

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: P637855

Luminaire Tested: **IFLD-M-SA4B-730-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637855  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17536.8 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

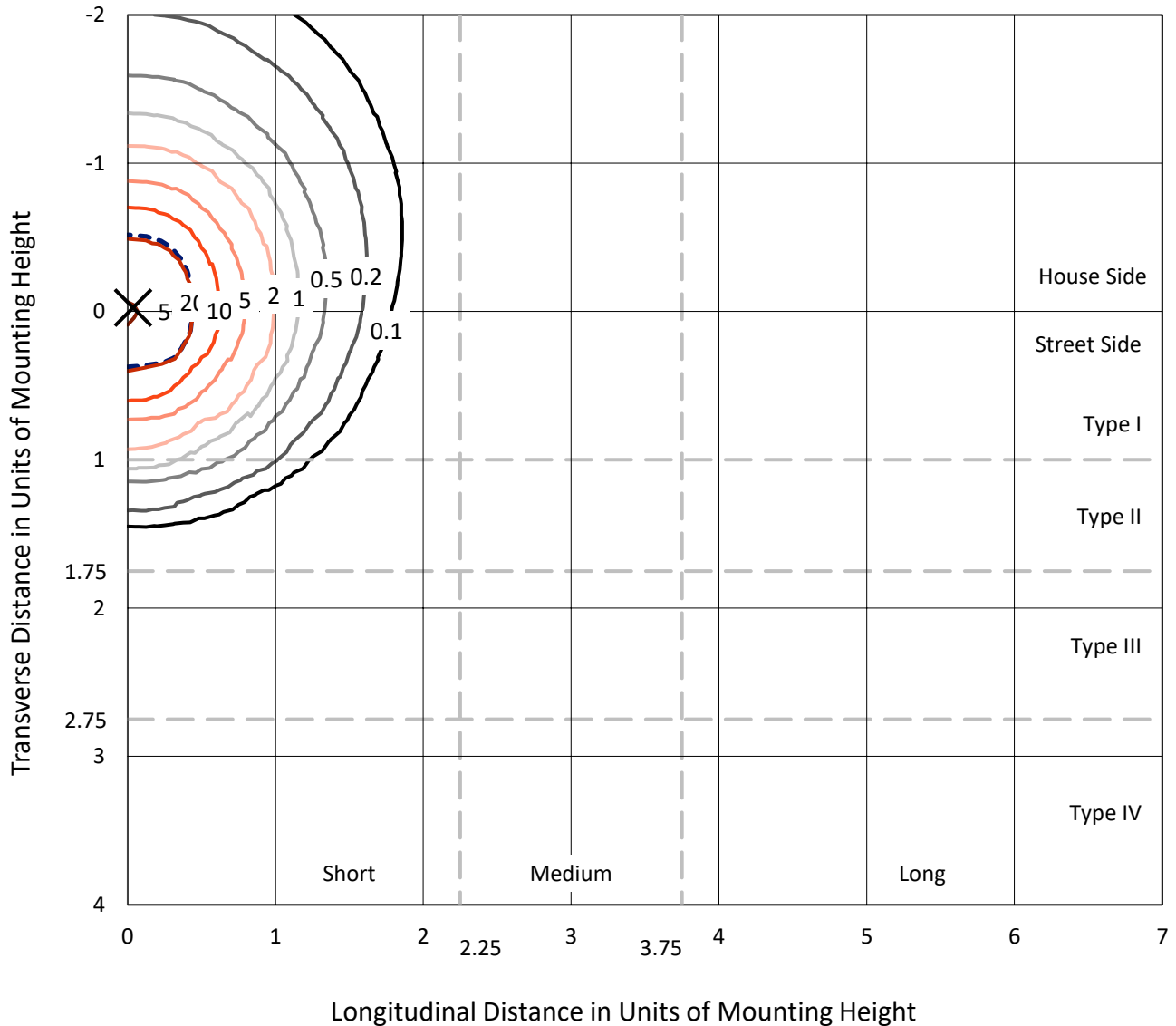
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

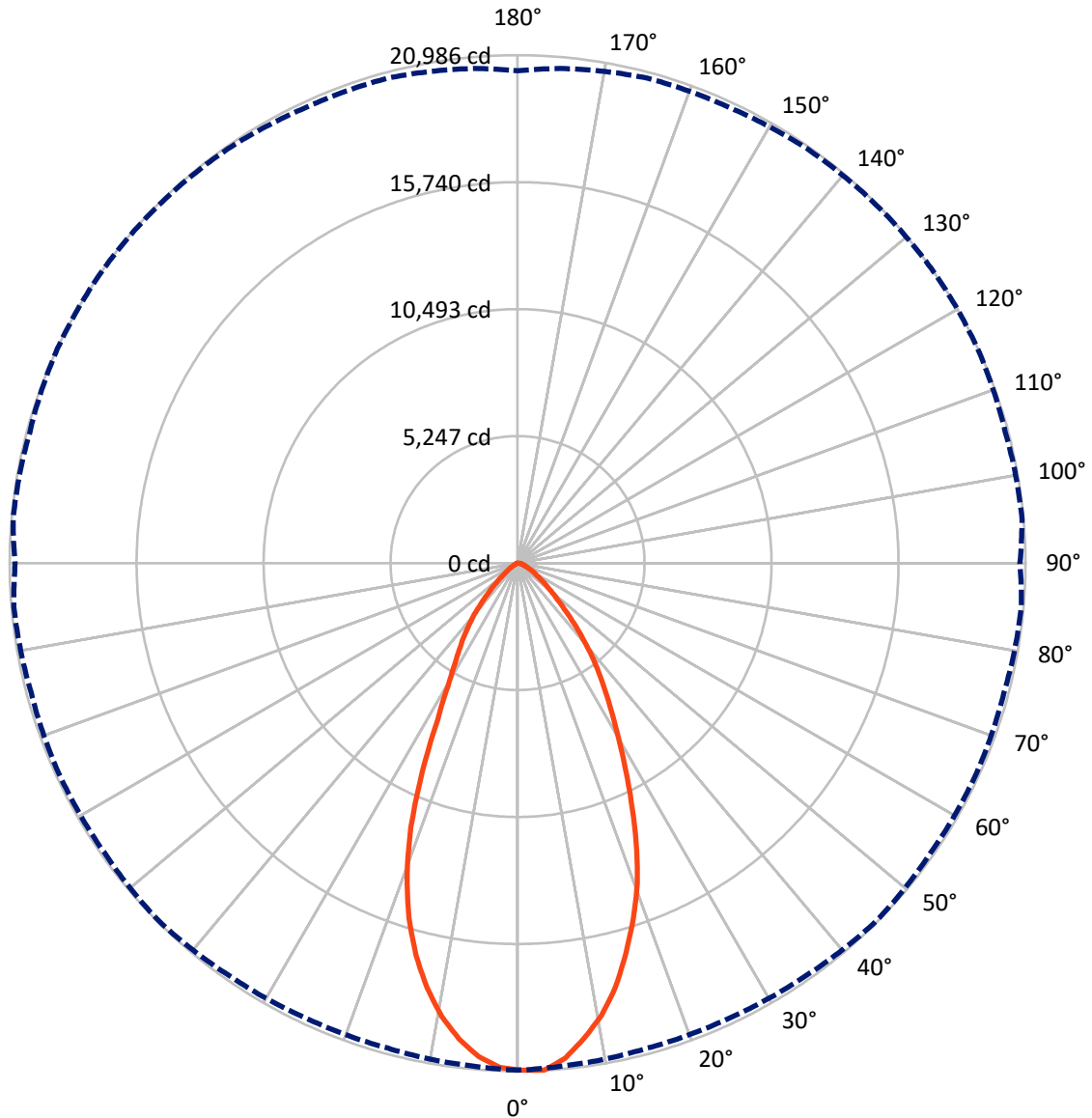
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9951.1	0.0	9951.1
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	7585.7	0.0	7585.7
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	17536.8	0.0	17536.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1902.5	10.8
10°-20°	4535.2	25.9
20°-30°	4619.0	26.3
30°-40°	3444.4	19.6
40°-50°	1799.5	10.3
50°-60°	756.9	4.3
60°-70°	309.1	1.8
70°-80°	130.1	0.7
80°-90°	40.1	0.2
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°	17536.8	100.0
0°-180°	17536.8	100.0



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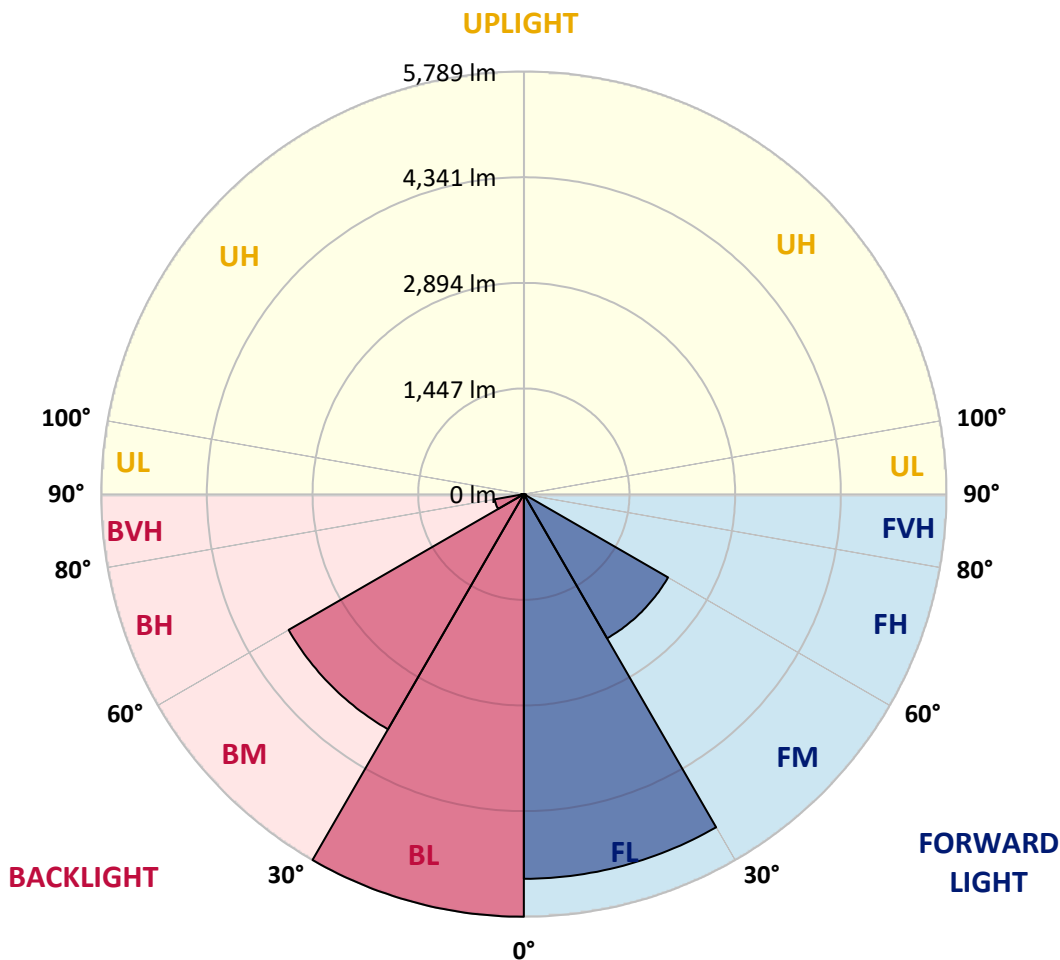
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5268.3	30.0			
FM (30°-60°)	2280.7	13.0			
FH (60°-80°)	33.0	0.2			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	5788.5	33.0	B5		
BM (30°-60°)	3720.0	21.2	B3/5000		
BH (60°-80°)	406.2	2.3	B1/500		G1/500
BVH (80°-90°)	36.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2
