

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: P955726

Luminaire Tested: **GALN-SB8C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55862 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 III - Medium
BUG Rating: B4 - U0 - G5

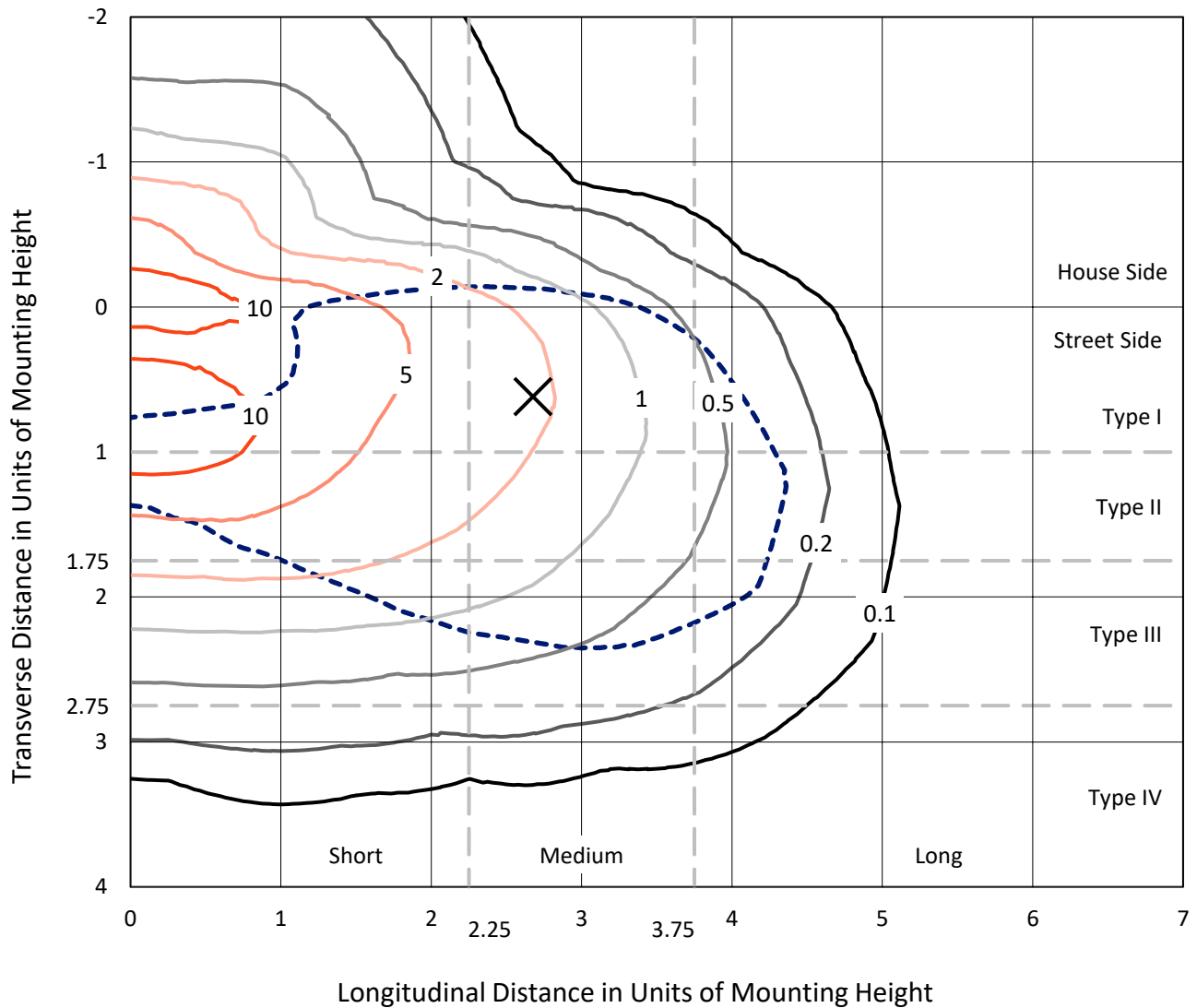
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

