

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: P637874

Luminaire Tested: **IFLD-S-SA3B-735-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637874  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-735-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14151.4 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

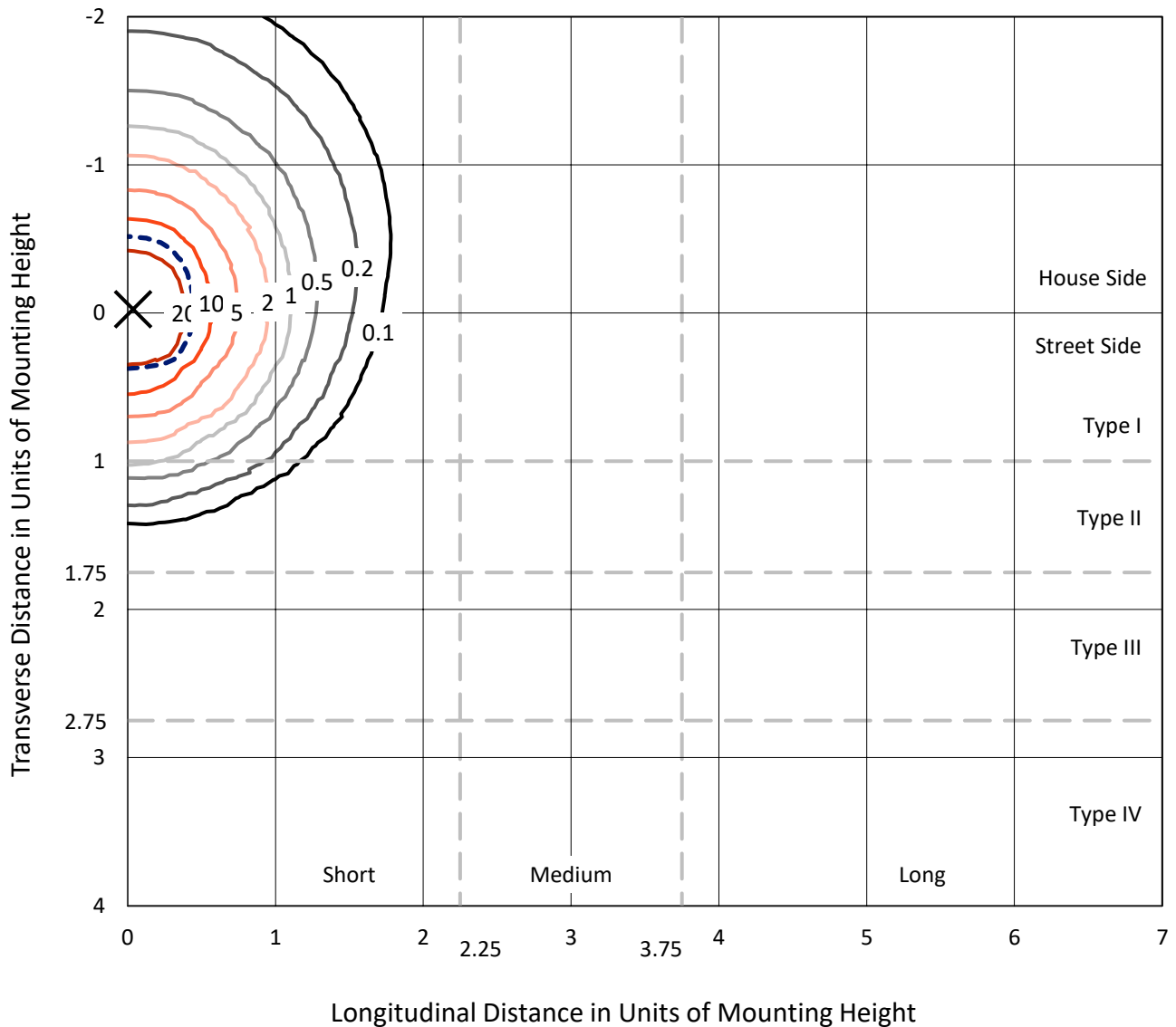
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

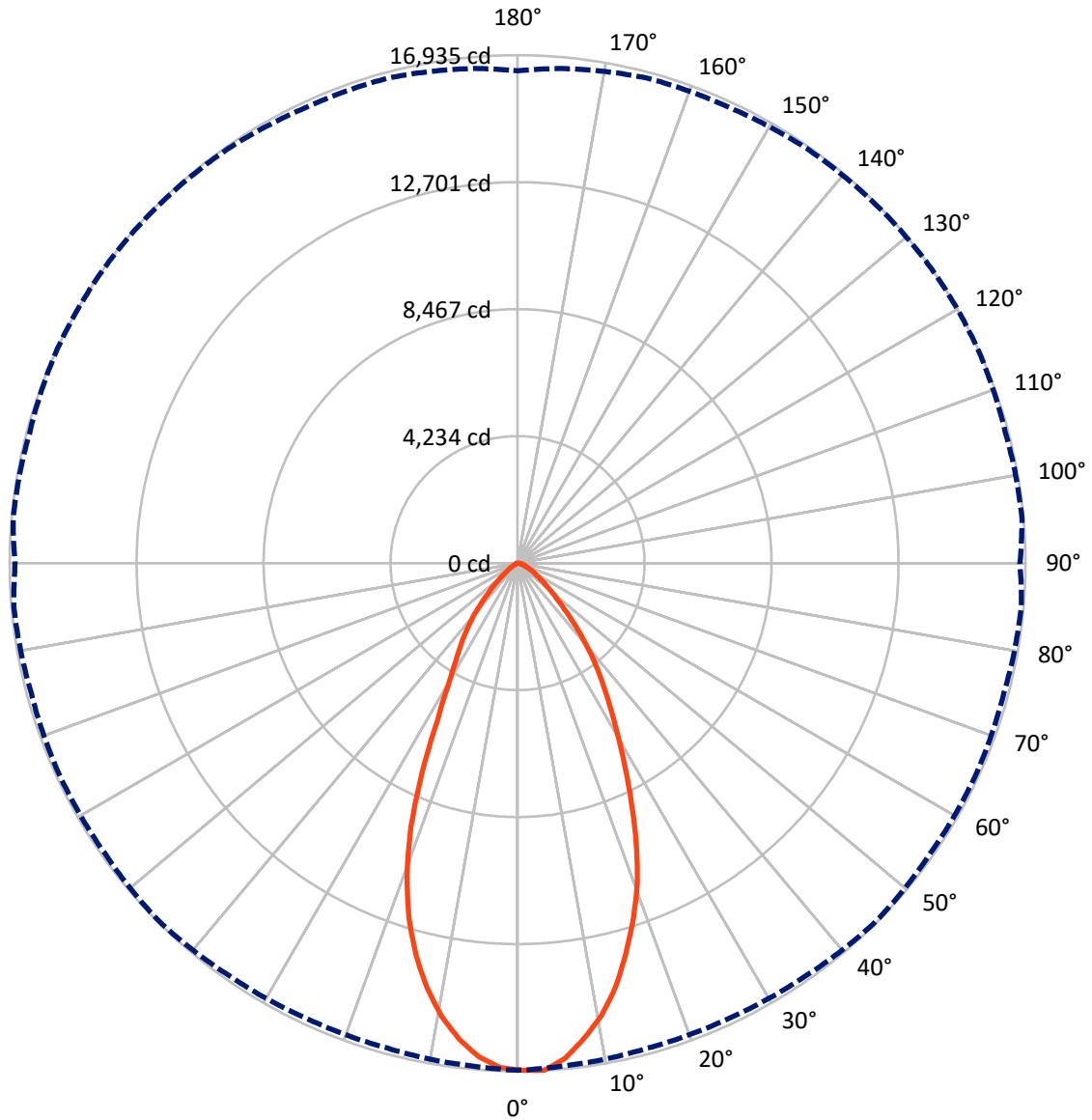
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.3 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	8030.1	0.0	8030.1
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	6121.3	0.0	6121.3
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	14151.4	0.0	14151.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1535.3	10.8
10°-20°	3659.7	25.9
20°-30°	3727.4	26.3
30°-40°	2779.5	19.6
40°-50°	1452.1	10.3
50°-60°	610.8	4.3
60°-70°	249.4	1.8
70°-80°	105.0	0.7
80°-90°	32.3	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°	14151.4	100.0
0°-180°	14151.4	100.0



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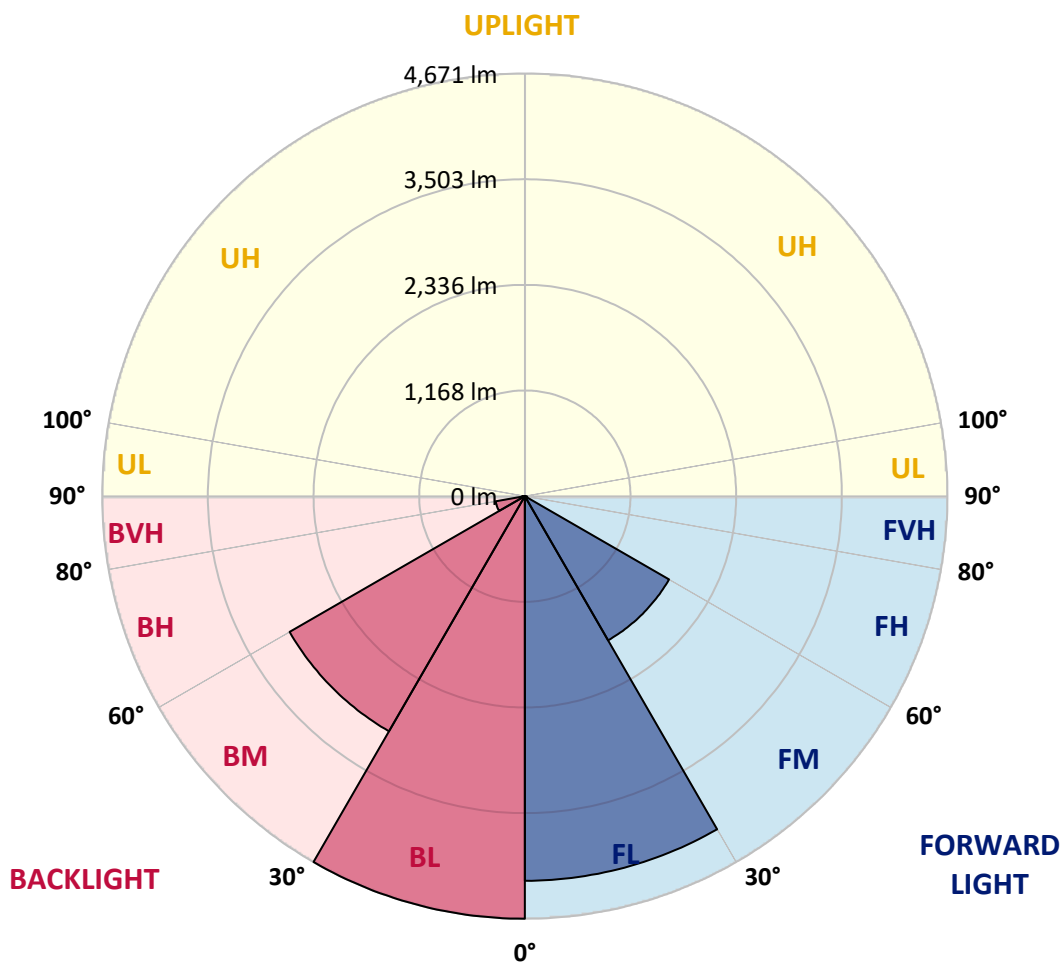
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4251.3	30.0			
FM (30°-60°)	1840.4	13.0			
FH (60°-80°)	26.6	0.2			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4671.1	33.0	B4/5000		
BM (30°-60°)	3001.9	21.2	B3/5000		
