

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: McGRAW-EDISON

Report Number: P943225

Luminaire Tested: **GALN-SB7C-835-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7C-835-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48948 lumens  
Efficiency: N/A  
Efficacy: 139.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

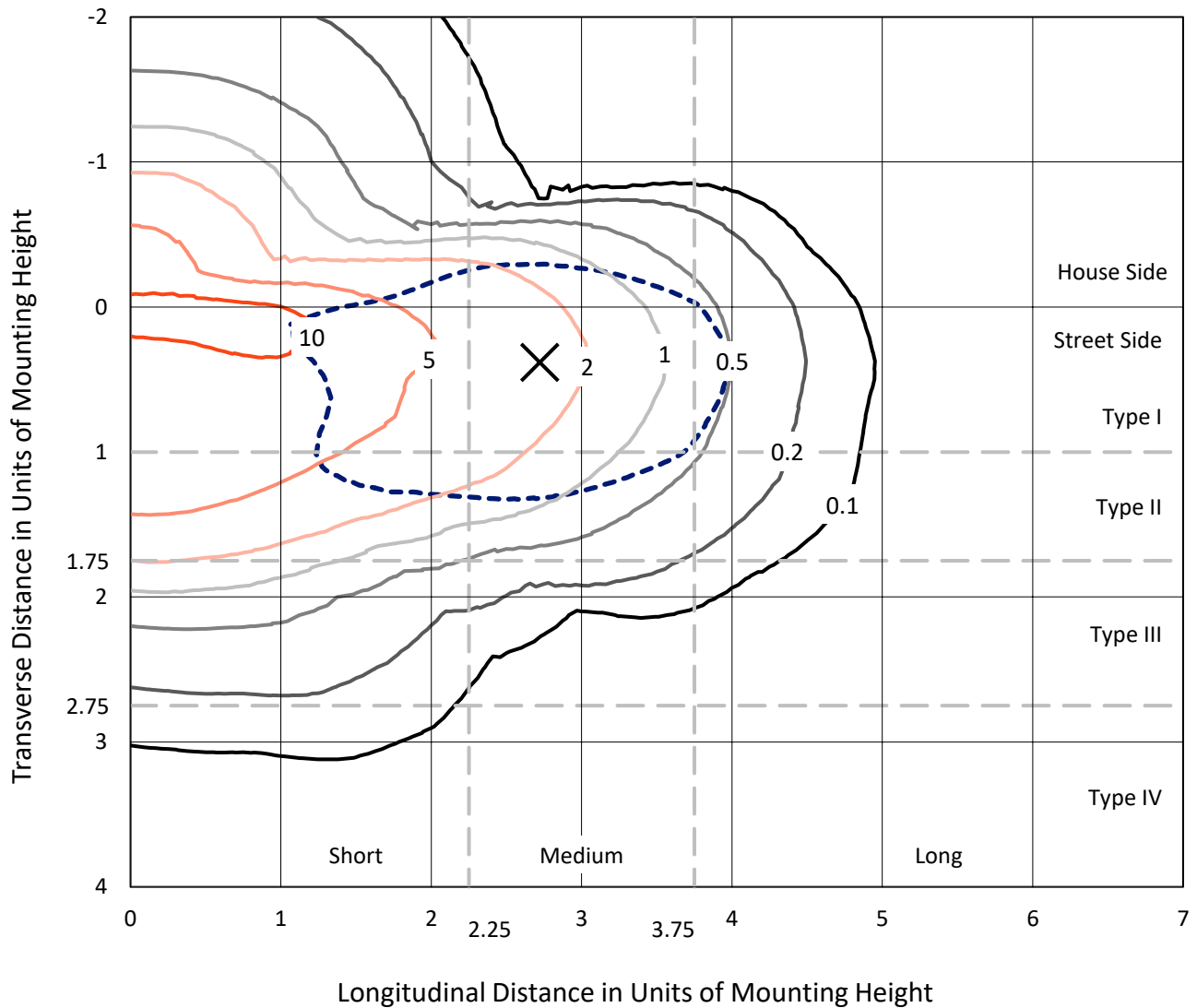
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

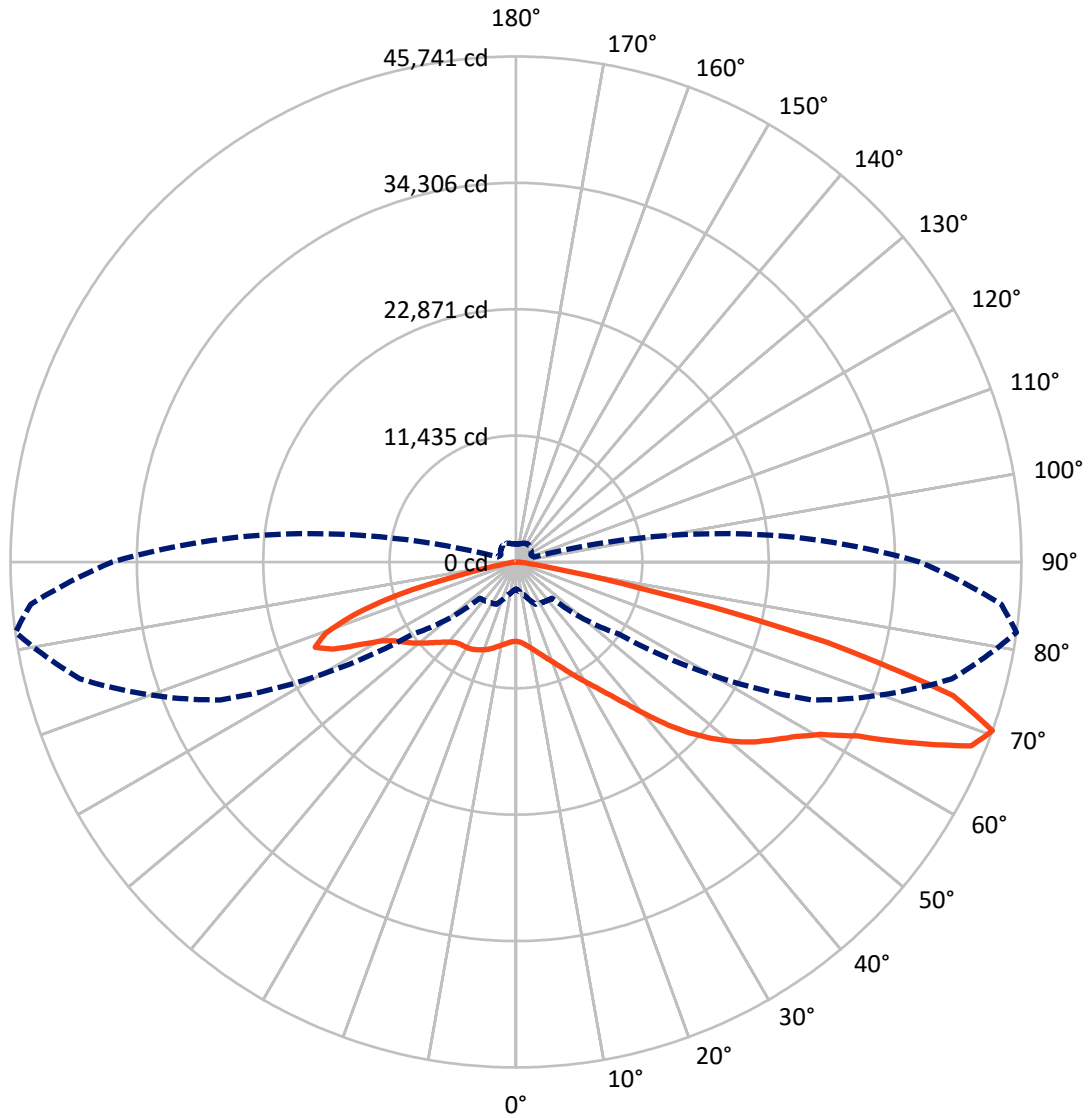
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12066.9	0.0	12066.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	36881.1	0.0	36881.1
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	48948.0	0.0	48948.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.6	1.4
10°-20°	1946.7	4.0
20°-30°	3256.7	6.7
30°-40°	5087.8	10.4
40°-50°	8102.8	16.6
50°-60°	11276.1	23.0
60°-70°	11795.3	24.1
70°-80°	6164.9	12.6
80°-90°	640.2	1.3
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°	48948.0	100.0
0°-180°	48948.0	100.0

**Coefficient of Utilization**



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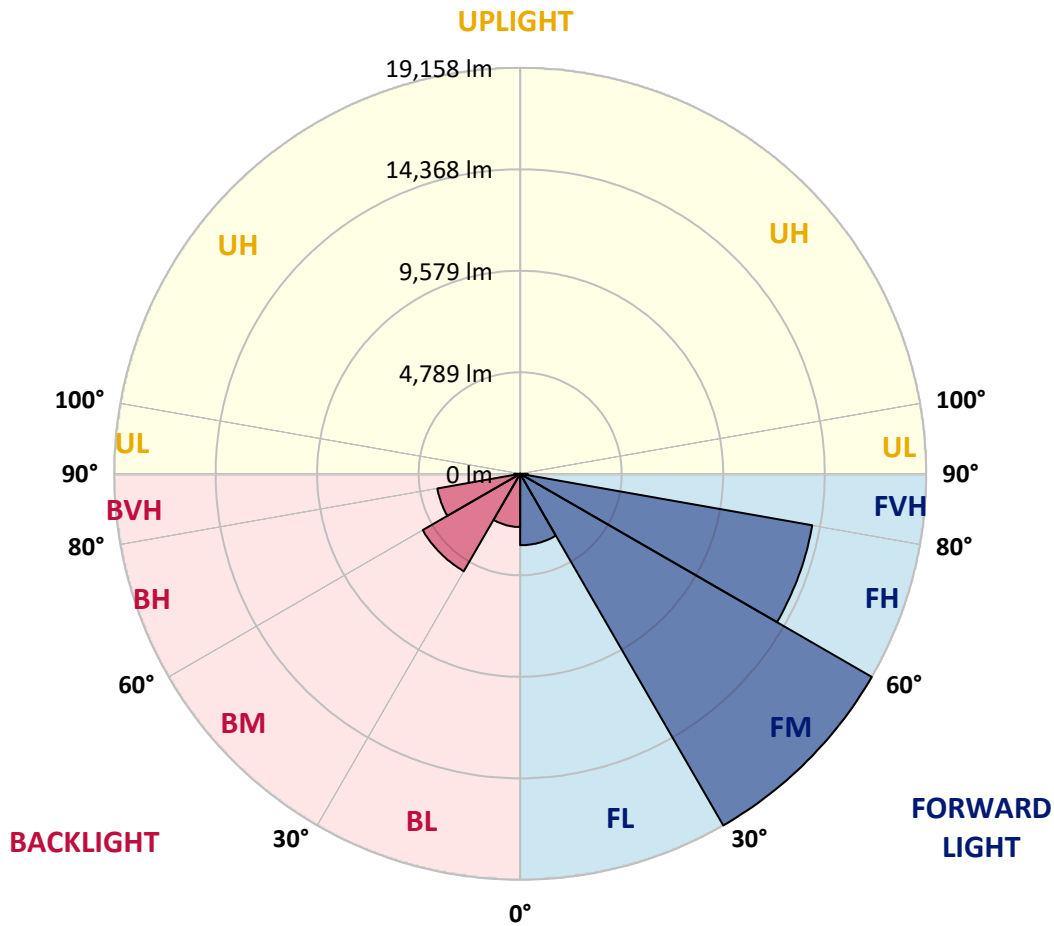
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3370.6	6.9			
FM (30°-60°)	19157.8	39.1			
FH (60°-80°)	13994.4	28.6			G5
FVH (80°-90°)	358.4	0.7			G3/500
BL (0°-30°)	2510.4	5.1	B4/5000		
BM (30°-60°)	5309.0	10.8	B4/8500		
BH (60°-80°)	3965.8	8.1	B4/5000		G4/5000
BVH (80°-90°)	281.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4
2.5°	7347.8	7389.4	7376.4	7363.4	7363.4	7345.2	7342.6	7316.6	7295.9	7262.1