2.5°	20954.5	20868.9	20747.2	20736.0	20799.0	20936.4	20848.6	20853.1	20799.0	20891.4
5°	20625.6	20544.5	20461.1	20350.8	20443.1	20501.7	20456.6	20407.1	20337.2	20427.3
7.5°	20003.8	19958.8	19834.9	19785.3	19841.6	19907.0	19810.1	19796.6	19699.7	19816.9
10°	19053.2	19035.2	18913.5	18884.3	18933.8	19032.9	18990.1	18981.1	18920.3	18909.0
12.5°	18066.5	17996.7	17845.8	17836.8	17911.1	18059.8	17944.9	17834.5	17868.3	17897.6
15°	15525.5	15451.2	15825.1	16413.1	16721.7	16710.4	16744.2	16611.3	16570.7	16584.3
17.5°	12342.5	12216.3	12351.5	13261.6	14728.1	15579.6	15345.3	15059.2	14906.0	14804.6
20°	10652.9	10659.7	10634.9	10869.2	11783.8	13725.6	13669.3	13117.4	12916.9	12833.5
22.5°	9625.7	9587.4	9533.4	9607.7	9853.2	10993.1	11756.8	11249.9	11180.1	11087.7
25°	8618.8	8618.8	8553.4	8627.8	8697.6	8713.4	9479.3	9686.5	9551.4	9551.4
27.5°	7747.0	7701.9	7672.6	7706.4	7614.1	7170.3	7267.2	8328.2	8235.8	8179.5
30°	6882.0	6868.4	6818.9	6863.9	6521.5	6021.4	5818.7	7028.4	7125.2	7105.0
32.5°	5681.3	5735.3	5956.1	6025.9	5440.2	5037.0	4843.3	5834.5	6221.9	6206.1
35°	3861.1	3906.2	4158.5	4991.9	4509.9	4221.5	4165.2	4640.5	5278.0	5338.9
37.5°	3074.9	3068.2	3140.2	3288.9	3624.6	3554.7	3539.0	3662.9	4304.9	4331.9
40°	2534.3	2525.3	2523.0	2401.4	2318.0	2955.5	2912.7	2838.4	3394.8	3448.9
42.5°	2043.2	2052.2	2059.0	1793.1	1671.5	2279.7	2254.9	2178.3	2662.7	2725.7