BH (60°-80°)	327.8	2.3	B1/500		G1/500
BVH (80°-90°)	29.3	0.2			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°	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5
2.5°	16909.3	16840.3	16742.1	16733.0	16783.9	16894.8	16823.9	16827.5	16783.9	16858.4
5°	16643.9	16578.5	16511.2	16422.2	16496.7	16544.0	16507.6	16467.6	16411.3	16484.0
7.5°	16142.2	16105.9	16005.9	15965.9	16011.3	16064.1	15985.9	15975.0	15896.8	15991.3
10°	15375.1	15360.6	15262.4	15238.8	15278.8	15358.7	15324.2	15316.9	15267.8	15258.8
12.5°	14578.9	14522.5	14400.7	14393.5	14453.5	14573.4	14480.7	14391.7	14418.9	14442.6
15°	12528.4	12468.4	12770.2	13244.6	13493.7	13484.6	13511.8	13404.6	13371.9	13382.8
17.5°	9959.8	9858.0	9967.1	10701.5	11884.9	12572.0	12383.0	12152.1	12028.5	11946.7
20°	8596.5	8601.9	8581.9	8771.0	9509.0	11076.0	11030.5	10585.2	10423.4	10356.1
22.5°	7767.5	7736.6	7693.0	7753.0	7951.1	8870.9	9487.2	9078.2	9021.8	8947.3
25°	6955.0	6955.0	6902.3	6962.2	7018.6	7031.3	7649.4	7816.6	7707.5	7707.5
27.5°	6251.5	6215.1	6191.5	6218.8	6144.2	5786.1	5864.3	6720.5	6645.9	6600.5
30°	5553.4	5542.5	5502.5	5538.9	5262.6	4859.0	4695.4	5671.6	5749.8	5733.4
32.5°	4584.5	4628.2	4806.3	4862.7	4390.0	4064.6	3908.3	4708.1	5020.8	5008.1
35°	3115.7	3152.1	3355.7	4028.3	3639.3	3406.6	3361.1	3744.7	4259.1	4308.2
37.5°	2481.3	2475.9	2534.0	2654.0	2924.9	2868.5	2855.8	2955.8	3473.8	3495.7
