

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: P636717

Luminaire Tested: **IFLD-S-SA3E-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636717  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-927-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13135.2 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

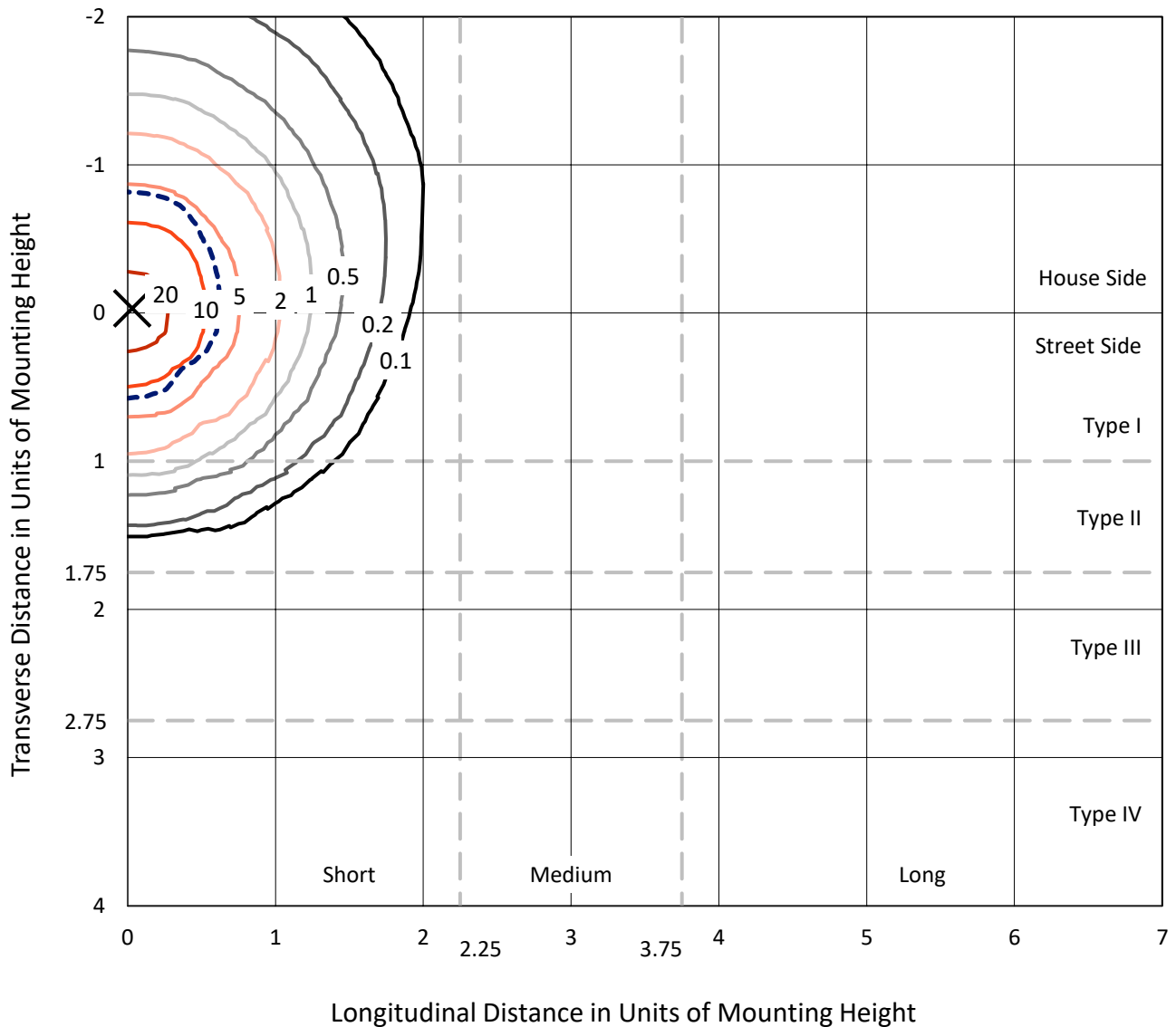
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

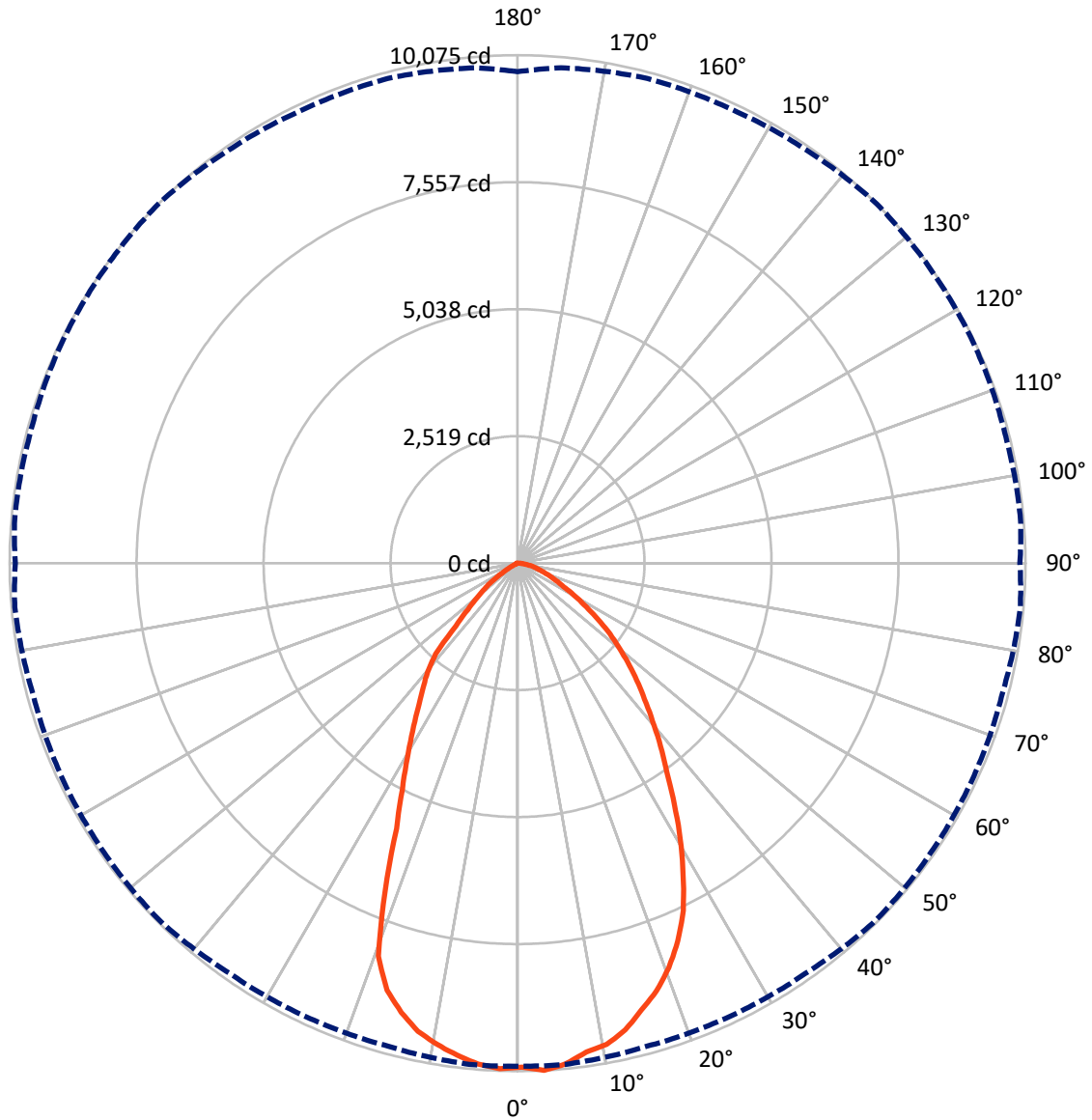
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7779.3	0.0	7779.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5355.9	0.0	5355.9
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	13135.2	0.0	13135.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	937.5	7.1
10°-20°	2513.8	19.1
20°-30°	3065.8	23.3
30°-40°	2799.0	21.3
40°-50°	2022.8	15.4
50°-60°	1104.5	8.4
60°-70°	456.6	3.5
70°-80°	184.9	1.4
80°-90°	50.3	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°	13135.2	100.0
0°-180°	13135.2	100.0



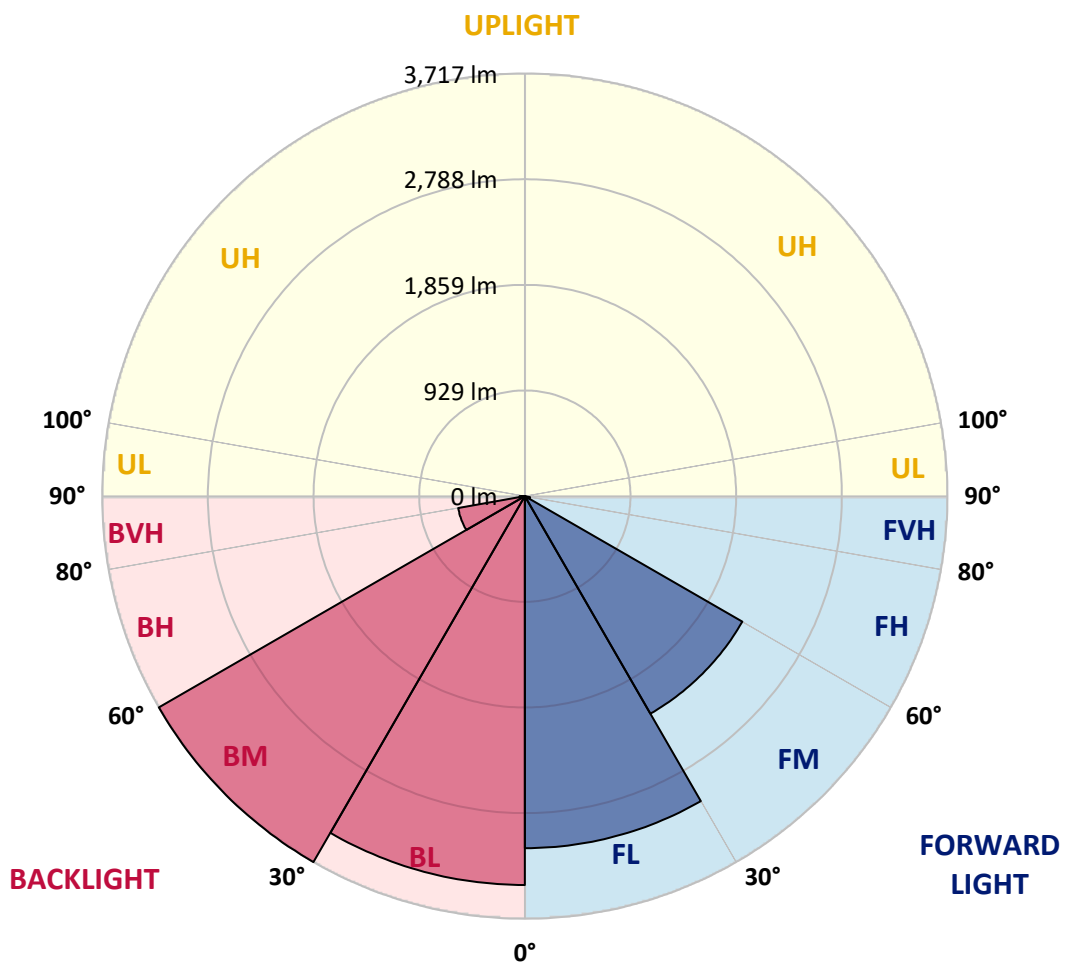
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3096.5	23.6			
FM	(30°-60°)	2209.1	16.8			
FH	(60°-80°)	46.3	0.4			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	3420.6	26.0	B4/5000		
BM	(30°-60°)	3717.2	28.3	B3/5000		
BH	(60°-80°)	595.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	46.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9
