

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: P484282

Luminaire Tested: **IFLD-S-SA3D-727-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484282  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

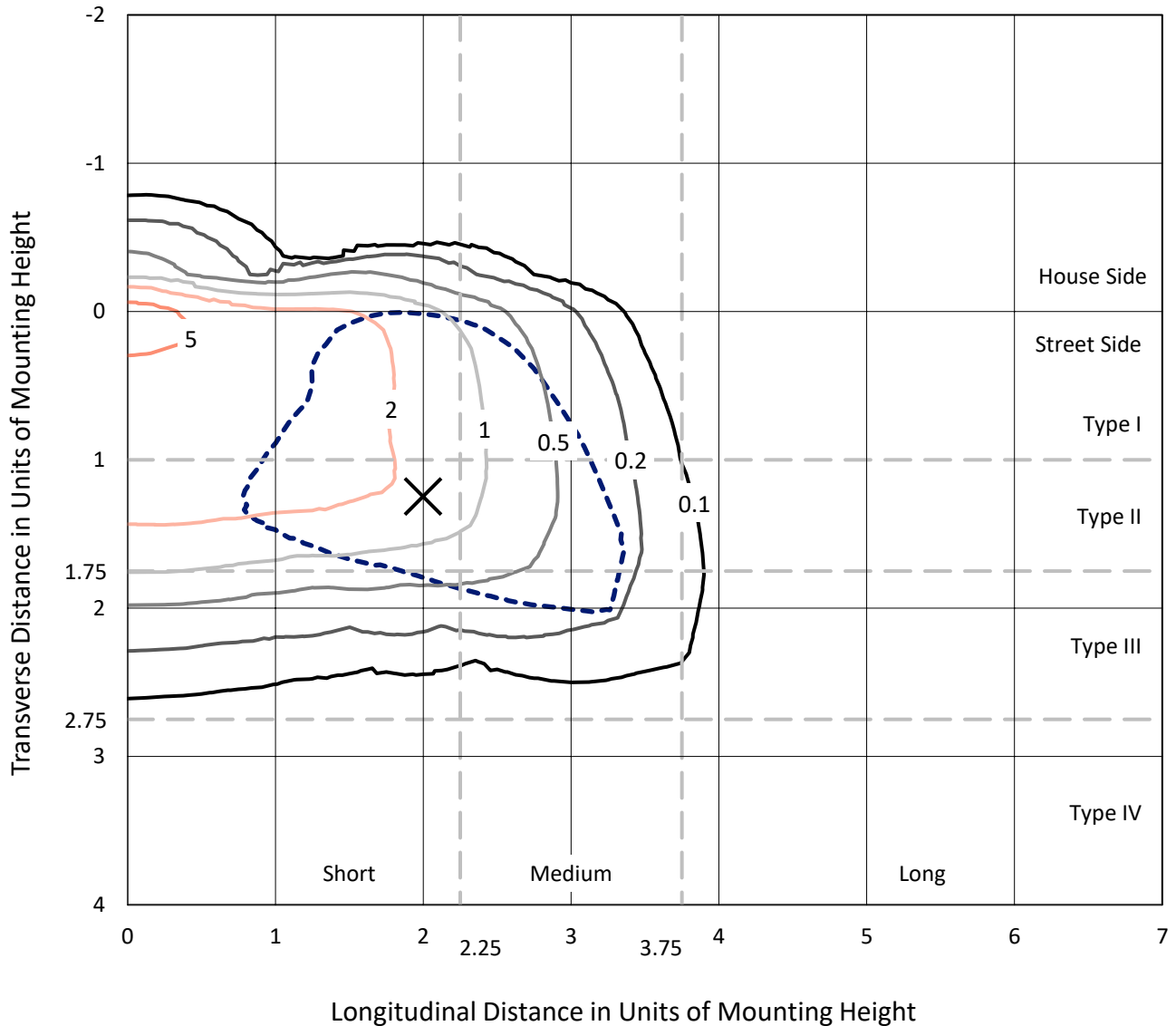
Lumens per Lamp: N/A  
Luminaire Lumens: 16300.8 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1  
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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 CATALOG NUMBER: IFLD-S-SA3D-727-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

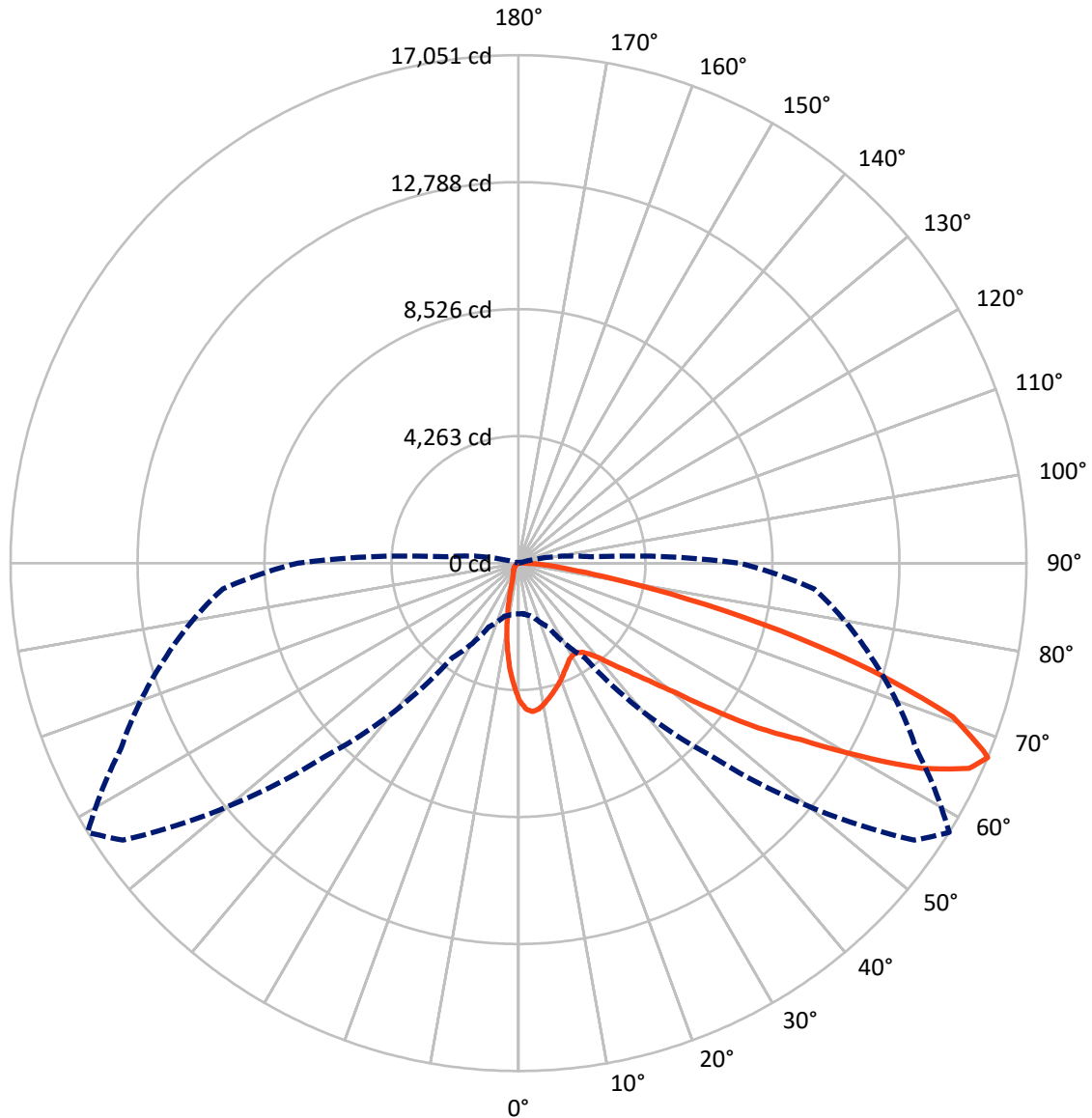
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P484282  
CATALOG NUMBER: IFLD-S-SA3D-727-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1347.4	0.0	1347.4
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	14953.4	0.0	14953.4
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	16300.8	0.0	16300.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.4	2.2
10°-20°	760.1	4.7
20°-30°	1008.4	6.2
30°-40°	1397.4	8.6
40°-50°	2280.1	14.0
50°-60°	4007.7	24.6
60°-70°	4438.8	27.2
70°-80°	1839.4	11.3
80°-90°	202.5	1.2
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°	16300.8	100.0
0°-180°	16300.8	100.0

**Coefficient of Utilization**



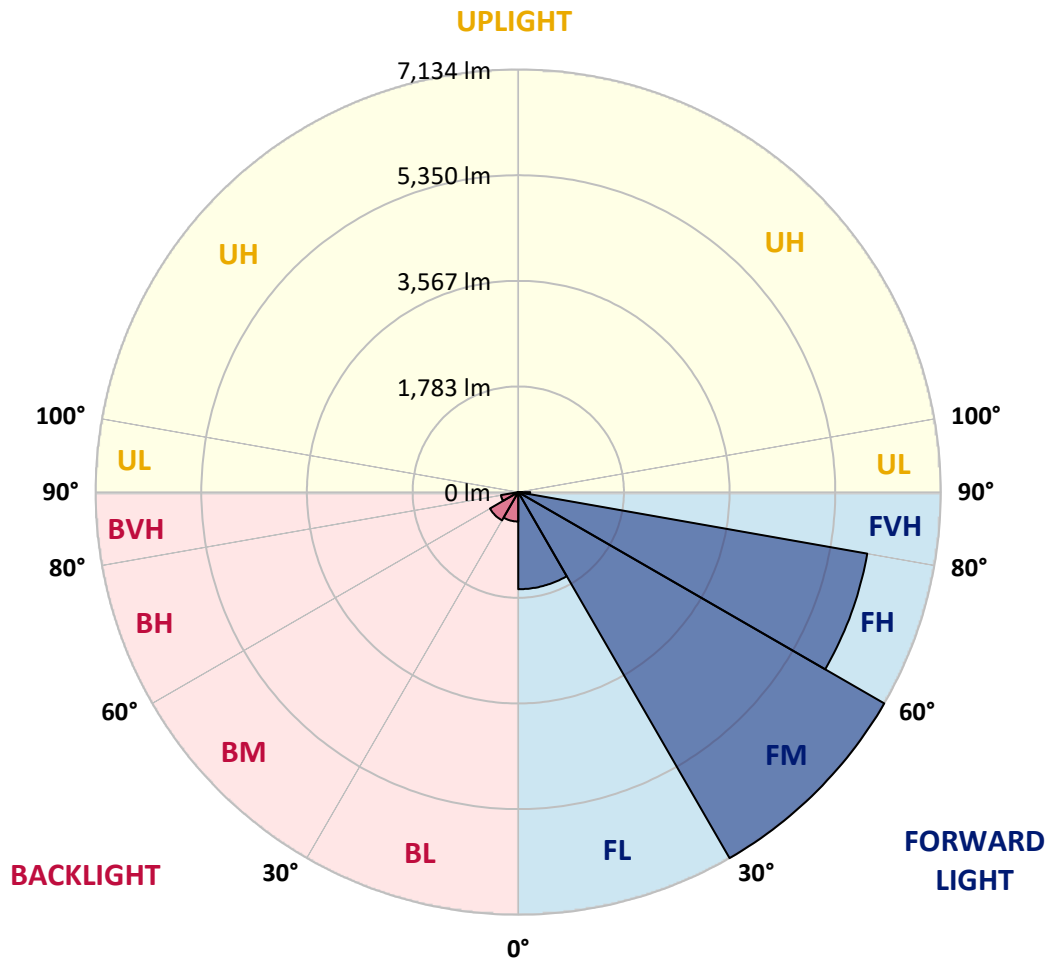
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1638.7	10.1			
FM (30°-60°)	7133.6	43.8			
FH (60°-80°)	5982.0	36.7			G3/7500
FVH (80°-90°)	199.2	1.2			G2/225