5°	7441.3	7485.5	7480.3	7490.7	7524.4	7532.2	7540.0	7524.4	7482.9	7441.3
7.5°	7358.2	7407.6	7423.1	7485.5	7589.4	7682.9	7753.0	7781.6	7742.6	7682.9
10°	7077.7	7132.2	7186.8	7334.8	7519.2	7740.0	7927.0	8038.7	8030.9	7973.8
12.5°	6508.9	6566.0	6682.9	6971.2	7308.9	7698.4	8046.5	8280.2	8360.8	8319.2
15°	6054.3	6103.7	6192.0	6488.1	6927.0	7519.2	8090.6	8545.2	8750.4	8727.0
17.5°	6041.4	6062.1	6116.7	6256.9	6594.6	7238.7	8043.9	8804.9	9197.1	9194.5
20°	6269.9	6277.7	6308.9	6337.5	6529.7	7025.7	7924.4	9020.5	9698.4	9698.4
22.5°	6586.8	6581.6	6612.8	6586.8	6680.3	7007.6	7849.1	9210.1	10256.8	10298.4
25°	7062.1	7036.1	7028.3	6968.6	6986.8	7176.4	7932.2	9425.7	10919.1	11004.8
27.5°	7695.9	7654.3	7625.7	7488.1	7441.3	7524.4	8186.7	9685.4	11656.8	11804.8
30°	8521.8	8446.5	8404.9	8166.0	7997.1	8010.1	8571.1	10030.8	12428.2	12667.1
32.5°	9649.0	9532.2	9420.5	9028.3	8719.2	8617.9	9067.2	10508.7	13264.5	13646.3
35°	10911.3	10817.8	10698.4	10093.2	9617.9	9384.1	9737.3	11176.3	14243.7	14848.9
37.5°	12126.9	12046.4	12103.5	11287.9	10675.0	10334.7	10615.2	12072.3	15451.4	16344.9
40°	13384.0	13321.6	13329.4	12550.2	11836.0	11454.2	11680.1	13197.0	16835.8	18124.1
42.5°	14750.2	14703.4	14547.6	13856.7	13054.1	12698.3	12906.1	14495.6	18321.5	20150.0
45°	16280.0	16251.4	16106.0	15313.8	14394.3	13994.3	14274.9	15929.3	19814.9	22056.4
47.5°	17602.0	17625.4	17607.2	16939.7	15986.5	15399.5	15734.6	17425.4	21204.5	23848.6
50°	18238.4	18360.4	18539.7	18331.9	17739.7	17142.3	17207.2	18869.5	22529.1	25529.0