2.5°	9977.4	9990.3	9920.0	9927.4	9940.4	10034.7	10010.7	9988.5	9957.0	10010.7
5°	9964.4	9971.8	9897.8	9871.9	9883.0	9968.1	9890.4	9890.4	9883.0	9873.8
7.5°	9864.5	9868.2	9810.9	9764.7	9794.2	9833.1	9775.8	9803.5	9762.8	9794.2
10°	9714.7	9690.7	9622.2	9609.3	9642.6	9679.6	9640.7	9666.6	9629.6	9653.7
12.5°	9494.6	9457.6	9402.1	9385.5	9442.8	9492.7	9461.3	9446.5	9398.4	9457.6
15°	8645.6	8617.8	8743.6	8963.7	9161.6	9204.2	9170.9	9185.7	9085.8	9102.5
17.5°	7115.9	7064.1	7199.1	7720.7	8464.3	8856.4	8826.8	8730.7	8582.7	8616.0
20°	6466.6	6451.8	6437.0	6560.9	7080.7	8270.1	8310.8	8066.6	7855.7	7809.5
22.5°	6100.4	6094.8	6080.0	6107.8	6244.6	7008.6	7474.7	7249.0	7108.5	7095.5
25°	5765.6	5756.3	5711.9	5747.1	5747.1	5791.5	6388.9	6525.8	6401.9	6387.1
27.5°	5425.2	5408.6	5401.2	5417.8	5332.7	5033.1	5184.8	5852.5	5787.8	5791.5
30°	5057.1	5051.6	5031.2	5066.4	4803.7	4431.9	4335.7	5242.1	5255.0	5251.3
32.5°	4509.6	4533.7	4626.1	4665.0	4232.2	3925.1	3764.2	4535.5	4800.0	4794.5
35°	3275.8	3275.8	3577.4	4137.8	3708.7	3477.5	3390.5	3845.6	4350.5	4369.0
37.5°	2693.2	2702.4	2761.6	3016.9	3200.0	3118.6	3092.7	3237.0	3773.4	3803.0
40°	2423.1	2423.1	2423.1	2317.7	2312.1	2809.7	2794.9	2748.7	3259.2	3323.9
42.5°	2177.1	2182.7	2186.4	1920.0	1772.0	2428.7	2395.4	2325.1	2798.6	2874.5