40°	2045.0	2037.8	2036.0	1937.8	1870.5	2385.0	2350.4	2290.4	2739.5	2783.1
42.5°	1648.8	1656.0	1661.5	1447.0	1348.8	1839.6	1819.6	1757.8	2148.7	2199.6
45°	1294.3	1292.5	1303.4	1078.0	1050.7	1176.1	1359.7	1310.6	1621.5	1676.0
47.5°	670.8	694.4	841.6	834.4	847.1	834.4	1028.9	1016.2	1219.8	1307.0
50°	450.8	458.1	470.8	472.6	667.1	614.4	698.0	790.8	854.4	988.9
52.5°	349.0	354.5	321.8	301.8	409.0	454.5	458.1	547.2	596.2	732.6
55°	194.5	218.1	234.5	236.3	225.4	336.3	334.5	405.4	443.5	534.4
57.5°	25.4	30.9	47.3	152.7	150.9	187.2	234.5	294.5	316.3	390.8
60°	1.8	3.6	5.5	23.6	100.0	109.1	160.0	183.6	220.0	274.5
62.5°	0.0	0.0	1.8	5.5	20.0	63.6	83.6	96.3	129.1	180.0
65°	0.0	0.0	1.8	3.6	7.3	23.6	32.7	52.7	76.3	110.9
67.5°	0.0	0.0	1.8	3.6	5.5	9.1	14.5	23.6	40.0	67.3
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.5	21.8	36.4
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	9.1	10.9	14.5	20.0
75°	0.0	0.0	1.8	3.6	5.5	9.1	9.1	9.1	10.9	12.7
77.5°	0.0	0.0	1.8	3.6	5.5	9.1	7.3	9.1	9.1	9.1
80°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	9.1	7.3	7.3
82.5°	0.0	0.0	1.8	5.5	5.5	12.7	12.7	12.7	5.5	5.5
85°	0.0	0.0	3.6	5.5	9.1	14.5	14.5	10.9	5.5	3.6
87.5°	0.0	0.0	1.8	3.6	3.6	7.3	10.9	9.1	3.6	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°
16907.5	0°	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5	16907.5
16749.4	2.5°	16883.9	16838.4	16923.9	16934.8	16898.4	16853.0	16747.6	16738.5	16554.9
