

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: P636657

Luminaire Tested: **IFLD-S-SA3C-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636657
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12186.9 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

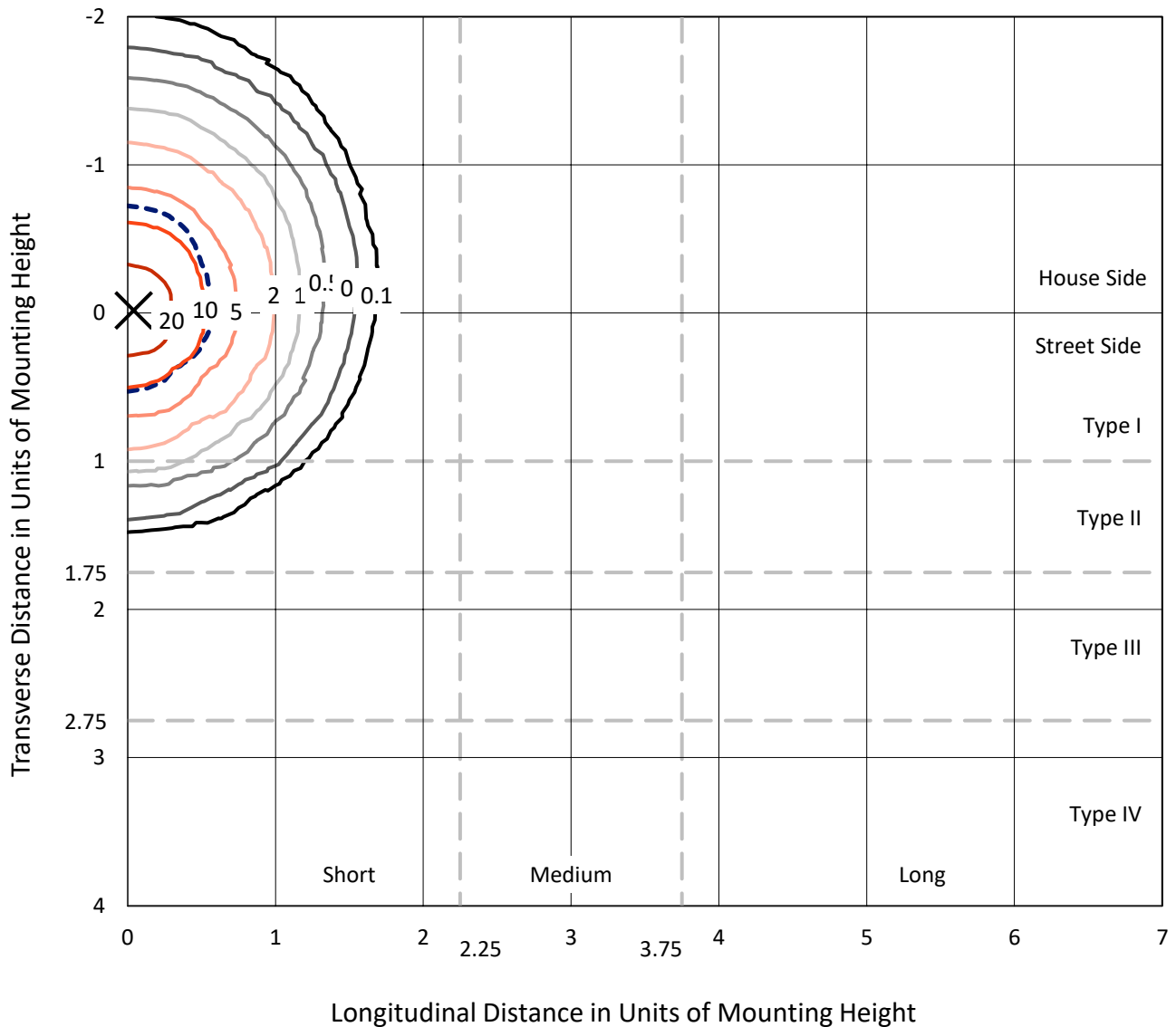
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

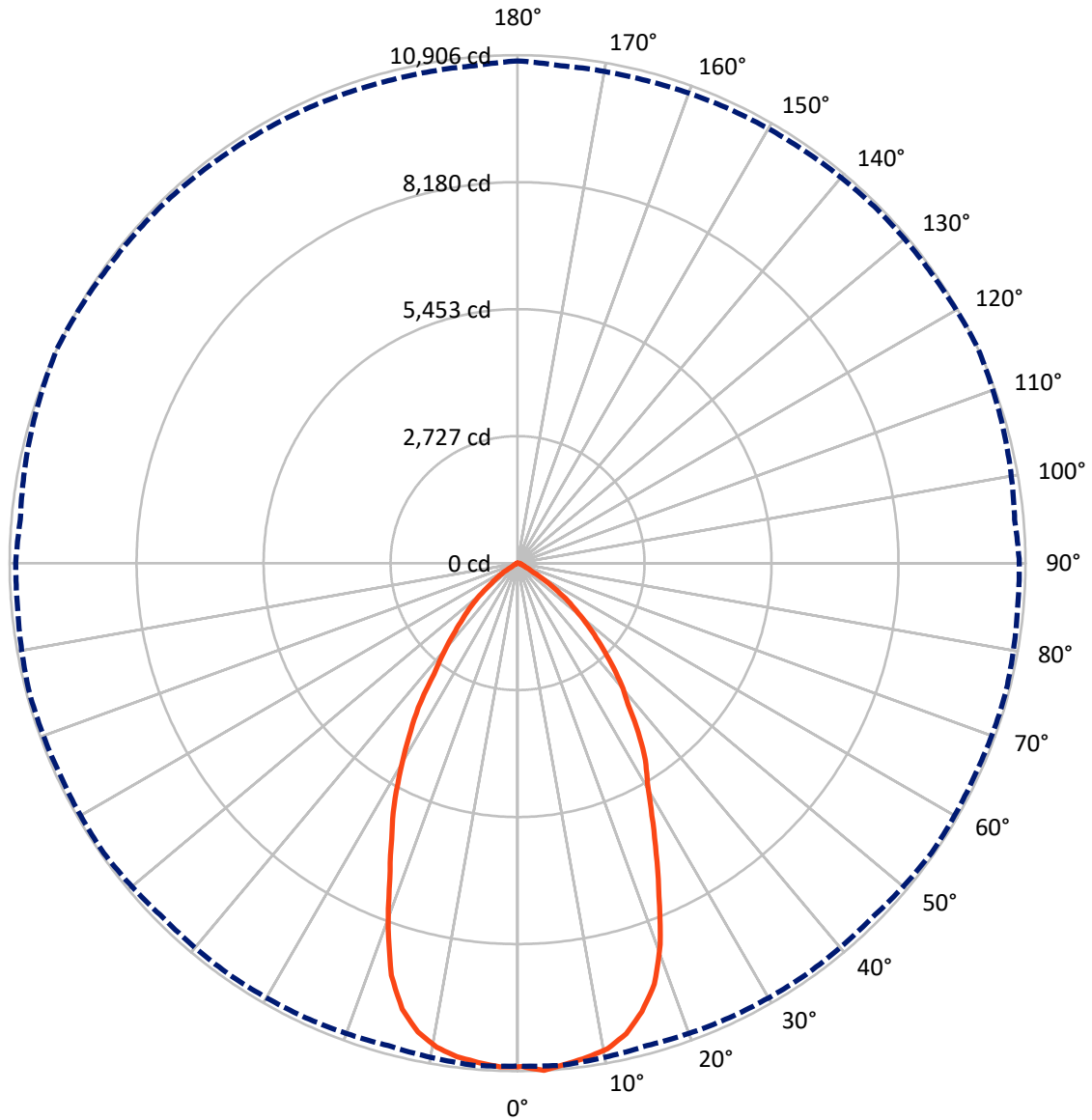
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6974.4	0.0	6974.4
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	5212.5	0.0	5212.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	12186.9	0.0	12186.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1018.4	8.4
10°-20°	2700.4	22.2
20°-30°	3088.7	25.3
30°-40°	2646.9	21.7
40°-50°	1750.2	14.4
50°-60°	763.7	6.3
60°-70°	150.1	1.2
70°-80°	54.1	0.4
80°-90°	14.4	0.1
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°	12186.9	100.0
0°-180°	12186.9	100.0



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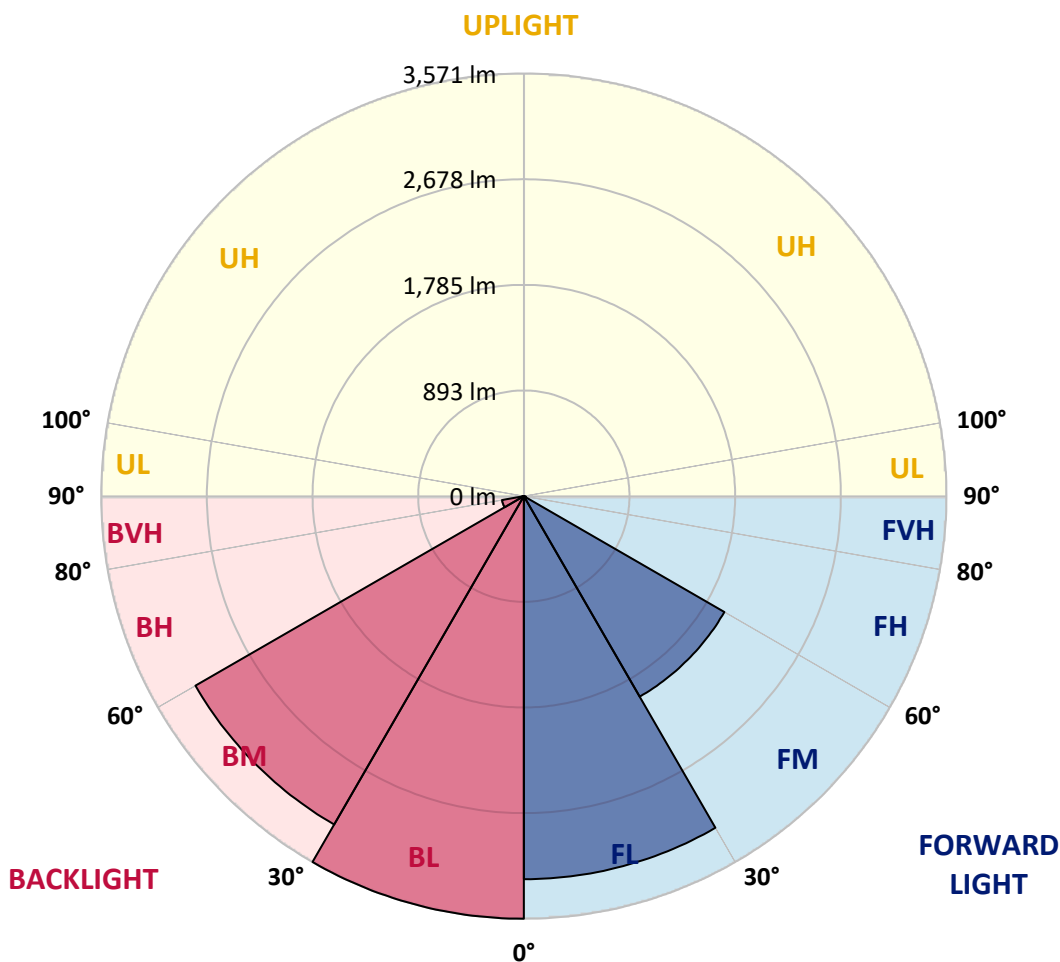
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3236.6	26.6			
FM	(30°-60°)	1956.9	16.1			
FH	(60°-80°)	16.6	0.1			G0/660
FVH	(80°-90°)	2.4	0.0			G0/10
BL	(0°-30°)	3570.9	29.3	B4/5000		
BM	(30°-60°)	3203.9	26.3	B3/5000		
BH	(60°-80°)	187.6	1.5	B1/500		G1/500