BL (0°-30°)	496.2	3.0	B1/500		
BM (30°-60°)	551.6	3.4	B1/1000		
BH (60°-80°)	296.2	1.8	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





REPORT NUMBER: P484282

CATALOG NUMBER: IFLD-S-SA3D-727-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2
2.5°	5025.1	5042.4	5057.5	5029.4	5053.2	5018.6	4929.9	4910.4	4895.2	4763.2	4687.5
5°	5022.9	5003.4	5018.6	5031.6	4999.1	5025.1	5003.4	5005.6	4947.2	4828.2	4616.1
7.5°	4687.5	4678.8	4687.5	4750.2	4821.7	4877.9	4910.4	4942.9	4903.9	4726.4	4520.8
10°	4235.2	4278.5	4302.3	4414.8	4525.2	4629.1	4730.8	4791.4	4780.5	4709.1	4417.0
12.5°	3919.2	3906.2	3992.8	4066.4	4176.8	4386.7	4564.1	4620.4	4685.3	4585.8	4280.6
15°	3627.1	3592.4	3644.4	3772.1	3960.3	4127.0	4375.9	4460.3	4542.5	4568.5	4207.0
17.5°	3347.9	3365.2	3419.3	3534.0	3711.5	3945.2	4178.9	4300.1	4497.0	4462.4	4096.7
20°	3213.7	3250.5	3270.0	3328.4	3451.8	3685.5	4033.9	4131.3	4341.2	4460.3	3988.5
22.5°	3220.2	3220.2	3174.8	3209.4	3321.9	3503.7	3837.0	3945.2	4278.5	4347.7	3891.1
25°	3289.5	3246.2	3248.3	3207.2	3254.8	3354.4	3659.5	3791.5	4150.8	4358.5	3839.1
27.5°	3341.4	3332.7	3319.8	3308.9	3248.3	3263.5	3542.7	3650.9	4101.0	4345.6	3759.1
30°	3529.7	3490.7	3477.7	3453.9	3373.9	3300.3	3449.6	3585.9	4062.1	4375.9	3713.6
32.5°	3687.7	3694.2	3705.0	3635.7	3566.5	3384.7	3475.6	3583.8	4033.9	4445.1	3759.1
35°	3886.8	3914.9	3919.2	3897.6	3824.0	3644.4	3583.8	3676.8	4081.5	4568.5	3763.4