16378.5	5°	16564.0	16489.4	16544.0	16580.3	16567.6	16518.5	16474.9	16434.9	16269.5
15776.8	7.5°	15967.7	15940.4	15965.9	15993.2	16045.9	15993.2	15975.0	15933.2	15769.6
15184.2	10°	15306.0	15255.1	15351.5	15338.7	15324.2	15309.7	15233.3	15240.6	15047.9
14377.1	12.5°	14493.5	14408.0	14500.7	14511.6	14500.7	14449.8	14364.4	14400.7	14224.4
13286.4	15°	13400.9	13391.9	13459.1	13502.7	13533.6	13479.1	13450.0	13468.2	13362.8
11883.1	17.5°	12059.4	12177.6	12397.5	12472.0	12473.9	12530.2	12513.9	12492.0	12413.9
10328.8	20°	10481.5	10708.8	11046.9	11394.1	11494.1	11446.8	11425.0	11465.0	11348.6
8869.1	22.5°	9025.5	9220.0	9612.6	10119.8	10412.5	10441.5	10436.1	10401.6	10356.1
7700.3	25°	7789.3	7962.0	8338.3	8801.9	9363.6	9447.2	9450.8	9439.9	9399.9
6640.5	27.5°	6745.9	6955.0	7162.2	7576.7	8174.7	8520.1	8476.5	8463.8	8449.2
5746.1	30°	5800.7	6064.2	6258.7	6516.9	7053.1	7520.3	7565.8	7543.9	7509.4
5006.3	32.5°	5051.7	5208.0	5455.3	5629.8	6015.2	6544.1	6718.7	6702.3	6671.4
4339.1	35°	4400.9	4462.7	4657.2	4851.8	5108.1	5620.7	5878.8	5842.5	5837.0
3535.7	37.5°	3624.7	3832.0	3939.2	4135.5	4315.5	4713.6	5069.9	5053.5	5055.3
2843.1	40°	2926.7	3046.7	3259.3	3424.8	3590.2	3881.0	4277.3	4288.2	4284.6
2201.4	42.5°	2246.8	2363.2	2586.8	2766.7	2914.0	3093.9	3472.0	3484.8	3501.1
1714.2	45°	1754.2	1828.7	1992.3	2179.6	2335.9	2445.0	2732.2	2814.0	2815.8
1328.8	47.5°	1361.5	1447.0	1563.3	1743.3	1896.0	1974.1	2183.2	2294.1	2288.6