52.5°	17905.9	18137.1	18625.4	18957.8	19186.4	19061.7	18887.7	20303.2	23775.8	27045.9
55°	16667.0	16991.7	17802.0	18604.6	19770.8	20677.2	20905.8	21892.8	24991.4	28380.9
57.5°	14409.9	14937.2	15664.4	17287.7	19251.3	21459.0	23259.0	24097.9	26279.7	29806.8
60°	10539.9	11246.4	12150.3	14565.8	17433.2	21040.9	25261.5	27484.8	28110.8	31653.5
62.5°	6745.2	7181.6	8012.7	10288.0	13584.0	18898.1	25874.5	31718.4	31214.6	34682.0
65°	4618.0	4898.5	5659.6	6937.4	8781.5	14067.1	24233.0	34892.4	36144.3	39481.8
67.5°	3355.7	3568.7	4218.0	5337.5	5721.9	8324.4	18804.6	34746.9	40936.3	44427.1
70°	2446.7	2597.3	3142.8	4218.0	4402.5	4631.0	11391.8	29536.7	40832.4	45741.4
72.5°	1812.9	1916.8	2283.0	3272.6	3563.5	3127.2	5638.8	21466.8	35087.2	41372.7
75°	1311.6	1389.6	1659.7	2503.8	2851.9	2381.7	2812.9	12545.0	24474.5	29102.9
77.5°	1002.6	1062.3	1238.9	1833.7	2283.0	1787.0	1745.4	5771.2	11604.8	11662.0
80°	805.2	844.1	940.2	1290.9	1750.6	1337.6	1137.6	2329.8	3667.4	3103.8
82.5°	592.2	657.1	794.8	906.5	1251.9	922.0	693.5	1176.6	1394.8	1200.0
85°	337.7	381.8	480.5	649.3	800.0	563.6	397.4	522.1	649.3	532.5
87.5°	119.5	155.8	168.8	254.5	348.0	233.8	153.2	150.6	213.0	158.4
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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7176.4	0°	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4
7254.3	2.5°	7228.3	7215.3	7163.4	7093.3	7020.5	6950.4	6927.0	6877.7	6843.9	6825.8
7423.1	5°	7373.8	7332.2	7210.2	7054.3	6890.7	6714.1	6589.4	6475.1	6392.0	6314.1