BVH	(80°-90°)	12.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8
2.5°	10797.3	10823.2	10724.7	10768.8	10786.9	10763.6	10849.1	10823.2	10843.9	10779.1
5°	10797.3	10823.2	10709.2	10729.9	10735.1	10691.1	10784.3	10753.2	10755.8	10688.5
7.5°	10729.9	10761.0	10657.4	10672.9	10675.5	10639.3	10719.6	10675.5	10660.0	10590.0
10°	10548.6	10566.7	10473.5	10512.3	10548.6	10514.9	10584.9	10535.6	10535.6	10473.5
12.5°	10261.0	10294.7	10191.1	10237.7	10268.8	10230.0	10310.3	10292.1	10294.7	10232.5
15°	9737.8	9621.2	9745.5	9838.8	9841.4	9833.6	9908.7	9890.6	9903.6	9810.3
17.5°	7193.9	7165.4	7310.4	8411.4	9230.0	9341.4	9354.4	9255.9	9211.9	9121.2
20°	6665.4	6686.1	6655.0	6660.2	7305.3	8644.6	8564.3	8320.7	8209.4	8118.7
22.5°	6279.4	6245.7	6225.0	6212.1	6230.2	7103.2	7680.9	7313.0	7253.5	7209.4
25°	5859.8	5844.2	5818.3	5813.1	5802.8	5655.1	6486.7	6520.3	6424.5	6370.1
27.5°	5468.6	5458.2	5429.7	5427.1	5308.0	4950.5	5041.1	5841.6	5815.7	5795.0
30°	5051.5	5030.8	5015.2	5015.2	4655.2	4287.3	4139.6	5093.0	5093.0	5074.8
32.5°	4598.2	4580.0	4585.2	4523.0	4093.0	3756.3	3523.1	4396.1	4668.1	4652.6
35°	2810.7	2805.5	3331.4	4023.1	3517.9	3212.2	3196.7	3761.4	4157.8	4199.2
37.5°	2502.4	2486.9	2494.7	2538.7	3012.8	2891.0	2885.8	2981.7	3538.6	3559.4
40°	2246.0	2235.6	2227.8	2069.8	1919.6	2580.2	2562.0	2499.9	3023.1	3059.4
