4429.7	4438.1	4398.8	4325.9	4247.3	4213.7	4149.2	3885.4
27.5°	4572.8	4536.3	4584.0	4617.6	4522.3	4536.3	4443.7	4376.4	4328.7	4272.6	3986.4
30°	4819.6	4786.0	4788.8	4783.2	4701.8	4626.1	4600.8	4483.0	4424.1	4446.5	4143.5
32.5°	5041.3	4968.3	5030.0	5002.0	4850.5	4828.1	4808.4	4659.7	4671.0	4774.7	4379.2
35°	5246.1	5220.8	5271.3	5220.8	5119.8	5114.2	5094.6	4965.5	5027.2	5175.9	4783.2
37.5°	5434.0	5442.4	5504.1	5478.9	5487.3	5492.9	5481.7	5344.2	5521.0	5854.8	5254.5
40°	5607.9	5596.7	5748.2	5826.8	5843.6	5905.3	5905.3	5871.7	6143.8	6519.7	5908.1
42.5°	5793.1	5821.2	6017.5	6149.4	6309.3	6362.6	6435.5	6452.4	6873.2	7302.4	6575.8
45°	6096.1	6048.4	6298.1	6609.5	6749.7	6937.7	7049.9	7145.3	7653.1	8242.2	7243.5
47.5°	6480.4	6385.0	6603.9	7055.5	7380.9	7535.2	7737.2	7863.5	8360.0	8968.8	7874.7
50°	6906.8	6808.6	6915.3	7538.0	7916.8	8197.3	8455.4	8615.3	9215.7	9782.3	8334.8
52.5°	7389.4	7299.6	7316.4	8040.2	8598.5	8803.3	9142.7	9381.2	9978.7	10273.3	8497.5
55°	7902.7	7880.3	7827.0	8531.1	9196.0	9656.1	9860.9	10147.0	10761.4	10539.8	8674.2
57.5°	8418.9	8348.8	8424.5	9182.0	10155.5	10430.4	10713.7	10884.9	11196.3	10772.6	8606.9
60°	8904.3	8909.9	9016.5	9888.9	10971.8	11361.8	11617.1	11513.3	11642.3	10873.6	8452.6
62.5°	9313.8	9302.6	9571.9	10682.9	12051.9	12315.6	12506.4	12043.5	11849.9	10971.8	8183.3
65°	9681.4	9807.6	10231.2	11628.3	13067.4	13370.4	13255.4	12545.6	12051.9	10682.9	7425.8
67.5°	9959.1	10147.0	10882.1	12517.6	13998.8	14212.0	14052.1	12927.2	11813.4	9549.5	6048.4
70°	10121.8	10312.6	11347.7	13258.2	14742.2	14896.5	14520.6	12632.6	10422.0	6915.3	3773.2
71°	10071.3	10304.1	11437.5	13336.8	14919.0	15034.0	14450.5	12088.4	9372.8	5790.3	2752.1
72.5°	9614.0	9832.8	11064.4	13280.6	14705.8	14635.6	13903.4	10781.1	7378.1	3691.9	1422.3
75°	7063.9	7299.6	9496.2	11488.0	13126.4	12643.8	11252.4	7566.1	3849.0	1130.6	415.2
77.5°	3517.9	3557.2	5894.1	8340.4	9628.0	9148.3	7540.8	4219.3	1439.2	333.8	207.6
80°	1621.5	1632.7	2210.6	4320.3	5821.2	5478.9	4224.9	2081.6	650.8	176.7	162.7
82.5°	1105.3	1122.2	1332.6	1789.8	2527.6	2132.1	1711.3	1332.6	373.1	106.6	159.9
85°	202.0	185.2	746.2	948.2	976.3	662.1	591.9	1153.0	140.3	61.7	140.3
87.5°	0.0	2.8	103.8	387.1	347.9	154.3	202.0	280.5	14.0	19.6	25.2
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°	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7	3722.7
2.5°	3717.1	3686.3	3582.5	3467.4	3363.6	3282.3	3178.5	3130.8	3055.1	3013.0	3010.2