7654.3	7.5°	7581.6	7508.8	7298.5	7025.7	6734.8	6441.3	6223.2	6056.9	5945.3	5872.5
7924.4	10°	7823.1	7711.4	7389.4	6981.6	6532.3	6111.5	5854.4	5711.5	5641.4	5602.4
8233.5	12.5°	8101.0	7942.6	7482.9	6880.3	6223.2	5742.7	5566.1	5524.5	5527.1	5529.7
8623.1	15°	8443.9	8223.1	7558.2	6659.5	5820.6	5459.6	5428.4	5495.9	5566.1	5599.8
9064.6	17.5°	8830.9	8519.2	7571.2	6295.9	5425.8	5277.7	5376.4	5521.9	5628.4	5675.1
9558.1	20°	9246.5	8820.5	7477.7	5781.6	5101.1	5129.7	5306.3	5493.3	5610.2	5669.9
10121.7	22.5°	9721.8	9142.6	7254.3	5241.4	4836.2	4968.7	5176.5	5358.3	5480.3	5540.1
10784.1	25°	10264.6	9503.6	6903.7	4786.9	4607.6	4786.9	4994.6	5145.3	5244.0	5298.5
11524.3	27.5°	10867.2	9880.2	6436.2	4425.8	4407.6	4599.8	4771.3	4888.2	4940.1	4981.7
12311.3	30°	11472.4	10223.0	5869.9	4153.1	4233.6	4415.4	4537.5	4589.5	4605.0	4612.8
13189.2	32.5°	12126.9	10519.1	5275.2	3927.1	4067.4	4236.2	4309.0	4332.3	4259.6	4210.3
14254.1	35°	12919.1	10836.0	4693.4	3747.9	3903.8	4049.2	4072.6	4051.8	3966.1	3864.8
15589.1	37.5°	13898.2	11230.8	4228.4	3620.7	3750.5	3846.6	3818.1	3812.9	3820.7	3701.2
17194.2	40°	15098.2	11745.1	3888.2	3522.0	3625.9	3646.6	3566.1	3610.3	3649.2	3467.4
18955.2	42.5°	16430.6	12365.8	3672.6	3454.4	3522.0	3472.6	3347.9	3397.3	3392.1	3153.1
20724.0	45°	17789.0	13041.1	3597.3	3405.1	3425.9	3327.2	3189.5	3202.5	3093.4	2877.8
22420.0	47.5°	19139.6	13765.8	3644.0	3363.5	3306.4	3194.7	3088.2	3031.1	2870.0	2709.0
24046.0	50°	20464.3	14526.8	3815.5	3280.4	3142.8	3077.8	2999.9	2898.6	2727.2	2589.5
25583.6	52.5°	21692.8	15293.0	4007.7	3142.8	2937.6	2976.5	2927.2	2810.3	2641.5	2501.2