42.5°	2002.5	1992.1	1992.1	1769.3	1525.8	2121.6	2129.4	2056.9	2549.1	2562.0
45°	1751.2	1743.4	1699.4	1411.8	1341.9	1409.2	1764.1	1681.2	2023.2	2157.9
47.5°	826.4	821.2	1189.0	1173.5	1168.3	1126.9	1347.1	1393.7	1606.1	1740.8
50°	663.2	658.0	626.9	551.8	961.1	854.9	971.4	1072.5	1139.8	1264.2
52.5°	549.2	544.0	479.2	424.8	533.6	624.3	580.3	717.6	715.0	849.7
55°	360.1	334.2	367.9	347.1	279.8	453.3	443.0	544.0	531.1	647.6
57.5°	7.8	7.8	18.1	196.9	176.2	191.7	253.9	310.9	349.7	383.4
60°	2.6	2.6	5.2	10.4	72.5	80.3	98.4	114.0	160.6	199.5
62.5°	0.0	0.0	2.6	5.2	10.4	41.4	46.6	54.4	75.1	103.6
65°	0.0	0.0	0.0	2.6	5.2	10.4	15.5	33.7	46.6	59.6
67.5°	0.0	0.0	0.0	2.6	2.6	5.2	10.4	15.5	20.7	41.4
70°	0.0	0.0	0.0	2.6	2.6	5.2	7.8	10.4	15.5	20.7
72.5°	0.0	0.0	0.0	2.6	2.6	7.8	5.2	7.8	10.4	13.0
75°	0.0	0.0	0.0	2.6	2.6	2.6	5.2	7.8	7.8	10.4
77.5°	0.0	0.0	0.0	2.6	5.2	5.2	5.2	5.2	5.2	7.8
80°	0.0	0.0	0.0	2.6	2.6	5.2	7.8	10.4	5.2	5.2
82.5°	0.0	0.0	0.0	5.2	2.6	10.4	15.5	13.0	5.2	2.6
85°	0.0	0.0	0.0	2.6	10.4	13.0	13.0	7.8	2.6	2.6
87.5°	0.0	0.0	0.0	2.6	2.6	5.2	7.8	7.8	2.6	2.6
90°	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°
10812.8	0°	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8	10812.8
10774.0	2.5°	10714.4	10815.4	10906.1	10849.1	10828.4	10786.9	10755.8	10722.2	10719.6
10680.7	5°	10621.1	10717.0	10805.1	10737.7	10742.9	10722.2	10701.4	10693.7	10698.8