1019.8	50°	1068.9	1147.0	1241.6	1383.4	1548.8	1610.6	1765.1	1874.2	1868.7
768.9	52.5°	818.0	918.0	1001.6	1110.7	1272.5	1325.2	1436.1	1561.5	1543.3
563.5	55°	619.9	721.7	799.8	890.7	1038.0	1105.2	1181.6	1281.6	1285.2
436.3	57.5°	467.2	572.6	643.5	736.2	847.1	921.6	979.8	1087.1	1085.2
298.1	60°	334.5	425.4	510.8	607.2	692.6	778.0	818.0	919.8	923.5
210.9	62.5°	241.8	327.2	409.0	492.6	569.0	652.6	689.0	768.9	779.8
138.2	65°	169.1	229.0	323.6	387.2	472.6	534.4	581.7	650.8	663.5
81.8	67.5°	109.1	165.4	256.3	312.7	390.8	443.5	492.6	547.2	563.5
52.7	70°	65.4	125.4	190.9	250.9	321.8	369.0	416.3	463.5	472.6
25.4	72.5°	41.8	87.3	138.2	203.6	258.1	309.0	350.8	385.4	358.1
16.4	75°	23.6	60.0	109.1	160.0	209.0	258.1	292.7	310.8	249.0
10.9	77.5°	14.5	43.6	89.1	129.1	161.8	207.2	229.0	240.0	178.1
7.3	80°	9.1	32.7	74.5	105.4	105.4	152.7	178.1	187.2	129.1
5.5	82.5°	7.3	23.6	58.2	80.0	70.9	114.5	140.0	141.8	90.9
3.6	85°	5.5	18.2	36.4	52.7	49.1	80.0	81.8	90.9	60.0
3.6	87.5°	3.6	10.9	21.8	30.9	27.3	38.2	43.6	49.1	32.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
16907.5
16411.3
16136.8
15735.0
14982.5
14173.5
13235.5
12297.5
11265.0
10268.8
9265.4
8363.8
7465.8
6589.6
5777.0
4997.2
4221.0
3446.6
2768.5
2268.6
1868.7
1545.1
1285.2
1081.6
914.4
776.2
659.9
561.7
465.4
332.7
236.3
167.2
120.0
83.6
54.5
29.1
0.0

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