27038.1	55°	22856.4	16059.2	4083.0	2953.2	2745.4	2888.2	2859.6	2644.1	2441.5	2327.2
28560.1	57.5°	24123.9	16981.3	3999.9	2711.6	2589.5	2786.9	2677.8	2438.9	2322.0	2236.3
30541.9	60°	25879.7	18428.0	3820.7	2412.9	2441.5	2636.3	2449.3	2350.6	2223.3	2127.2
33513.2	62.5°	28796.5	21126.6	3532.4	2116.8	2267.5	2412.9	2340.2	2241.5	2111.6	2018.1
38593.5	65°	33108.0	24877.1	2989.5	1885.7	2072.7	2194.7	2223.3	2124.6	1989.5	1890.8
43045.3	67.5°	36744.3	27230.3	2262.3	1693.5	1872.7	2018.1	2098.6	2002.5	1859.7	1763.6
44086.9	70°	36544.3	25521.2	1727.2	1503.8	1696.0	1844.1	1948.0	1872.7	1719.4	1628.5
40045.4	72.5°	32458.7	21350.0	1397.4	1311.6	1516.8	1662.3	1787.0	1729.8	1574.0	1485.7
29336.7	75°	23846.0	15155.3	1116.8	1116.8	1293.5	1472.7	1610.3	1574.0	1431.1	1368.8
12316.5	77.5°	10051.6	6358.2	875.3	927.2	1075.3	1264.9	1436.3	1449.3	1324.6	1402.6
3257.0	80°	2672.6	1753.2	667.5	729.8	844.1	1044.1	1249.3	1244.1	1109.1	1036.3
1210.4	82.5°	1018.1	690.9	475.3	514.3	610.4	800.0	989.6	1020.7	885.7	766.2
475.3	85°	392.2	296.1	293.5	309.1	355.8	529.9	748.0	774.0	667.5	566.2
132.5	87.5°	101.3	88.3	109.1	103.9	163.6	283.1	428.6	444.1	407.8	236.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
7176.4
6846.5
6345.2
5888.1
5612.8
5534.9
5597.2
5685.5
5685.5
5555.7
5314.1
4997.2
4631.0
4225.8
3870.0
3709.0
3472.6
3150.5
2885.6
2709.0
2579.1
2503.8
2316.8
2228.5
2122.0
2018.1
1896.0
1766.2
1636.3
1485.7
1350.6
1272.7
963.6
766.2
584.4
337.7
0.0

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