10584.9	7.5°	10540.8	10621.1	10717.0	10660.0	10675.5	10662.6	10652.2	10636.7	10660.0
10460.5	10°	10419.1	10491.6	10603.0	10548.6	10540.8	10527.9	10517.5	10489.0	10502.0
10235.1	12.5°	10152.2	10242.9	10369.8	10307.7	10328.4	10292.1	10276.6	10258.5	10261.0
9844.0	15°	9789.6	9859.5	9989.0	9939.8	9955.4	9932.0	9932.0	9932.0	9950.2
9134.2	17.5°	9157.5	9300.0	9504.6	9442.4	9465.8	9470.9	9465.8	9483.9	9507.2
8123.9	20°	8129.0	8372.6	8745.6	8867.3	8916.6	8919.2	8882.9	8926.9	8973.6
7178.3	22.5°	7183.5	7440.0	7769.0	8103.1	8310.4	8300.0	8305.2	8333.7	8382.9
6336.4	25°	6364.9	6611.0	6908.9	7206.8	7660.2	7753.4	7756.0	7781.9	7820.8
5761.3	27.5°	5774.3	5870.1	6142.1	6442.6	6929.6	7227.5	7212.0	7235.3	7276.8
5041.1	30°	5061.9	5429.7	5491.9	5675.8	6095.5	6642.1	6644.7	6670.6	6712.0
4616.3	32.5°	4603.4	4846.9	5038.6	5043.7	5401.2	5963.4	6074.8	6100.7	6129.2
4175.9	35°	4173.3	4201.8	4460.9	4533.4	4740.6	5297.6	5494.5	5510.0	5556.7
3551.6	37.5°	3611.2	3779.6	3852.1	4111.2	4121.5	4572.3	4963.4	4947.9	4984.2
3056.8	40°	3095.7	3256.3	3440.2	3629.3	3655.2	3992.0	4424.6	4440.1	4455.7
2536.1	42.5°	2556.8	2761.5	2950.6	3077.5	3253.7	3448.0	3859.9	3932.4	3968.7
2173.4	45°	2212.3	2269.3	2494.7	2681.2	2859.9	2950.6	3336.6	3468.7	3492.0
1720.1	47.5°	1743.4	1935.1	2088.0	2246.0	2468.8	2549.1	2828.8	3012.8	3030.9