45°	1603.9	1601.7	1615.2	1335.8	1302.1	1457.5	1685.0	1624.2	2009.4	2077.0
47.5°	831.2	860.5	1043.0	1034.0	1049.8	1034.0	1275.0	1259.3	1511.6	1619.7
50°	558.7	567.7	583.4	585.7	826.7	761.4	865.0	979.9	1058.8	1225.5
52.5°	432.5	439.3	398.7	373.9	506.9	563.2	567.7	678.1	738.9	907.8
55°	241.0	270.3	290.6	292.8	279.3	416.7	414.5	502.3	549.7	662.3
57.5°	31.5	38.3	58.6	189.2	187.0	232.0	290.6	364.9	392.0	484.3
60°	2.3	4.5	6.8	29.3	123.9	135.2	198.2	227.5	272.6	340.2
62.5°	0.0	0.0	2.3	6.8	24.8	78.8	103.6	119.4	159.9	223.0
65°	0.0	0.0	2.3	4.5	9.0	29.3	40.5	65.3	94.6	137.4
67.5°	0.0	0.0	2.3	4.5	6.8	11.3	18.0	29.3	49.6	83.3
70°	0.0	0.0	2.3	4.5	6.8	9.0	13.5	18.0	27.0	45.1
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	11.3	13.5	18.0	24.8
75°	0.0	0.0	2.3	4.5	6.8	11.3	11.3	11.3	13.5	15.8
77.5°	0.0	0.0	2.3	4.5	6.8	11.3	9.0	11.3	11.3	11.3
80°	0.0	0.0	2.3	4.5	6.8	11.3	13.5	11.3	9.0	9.0
82.5°	0.0	0.0	2.3	6.8	6.8	15.8	15.8	15.8	6.8	6.8
85°	0.0	0.0	4.5	6.8	11.3	18.0	18.0	13.5	6.8	4.5
87.5°	0.0	0.0	2.3	4.5	4.5	9.0	13.5	11.3	4.5	2.3
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°
20952.2	0°	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2	20952.2
20756.2	2.5°	20922.9	20866.6	20972.5	20986.0	20941.0	20884.6	20754.0	20742.7	20515.2
20296.7	5°	20526.5	20434.1	20501.7	20546.7	20531.0	20470.1	20416.1	20366.5	20161.5
19551.0	7.5°	19787.6	19753.8	19785.3	19819.1	19884.4	19819.1	19796.6	19744.8	19542.0
