

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: P638295

Luminaire Tested: **IFLD-L-SA7B-830-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638295  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-830-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21765.9 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

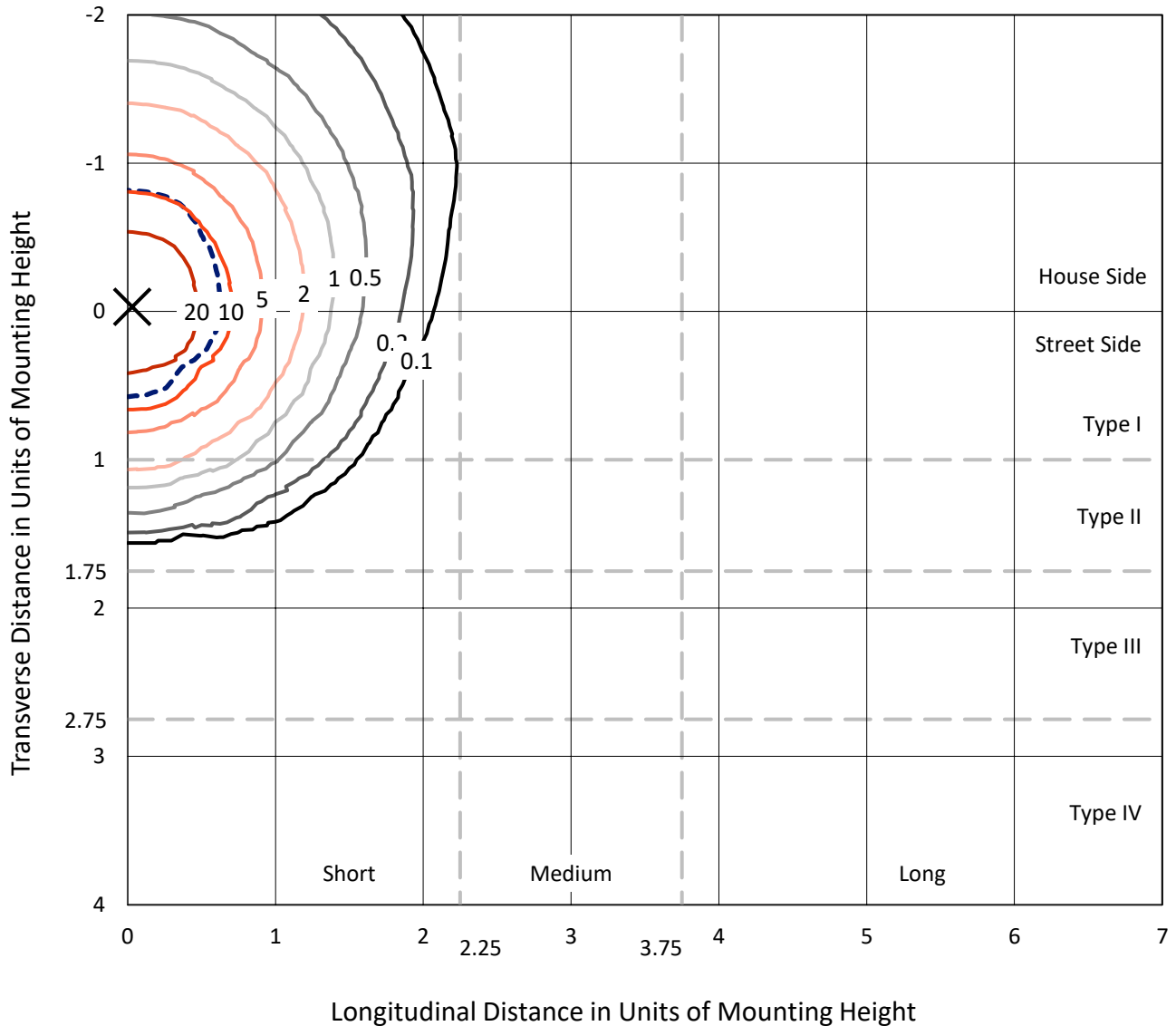
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

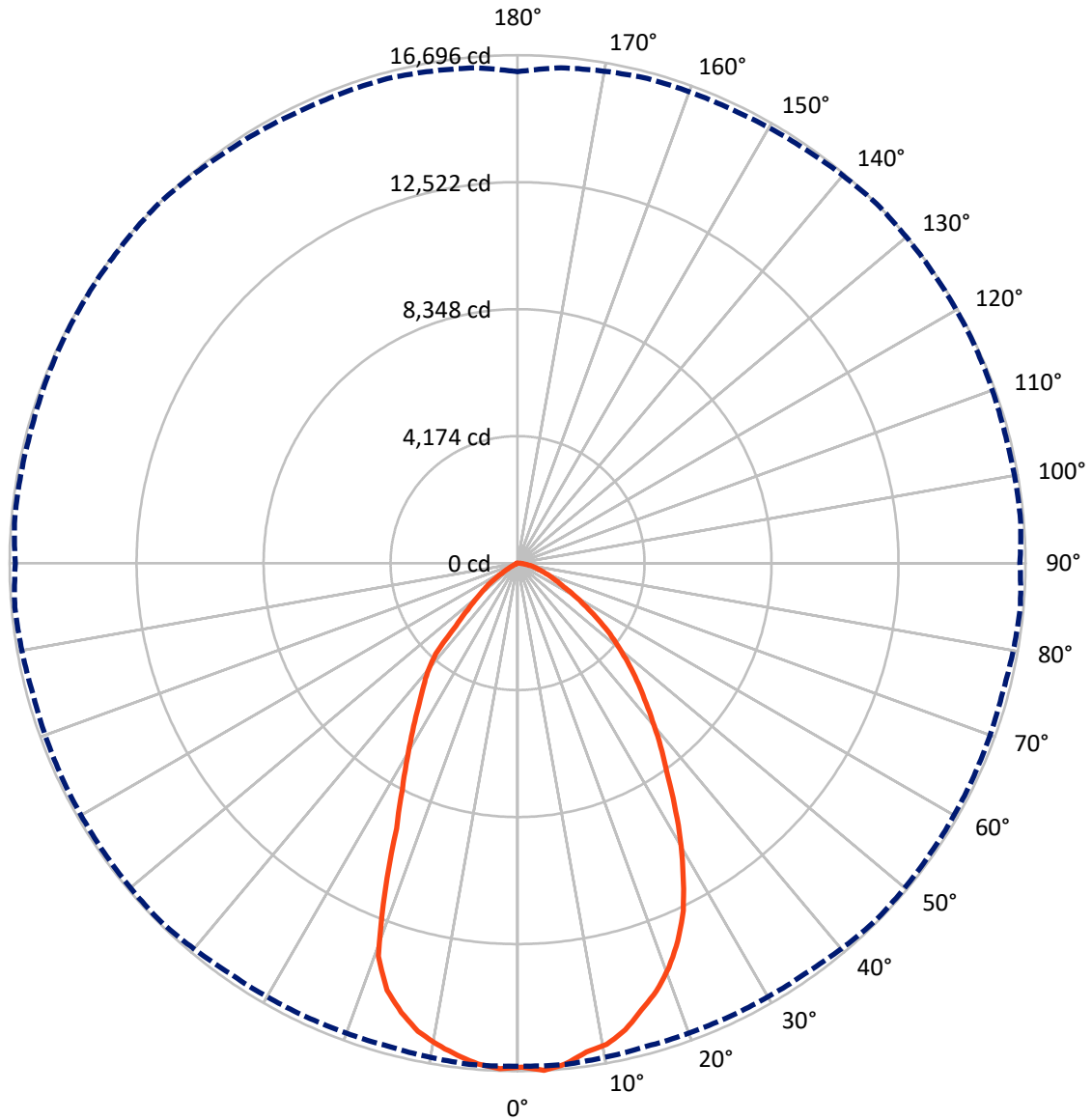
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.4 fc  
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-L-SA7B-830-U-77-VI

### 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	12890.9	0.0	12890.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8875.0	0.0	8875.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	21765.9	0.0	21765.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1553.4	7.1
10°-20°	4165.6	19.1
20°-30°	5080.2	23.3
30°-40°	4638.1	21.3
40°-50°	3351.9	15.4
50°-60°	1830.2	8.4
60°-70°	756.7	3.5
70°-80°	306.5	1.4
80°-90°	83.4	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°	21765.9	100.0
0°-180°	21765.9	100.0



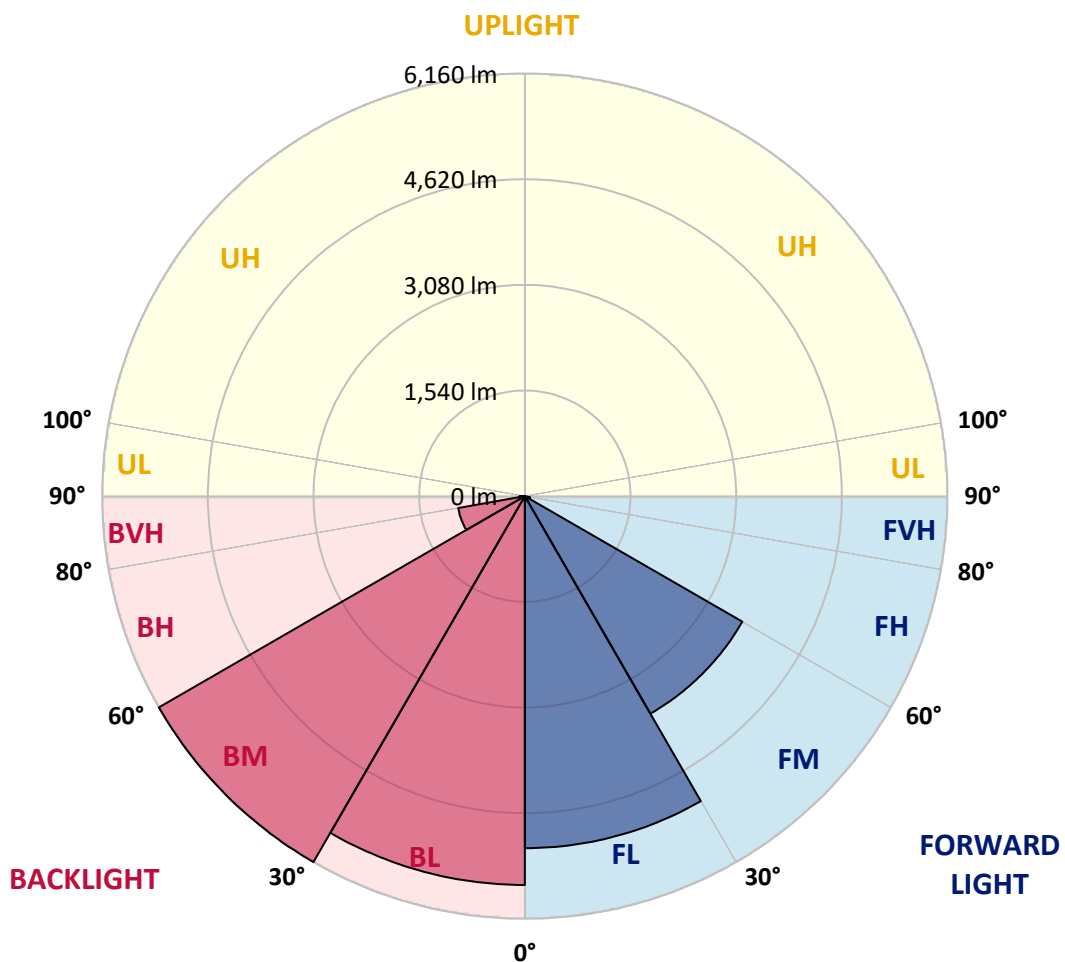
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5131.0	23.6			
FM (30°-60°)	3660.6	16.8			
FH (60°-80°)	76.7	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	5668.2	26.0	B5		
BM (30°-60°)	6159.6	28.3	B4/8500		