37.5°	4189.7	4159.4	4241.7	4250.3	4198.4	3960.3	3834.8	3871.6	4222.2	4765.4	3927.9
40°	4386.7	4423.5	4577.1	4672.3	4583.6	4367.2	4198.4	4191.9	4425.6	5074.9	4131.3
42.5°	4605.2	4687.5	4856.3	5061.9	5051.1	4849.8	4678.8	4650.7	4787.0	5522.8	4453.8
45°	4903.9	4977.5	5213.4	5522.8	5691.6	5520.7	5263.1	5206.9	5226.3	6133.1	5003.4
47.5°	5399.5	5380.0	5719.8	6024.9	6301.9	6169.9	6059.5	5895.1	5879.9	6851.6	5763.1
50°	5960.0	5955.7	6258.6	6604.9	6925.2	7182.7	6998.8	6819.1	6823.5	7827.6	6656.8
52.5°	6492.4	6576.8	6903.5	7247.6	7797.3	8074.3	8251.8	8180.4	7836.3	8699.8	7613.4
55°	6773.7	6847.3	7171.9	7764.9	8632.7	9344.7	9825.1	9764.5	9100.1	9682.3	8556.9
57.5°	6507.5	6557.3	6996.6	7773.5	9217.0	10805.5	11266.4	11190.7	10407.3	10433.2	9697.4
60°	5393.0	5470.9	6124.5	7035.6	8989.8	11930.8	13250.9	13136.2	11597.5	11383.3	10431.1
62.5°	3735.3	3787.2	4323.9	5457.9	7912.0	12322.5	15125.0	15187.8	12852.7	12123.4	10649.6
65°	2419.5	2415.2	2722.5	3490.7	5607.2	11136.6	16233.1	16622.6	14064.6	12235.9	10582.5
67°	1709.7	1703.2	1848.2	2367.5	3882.4	9175.9	16213.6	17051.1	14722.5	12268.4	9961.4
67.5°	1577.6	1571.2	1709.7	2177.1	3503.7	8533.1	15971.2	16830.4	14954.1	12222.9	9688.8
70°	1224.9	1207.6	1259.5	1499.7	2040.8	5518.5	13668.6	15460.5	14473.6	11089.0	7736.7
72.5°	885.1	904.6	986.8	1231.4	1601.4	2969.2	10418.1	12502.1	12088.8	8357.8	4916.9
75°	616.8	634.1	766.1	1004.2	1469.4	1800.5	7044.2	9067.7	8420.6	4613.9	2094.9
77.5°	322.5	344.1	489.1	802.9	1335.3	1393.7	4209.2	5750.1	4462.4	1642.6	577.8