45°	1923.7	1933.0	1944.1	1605.6	1540.8	1748.0	2027.3	1949.6	2343.6	2441.6
47.5°	1174.6	1189.4	1440.9	1361.4	1368.8	1348.4	1653.6	1640.7	1921.9	2060.6
50°	793.5	799.1	823.1	863.8	1174.6	1059.9	1170.9	1357.7	1459.4	1670.3
52.5°	665.9	675.1	616.0	560.5	771.3	828.7	817.6	1008.1	1048.8	1309.6
55°	468.0	497.6	469.8	464.3	438.4	643.7	619.7	775.0	800.9	995.1
57.5°	48.1	55.5	96.2	345.9	286.7	364.4	442.1	567.9	593.8	734.3
60°	3.7	3.7	9.2	48.1	209.0	218.3	305.2	349.6	399.5	512.4
62.5°	0.0	1.8	3.7	7.4	33.3	116.5	153.5	183.1	240.5	331.1
65°	0.0	0.0	1.8	5.5	7.4	44.4	59.2	96.2	131.3	205.3
67.5°	0.0	0.0	1.8	3.7	5.5	11.1	20.3	35.1	70.3	116.5
70°	0.0	0.0	1.8	3.7	5.5	9.2	14.8	22.2	31.4	62.9
72.5°	0.0	0.0	1.8	1.8	3.7	9.2	11.1	14.8	22.2	31.4
75°	0.0	0.0	1.8	1.8	5.5	11.1	9.2	11.1	14.8	20.3
77.5°	0.0	0.0	1.8	3.7	5.5	11.1	9.2	11.1	11.1	12.9
80°	0.0	0.0	1.8	3.7	7.4	12.9	11.1	11.1	9.2	9.2
82.5°	0.0	0.0	1.8	5.5	7.4	16.6	16.6	14.8	7.4	5.5
85°	0.0	0.0	3.7	7.4	11.1	18.5	18.5	14.8	5.5	3.7
87.5°	0.0	0.0	3.7	5.5	9.2	12.9	18.5	14.8	5.5	1.8
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°
9995.9	0°	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9	9995.9
9964.4	2.5°	10014.4	10003.3	10040.3	10055.1	10075.4	9997.7	9949.6	9951.5	9862.7
9851.6	5°	9910.8	9912.6	9960.7	9957.0	9977.4	9934.8	9916.3	9884.9	9807.2
9709.2	7.5°	9779.4	9762.8	9809.0	9844.2	9792.4	9822.0	9779.4	9794.2	9748.0