BH (60°-80°)	986.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	76.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8
2.5°	16533.1	16554.6	16438.1	16450.4	16471.8	16628.1	16588.3	16551.5	16499.4	16588.3
5°	16511.7	16523.9	16401.3	16358.4	16376.8	16517.8	16389.1	16389.1	16376.8	16361.5
7.5°	16346.1	16352.3	16257.3	16180.6	16229.7	16294.0	16199.0	16245.0	16177.6	16229.7
10°	16097.9	16058.0	15944.6	15923.2	15978.3	16039.6	15975.3	16018.2	15956.9	15996.7
12.5°	15733.1	15671.8	15579.9	15552.3	15647.3	15730.1	15678.0	15653.4	15573.7	15671.8
15°	14326.3	14280.3	14488.7	14853.4	15181.4	15251.9	15196.7	15221.3	15055.7	15083.3
17.5°	11791.4	11705.6	11929.3	12793.7	14025.9	14675.7	14626.6	14467.2	14222.0	14277.2
20°	10715.6	10691.0	10666.5	10871.9	11733.2	13704.0	13771.5	13366.9	13017.5	12940.8
22.5°	10108.7	10099.5	10075.0	10120.9	10347.8	11613.6	12386.0	12012.1	11779.2	11757.7
25°	9553.9	9538.6	9465.0	9523.2	9523.2	9596.8	10586.8	10813.7	10608.3	10583.8
27.5°	8989.9	8962.3	8950.1	8977.7	8836.7	8340.1	8591.5	9698.0	9590.7	9596.8
30°	8380.0	8370.8	8337.1	8395.3	7960.1	7344.0	7184.6	8686.5	8707.9	8701.8
32.5°	7472.7	7512.5	7665.8	7730.2	7012.9	6504.1	6237.5	7515.6	7953.9	7944.7
35°	5428.3	5428.3	5927.9	6856.6	6145.5	5762.4	5618.3	6372.3	7209.1	7239.8
37.5°	4462.8	4478.1	4576.2	4999.2	5302.6	5167.7	5124.8	5363.9	6252.8	6301.8
40°	4015.3	4015.3	4015.3	3840.6	3831.4	4655.9	4631.4	4554.7	5400.7	5508.0