80°	149.3	160.1	244.5	569.2	1116.7	1224.9	2454.1	3198.6	1785.4	367.9	199.1
82.5°	64.9	71.4	112.5	326.8	792.1	1071.2	1519.2	1677.2	647.1	119.0	123.4
85°	13.0	15.1	43.3	173.1	383.0	649.2	1066.9	995.5	324.6	58.4	97.4
87.5°	0.0	0.0	10.8	49.8	103.9	192.6	452.3	452.3	99.5	30.3	36.8
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°	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2	4618.2
2.5°	4620.4	4542.5	4371.5	4213.5	4101.0	3973.3	3804.5	3728.8	3700.6	3661.7	3603.3
5°	4499.2	4404.0	4111.8	3817.5	3495.1	3250.5	2990.8	2839.3	2724.6	2653.2	2629.4
7.5°	4328.2	4133.5	3739.6	3267.8	2850.1	2486.6	2092.7	1826.5	1655.6	1586.3	1521.4
10°	4191.9	3938.7	3339.2	2752.8	2196.6	1664.2	1220.6	986.8	809.4	742.3	733.6
12.5°	4014.4	3711.5	2964.8	2226.9	1527.9	991.2	675.2	586.5	536.7	528.0	521.6
15°	3867.3	3505.9	2609.9	1724.8	989.0	618.9	525.9	504.2	491.3	486.9	489.1
17.5°	3767.7	3285.1	2246.4	1255.2	651.4	506.4	484.8	471.8	465.3	463.1	456.6
20°	3570.8	3099.0	1887.1	878.6	508.6	467.4	450.1	439.3	432.8	430.7	428.5
22.5°	3458.3	2863.1	1527.9	612.4	452.3	424.2	411.2	402.5	391.7	385.2	383.0
25°	3345.7	2690.0	1207.6	476.1	411.2	391.7	372.2	361.4	344.1	335.4	333.3
27.5°	3213.7	2519.0	930.6	413.3	370.1	350.6	331.1	313.8	292.2	283.5	279.2
30°	3138.0	2352.4	701.2	370.1	339.8	313.8	290.0	268.4	244.5	229.4	225.1
32.5°	3099.0	2200.9	525.9	337.6	307.3	279.2	248.9	222.9	201.3	188.3	186.1
35°	3051.4	2053.7	413.3	307.3	277.0	246.7	216.4	190.4	168.8	158.0	153.7