18816.7	10°	18967.6	18904.5	19023.9	19008.2	18990.1	18972.1	18877.5	18886.5	18647.7
17816.5	12.5°	17960.7	17854.8	17969.7	17983.2	17969.7	17906.6	17800.7	17845.8	17627.3
16464.9	15°	16606.8	16595.5	16678.9	16732.9	16771.2	16703.7	16667.6	16690.1	16559.5
14725.8	17.5°	14944.3	15090.7	15363.3	15455.7	15457.9	15527.8	15507.5	15480.4	15383.6
12799.8	20°	12989.0	13270.6	13689.6	14119.8	14243.7	14185.2	14158.1	14207.7	14063.5
10990.8	22.5°	11184.6	11425.6	11912.2	12540.7	12903.4	12939.4	12932.7	12889.9	12833.5
9542.4	25°	9652.8	9866.8	10333.1	10907.5	11603.6	11707.2	11711.7	11698.2	11648.6
8229.1	27.5°	8359.7	8618.8	8875.6	9389.2	10130.3	10558.3	10504.3	10488.5	10470.5
7120.7	30°	7188.3	7515.0	7756.0	8075.9	8740.4	9319.4	9375.7	9348.6	9305.8
6203.9	32.5°	6260.2	6453.9	6760.3	6976.6	7454.1	8109.7	8325.9	8305.6	8267.4
5377.2	35°	5453.7	5530.3	5771.4	6012.4	6330.0	6965.3	7285.2	7240.1	7233.4
4381.5	37.5°	4491.9	4748.7	4881.6	5124.9	5347.9	5841.2	6282.7	6262.5	6264.7
3523.2	40°	3626.8	3775.5	4039.1	4244.1	4449.1	4809.5	5300.6	5314.1	5309.6
2728.0	42.5°	2784.3	2928.5	3205.6	3428.6	3611.1	3834.1	4302.6	4318.4	4338.7
2124.3	45°	2173.8	2266.2	2468.9	2701.0	2894.7	3029.9	3385.8	3487.2	3489.4
1646.7	47.5°	1687.3	1793.1	1937.3	2160.3	2349.5	2446.4	2705.5	2842.9	2836.1
1263.8	50°	1324.6	1421.4	1538.6	1714.3	1919.3	1995.9	2187.4	2322.5	2315.8