42.5°	3607.6	3616.8	3622.9	3181.6	2936.4	4024.5	3969.3	3852.8	4637.5	4763.2
45°	3187.7	3203.0	3221.4	2660.5	2553.2	2896.5	3359.3	3230.6	3883.5	4045.9
47.5°	1946.3	1970.9	2387.7	2255.9	2268.2	2234.5	2740.2	2718.7	3184.6	3414.5
50°	1314.9	1324.1	1364.0	1431.4	1946.3	1756.3	1940.2	2249.8	2418.4	2767.8
52.5°	1103.4	1118.8	1020.7	928.7	1278.1	1373.2	1354.8	1670.5	1737.9	2170.1
55°	775.5	824.5	778.5	769.3	726.4	1066.7	1026.8	1284.3	1327.2	1649.0
57.5°	79.7	92.0	159.4	573.2	475.1	603.8	732.6	941.0	983.9	1216.8
60°	6.1	6.1	15.3	79.7	346.4	361.7	505.7	579.3	662.1	849.0
62.5°	0.0	3.1	6.1	12.3	55.2	193.1	254.4	303.4	398.5	548.7
65°	0.0	0.0	3.1	9.2	12.3	73.6	98.1	159.4	217.6	340.2
67.5°	0.0	0.0	3.1	6.1	9.2	18.4	33.7	58.2	116.5	193.1
70°	0.0	0.0	3.1	6.1	9.2	15.3	24.5	36.8	52.1	104.2
72.5°	0.0	0.0	3.1	3.1	6.1	15.3	18.4	24.5	36.8	52.1
75°	0.0	0.0	3.1	3.1	9.2	18.4	15.3	18.4	24.5	33.7
77.5°	0.0	0.0	3.1	6.1	9.2	18.4	15.3	18.4	18.4	21.5
80°	0.0	0.0	3.1	6.1	12.3	21.5	18.4	18.4	15.3	15.3
82.5°	0.0	0.0	3.1	9.2	12.3	27.6	27.6	24.5	12.3	9.2
85°	0.0	0.0	6.1	12.3	18.4	30.7	30.7	24.5	9.2	6.1
87.5°	0.0	0.0	6.1	9.2	15.3	21.5	30.7	24.5	9.2	3.1
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°
16563.8	0°	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8	16563.8
16511.7	2.5°	16594.4	16576.0	16637.3	16661.9	16695.6	16566.8	16487.1	16490.2	16343.1
16324.7	5°	16422.8	16425.8	16505.5	16499.4	16533.1	16462.6	16432.0	16379.9	16251.1