9583.4	10°	9677.7	9638.9	9681.4	9705.5	9707.3	9677.7	9637.0	9598.2	9581.5
9387.3	12.5°	9452.0	9402.1	9474.2	9507.5	9502.0	9444.7	9398.4	9407.7	9354.0
9043.3	15°	9141.3	9143.1	9194.9	9226.4	9196.8	9183.8	9187.5	9165.3	9119.1
8567.9	17.5°	8665.9	8693.7	8830.5	8906.4	8923.0	8897.1	8884.2	8858.3	8812.0
7809.5	20°	7874.2	8040.7	8284.9	8519.8	8566.0	8558.6	8512.4	8501.3	8475.4
7058.5	22.5°	7178.7	7302.7	7585.7	7951.9	8140.6	8159.1	8103.6	8087.0	8059.2
6387.1	25°	6459.2	6592.4	6847.6	7245.3	7635.6	7715.2	7705.9	7656.0	7626.4
5791.5	27.5°	5852.5	5985.7	6216.9	6575.7	6993.8	7249.0	7273.1	7193.5	7191.7
5260.6	30°	5305.0	5488.1	5663.8	5956.1	6361.2	6744.1	6784.8	6729.3	6734.8
4774.1	32.5°	4875.9	5027.5	5177.4	5373.4	5710.1	6155.9	6314.9	6263.1	6242.8
4369.0	35°	4437.5	4541.1	4694.6	4874.0	5103.4	5545.4	5821.1	5782.2	5761.9
3821.5	37.5°	3938.0	4115.6	4226.6	4428.2	4607.6	4959.1	5347.5	5342.0	5299.4
3355.4	40°	3425.7	3612.5	3780.8	3984.3	4123.0	4402.3	4833.3	4831.5	4837.0
2872.6	42.5°	2961.4	3133.4	3336.9	3558.9	3692.0	3895.5	4357.9	4383.8	4415.3
2474.9	45°	2541.5	2696.9	2885.6	3155.6	3316.5	3433.1	3843.7	3962.1	3960.2
2119.8	47.5°	2164.2	2310.3	2469.4	2732.0	2937.3	3042.8	3383.1	3551.5	3540.4
1738.7	50°	1816.4	1945.9	2112.4	2302.9	2578.5	2671.0	2924.4	3146.4	3129.7
1385.4	52.5°	1461.3	1640.7	1781.3	1955.2	2245.6	2336.2	2532.3	2748.7	2735.7