952.9	52.5°	1013.7	1137.6	1241.2	1376.4	1576.9	1642.2	1779.6	1935.1	1912.5
698.3	55°	768.2	894.3	991.2	1103.8	1286.3	1369.6	1464.2	1588.1	1592.6
540.6	57.5°	578.9	709.6	797.5	912.3	1049.8	1142.1	1214.2	1347.1	1344.9
369.4	60°	414.5	527.1	633.0	752.4	858.3	964.1	1013.7	1139.9	1144.4
261.3	62.5°	299.6	405.5	506.9	610.5	705.1	808.7	853.8	952.9	966.4
171.2	65°	209.5	283.8	401.0	479.8	585.7	662.3	720.9	806.5	822.2
101.4	67.5°	135.2	205.0	317.6	387.5	484.3	549.7	610.5	678.1	698.3
65.3	70°	81.1	155.4	236.5	310.9	398.7	457.3	515.9	574.4	585.7
31.5	72.5°	51.8	108.1	171.2	252.3	319.9	383.0	434.8	477.6	443.8
20.3	75°	29.3	74.3	135.2	198.2	259.1	319.9	362.7	385.2	308.6
13.5	77.5°	18.0	54.1	110.4	159.9	200.5	256.8	283.8	297.4	220.8
9.0	80°	11.3	40.5	92.4	130.7	130.7	189.2	220.8	232.0	159.9
6.8	82.5°	9.0	29.3	72.1	99.1	87.9	141.9	173.5	175.7	112.6
4.5	85°	6.8	22.5	45.1	65.3	60.8	99.1	101.4	112.6	74.3
4.5	87.5°	4.5	13.5	27.0	38.3	33.8	47.3	54.1	60.8	40.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
20952.2  
20337.2  
19997.1  
19499.2  
18566.6  
17564.2  
16401.8  
15239.4  
13959.9  
12725.4  
11481.9  
10364.6  
9251.8  
8166.0  
7159.0  
6192.6  
5230.7  
4271.1  
3430.8  
2811.4  
2315.8  
1914.8  
1592.6  
1340.3  
1133.1  
961.9  
817.7  
696.1  
576.7  
412.2  
292.8  
207.2  
148.7  
103.6  
67.6  
36.0  
0.0

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