16088.7	7.5°	16205.2	16177.6	16254.2	16312.4	16226.6	16275.7	16205.2	16229.7	16153.0
15880.3	10°	16036.6	15972.2	16042.7	16082.6	16085.6	16036.6	15969.1	15904.8	15877.2
15555.4	12.5°	15662.6	15579.9	15699.4	15754.6	15745.4	15650.4	15573.7	15589.1	15500.2
14985.2	15°	15147.7	15150.8	15236.6	15288.7	15239.6	15218.2	15224.3	15187.5	15110.9
14197.5	17.5°	14360.0	14405.9	14632.8	14758.4	14786.0	14743.1	14721.6	14678.7	14602.1
12940.8	20°	13048.1	13324.0	13728.6	14117.8	14194.5	14182.2	14105.6	14087.2	14044.3
11696.4	22.5°	11895.6	12101.0	12570.0	13176.8	13489.5	13520.1	13428.2	13400.6	13354.6
10583.8	25°	10703.3	10924.0	11347.0	12006.0	12652.7	12784.5	12769.2	12686.4	12637.4
9596.8	27.5°	9698.0	9918.6	10301.8	10896.4	11589.1	12012.1	12052.0	11920.2	11917.1
8717.1	30°	8790.7	9094.1	9385.3	9869.6	10540.9	11175.3	11242.8	11150.8	11160.0
7911.0	32.5°	8079.6	8330.9	8579.2	8904.1	9461.9	10200.6	10464.2	10378.4	10344.7
7239.8	35°	7353.2	7524.8	7779.2	8076.5	8456.6	9189.2	9645.9	9581.5	9547.8
6332.5	37.5°	6525.6	6819.8	7003.7	7337.8	7635.2	8217.5	8861.2	8852.0	8781.5
5560.1	40°	5676.6	5986.1	6265.1	6602.2	6832.1	7294.9	8009.1	8006.0	8015.2
4760.1	42.5°	4907.2	5192.3	5529.4	5897.2	6117.9	6455.1	7221.4	7264.3	7316.4
4101.1	45°	4211.4	4468.9	4781.5	5229.1	5495.7	5688.8	6369.3	6565.4	6562.4
3512.6	47.5°	3586.2	3828.3	4091.9	4527.1	4867.4	5042.1	5606.1	5885.0	5866.6
2881.2	50°	3009.9	3224.5	3500.3	3816.0	4272.7	4426.0	4845.9	5213.7	5186.1