1039.5	55°	1139.4	1313.3	1483.5	1633.3	1877.5	2012.5	2153.1	2375.0	2371.3
813.9	57.5°	862.0	1052.5	1213.4	1355.8	1550.1	1716.5	1829.4	2031.0	2056.9
556.8	60°	638.2	784.3	958.2	1117.2	1270.8	1442.8	1518.6	1716.5	1727.6
381.0	62.5°	434.7	595.6	765.8	910.1	1024.7	1202.3	1270.8	1433.5	1453.9
244.2	65°	301.5	405.1	599.3	702.9	843.5	995.1	1063.6	1193.1	1233.8
140.6	67.5°	199.8	288.6	468.0	562.3	701.0	804.6	891.6	997.0	1041.4
88.8	70°	109.1	212.7	334.8	443.9	564.2	664.0	749.1	834.2	873.1
40.7	72.5°	74.0	142.4	233.1	351.4	455.0	553.1	628.9	691.8	693.6
24.0	75°	37.0	96.2	177.6	271.9	355.1	451.3	519.8	556.8	512.4
14.8	77.5°	22.2	70.3	144.3	218.3	288.6	364.4	403.2	423.6	351.4
11.1	80°	12.9	49.9	112.8	173.9	199.8	268.2	305.2	310.8	234.9
7.4	82.5°	9.2	37.0	88.8	127.6	122.1	188.7	229.4	222.0	149.8
5.5	85°	5.5	25.9	55.5	79.5	74.0	123.9	133.2	136.9	86.9
3.7	87.5°	3.7	14.8	29.6	42.5	35.1	53.6	53.6	64.7	42.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
9995.9  
*9748.0*  
9788.7  
9670.3  
9507.5  
9307.8  
9072.9  
8791.7  
8416.2  
8051.8  
7594.9  
7188.0  
6707.1  
6244.6  
5734.1  
5334.6  
4837.0  
4398.6  
3963.9  
3544.1  
3144.5  
2763.5  
2380.6  
2045.8  
1744.3  
1457.6  
1224.5  
1035.8  
858.3  
677.0  
479.1  
338.5  
220.1  
138.7  
79.5  
37.0  
0.0

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