1277.1	50°	1347.1	1484.4	1694.2	1836.7	2095.7	2139.8	2331.5	2569.8	2593.1
854.9	52.5°	963.7	1150.2	1354.8	1492.1	1740.8	1797.8	1940.3	2168.3	2183.8
655.4	55°	691.7	813.4	981.8	1178.7	1360.0	1487.0	1585.4	1803.0	1823.7
430.0	57.5°	471.5	585.5	655.4	852.3	961.1	1098.4	1178.7	1344.5	1360.0
204.7	60°	225.4	279.8	334.2	432.6	502.6	619.1	670.9	738.3	756.4
124.3	62.5°	145.1	171.0	217.6	259.1	326.4	398.9	419.7	476.7	497.4
77.7	65°	95.8	121.8	171.0	181.3	248.7	305.7	331.6	373.0	396.3
46.6	67.5°	54.4	85.5	126.9	150.3	196.9	251.3	279.8	316.0	336.8
31.1	70°	36.3	69.9	101.0	124.3	155.4	202.1	238.3	269.4	282.4
15.5	72.5°	20.7	44.0	69.9	98.4	124.3	168.4	202.1	228.0	150.3
10.4	75°	13.0	33.7	59.6	82.9	103.6	134.7	163.2	160.6	67.4
7.8	77.5°	10.4	25.9	51.8	69.9	85.5	93.3	116.6	132.1	51.8
5.2	80°	7.8	20.7	46.6	59.6	33.7	67.4	90.7	98.4	36.3
5.2	82.5°	5.2	13.0	38.9	41.4	23.3	49.2	72.5	64.8	25.9
2.6	85°	2.6	7.8	13.0	23.3	20.7	23.3	18.1	25.9	18.1
2.6	87.5°	2.6	5.2	10.4	10.4	10.4	7.8	10.4	10.4	10.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10812.8
10781.7
10763.6
10724.7
10564.1
10336.2
9958.0
9584.9
9004.6
8390.7
7888.1
7315.6
6784.6
6193.9
5605.9
5028.2
4504.9
4020.5
3549.0
3074.9
2626.8
2212.3
1841.9
1391.1
777.2
502.6
396.3
334.2
279.8
121.8
67.4
51.8
38.9
25.9
18.1
10.4
0.0

(END OF REPORT)