2295.8	52.5°	2421.4	2718.7	2951.7	3239.8	3721.0	3871.2	4196.1	4554.7	4533.3
1722.6	55°	1888.1	2176.2	2458.2	2706.5	3111.1	3334.8	3567.8	3935.6	3929.5
1348.6	57.5°	1428.3	1744.0	2010.7	2246.7	2568.5	2844.4	3031.4	3365.5	3408.4
922.6	60°	1057.5	1299.6	1587.7	1851.3	2105.7	2390.8	2516.4	2844.4	2862.8
631.4	62.5°	720.3	987.0	1268.9	1508.0	1698.1	1992.3	2105.7	2375.4	2409.2
404.6	65°	499.6	671.3	993.1	1164.7	1397.7	1649.0	1762.4	1977.0	2044.4
232.9	67.5°	331.0	478.2	775.5	931.8	1161.7	1333.3	1477.4	1652.1	1725.6
147.1	70°	180.8	352.5	554.8	735.6	934.9	1100.4	1241.4	1382.4	1446.7
67.4	72.5°	122.6	236.0	386.2	582.4	754.0	916.5	1042.1	1146.3	1149.4
39.8	75°	61.3	159.4	294.2	450.6	588.5	747.9	861.3	922.6	849.0
24.5	77.5°	36.8	116.5	239.1	361.7	478.2	603.8	668.2	701.9	582.4
18.4	80°	21.5	82.8	187.0	288.1	331.0	444.4	505.7	514.9	389.3
12.3	82.5°	15.3	61.3	147.1	211.5	202.3	312.6	380.1	367.8	248.3
9.2	85°	9.2	42.9	92.0	131.8	122.6	205.4	220.7	226.8	144.1
6.1	87.5°	6.1	24.5	49.0	70.5	58.2	88.9	88.9	107.3	70.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
16563.8
<i>16153.0</i>
16220.5
16024.3
15754.6
15423.6
15034.3
14568.4
13946.2
13342.4
12585.3
11911.0
11114.0
10347.8
9501.8
8839.7
8015.2
7288.8
6568.5
5872.7
5210.7
4579.3
3944.8
3390.0
2890.4
2415.3
2029.1
1716.5
1422.2
1121.8
793.9
560.9
364.7
229.9
131.8
61.3
0.0

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