37.5°	3101.2	1967.2	344.1	283.5	253.2	218.6	186.1	160.1	142.8	132.0	129.8
40°	3237.5	1895.8	298.6	261.9	229.4	192.6	162.3	136.3	121.2	112.5	108.2
42.5°	3447.4	1895.8	270.5	240.2	207.8	168.8	138.5	119.0	103.9	95.2	93.1
45°	3828.3	1954.2	246.7	218.6	181.8	145.0	119.0	99.5	84.4	75.7	73.6
47.5°	4362.9	2088.4	227.2	199.1	162.3	127.7	103.9	84.4	69.3	60.6	58.4
50°	5081.4	2393.5	207.8	175.3	145.0	110.4	86.6	67.1	54.1	45.4	43.3
52.5°	5977.3	2826.3	188.3	162.3	123.4	93.1	69.3	54.1	41.1	34.6	32.5
55°	6925.2	3356.6	164.5	145.0	106.0	77.9	56.3	41.1	30.3	26.0	23.8
57.5°	7879.6	3765.6	145.0	125.5	86.6	62.8	45.4	32.5	21.6	17.3	15.1
60°	8386.0	3804.5	125.5	103.9	69.3	49.8	34.6	23.8	15.1	10.8	8.7
62.5°	8463.9	3458.3	108.2	84.4	56.3	39.0	23.8	17.3	8.7	4.3	4.3
65°	8063.5	2882.6	93.1	67.1	43.3	28.1	17.3	10.8	4.3	2.2	0.0
67°	7414.3	2415.2	80.1	56.3	34.6	21.6	13.0	6.5	2.2	0.0	0.0
67.5°	7163.2	2285.3	75.7	51.9	32.5	19.5	10.8	6.5	2.2	0.0	0.0
70°	5559.6	1631.7	56.3	36.8	23.8	15.1	8.7	4.3	0.0	0.0	0.0
72.5°	3406.3	954.4	43.3	26.0	17.3	10.8	6.5	2.2	0.0	0.0	0.0
75°	1428.3	328.9	36.8	19.5	13.0	6.5	4.3	2.2	0.0	0.0	0.0
77.5°	372.2	123.4	26.0	13.0	8.7	6.5	4.3	2.2	0.0	0.0	0.0
80°	151.5	56.3	17.3	8.7	8.7	6.5	4.3	2.2	0.0	0.0	0.0
82.5°	99.5	26.0	10.8	8.7	6.5	4.3	2.2	0.0	0.0	0.0	0.0
85°	75.7	15.1	6.5	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	32.5	8.7	6.5	4.3	4.3	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)