5°	3663.8	3579.7	3400.1	3206.5	2990.5	2811.0	2611.8	2499.6	2370.5	2331.3	2322.9
7.5°	3574.0	3453.4	3189.7	2917.6	2586.6	2269.5	2025.5	1764.6	1604.7	1537.3	1512.1
10°	3517.9	3372.1	3013.0	2606.2	2143.3	1697.3	1355.0	1077.3	931.4	861.3	844.4
12.5°	3517.9	3360.8	2869.9	2308.8	1694.4	1161.4	838.8	678.9	631.2	614.4	614.4
15°	3509.5	3338.4	2732.4	2003.0	1254.0	779.9	625.6	591.9	586.3	583.5	580.7
17.5°	3551.6	3299.1	2592.2	1674.8	886.5	614.4	575.1	569.5	563.9	563.9	558.3
20°	3582.5	3276.7	2423.8	1326.9	662.1	569.5	552.7	544.2	541.4	538.6	544.2
22.5°	3557.2	3243.0	2216.2	993.1	577.9	541.4	530.2	521.8	516.2	516.2	519.0
25°	3604.9	3212.2	2008.6	749.0	541.4	516.2	505.0	499.4	496.6	493.7	488.1
27.5°	3669.4	3226.2	1761.8	603.2	510.6	490.9	479.7	474.1	471.3	465.7	471.3
30°	3748.0	3223.4	1489.7	527.4	482.5	462.9	451.7	448.9	443.2	440.4	443.2
32.5°	3882.6	3296.3	1209.1	488.1	451.7	434.8	423.6	420.8	418.0	415.2	412.4
35°	4171.6	3386.1	945.4	457.3	423.6	404.0	395.6	389.9	387.1	384.3	381.5
37.5°	4527.9	3585.3	721.0	429.2	395.6	375.9	367.5	364.7	353.5	350.7	347.9
40°	4973.9	3798.5	555.5	398.4	370.3	350.7	342.3	333.8	319.8	314.2	308.6
42.5°	5529.4	4006.1	457.3	370.3	342.3	328.2	314.2	300.2	289.0	277.7	272.1
45°	6084.9	4247.3	401.2	345.1	319.8	303.0	291.8	272.1	252.5	235.7	232.8
47.5°	6547.7	4334.3	367.5	317.0	297.4	283.3	266.5	241.3	213.2	196.4	193.6
50°	6892.8	4283.8	333.8	289.0	272.1	258.1	235.7	204.8	176.7	159.9	154.3
52.5°	6960.1	4062.2	303.0	266.5	246.9	230.0	204.8	171.1	140.3	123.4	120.6
55°	6912.4	3694.7	277.7	246.9	224.4	199.2	171.1	137.5	109.4	92.6	89.8
57.5°	6814.3	3259.8	249.7	221.6	196.4	171.1	140.3	112.2	81.4	64.5	64.5
60°	6480.4	2667.9	221.6	193.6	168.3	145.9	115.0	81.4	56.1	42.1	39.3
62.5°	6014.7	2050.7	193.6	165.5	145.9	120.6	89.8	58.9	33.7	22.4	22.4
65°	5164.7	1436.4	162.7	137.5	120.6	98.2	67.3	36.5	19.6	8.4	8.4
67.5°	3924.7	889.3	134.7	115.0	103.8	78.6	47.7	22.4	8.4	2.8	0.0
70°	2252.7	462.9	106.6	92.6	81.4	58.9	33.7	11.2	5.6	0.0	0.0
71°	1573.8	342.3	95.4	81.4	72.9	53.3	28.1	8.4	2.8	0.0	0.0
72.5°	788.3	227.2	81.4	67.3	58.9	42.1	22.4	8.4	2.8	0.0	0.0
75°	280.5	145.9	56.1	44.9	42.1	30.9	14.0	5.6	2.8	0.0	0.0
77.5°	193.6	117.8	39.3	28.1	28.1	19.6	8.4	2.8	2.8	0.0	0.0
80°	176.7	64.5	25.2	16.8	14.0	11.2	5.6	2.8	0.0	0.0	0.0
82.5°	176.7	47.7	14.0	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
85°	123.4	25.2	8.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	19.6	8.4	5.6	2.8	2.8	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)