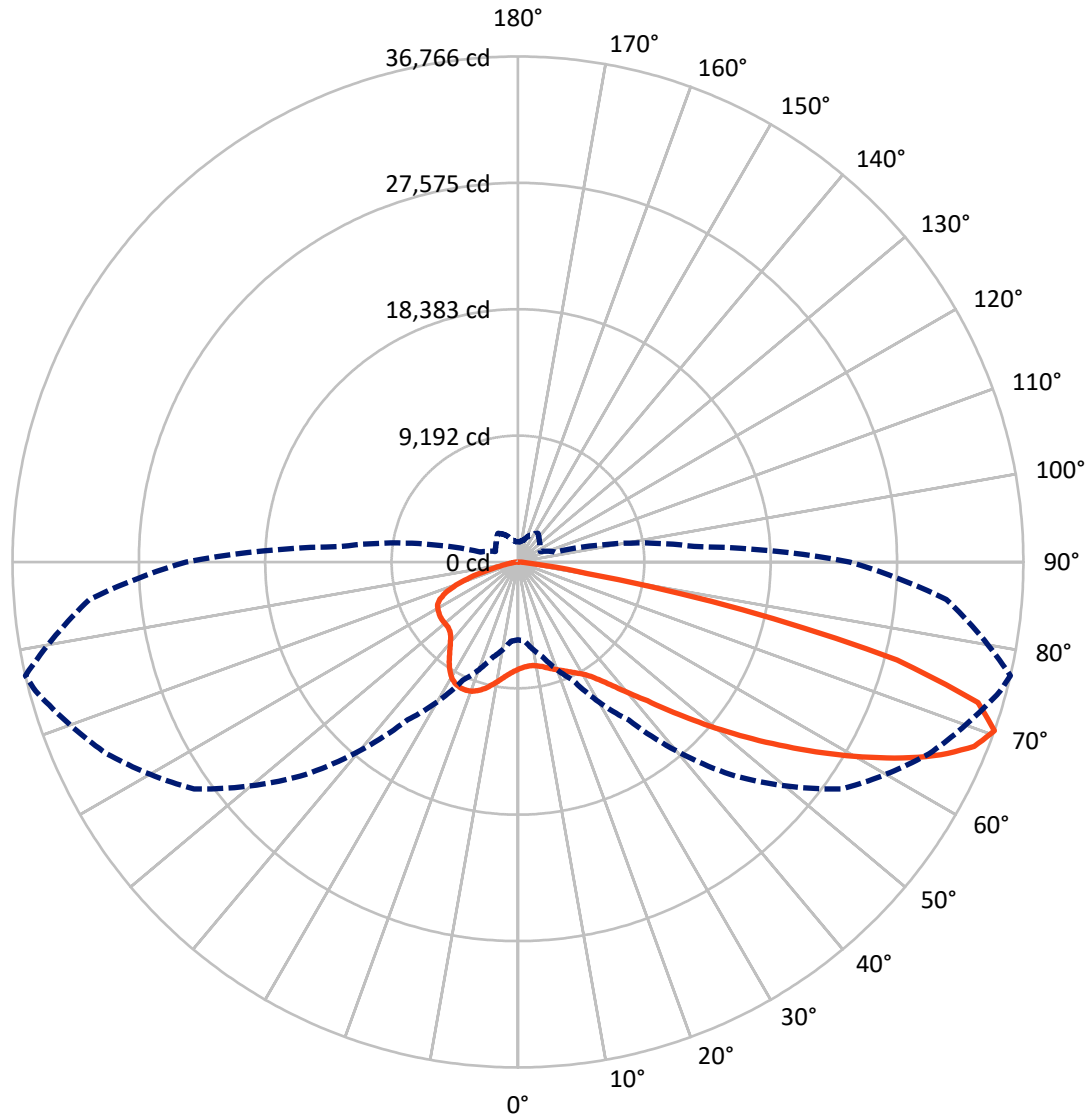
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12232.9	0.0	12232.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	43629.1	0.0	43629.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	55862.0	0.0	55862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.3	1.3
10°-20°	2145.1	3.8
20°-30°	3668.5	6.6
30°-40°	5899.3	10.6
40°-50°	9210.4	16.5
50°-60°	12302.9	22.0
60°-70°	13112.9	23.5
70°-80°	8072.3	14.5
80°-90°	707.3	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°	55862.0	100.0
0°-180°	55862.0	100.0



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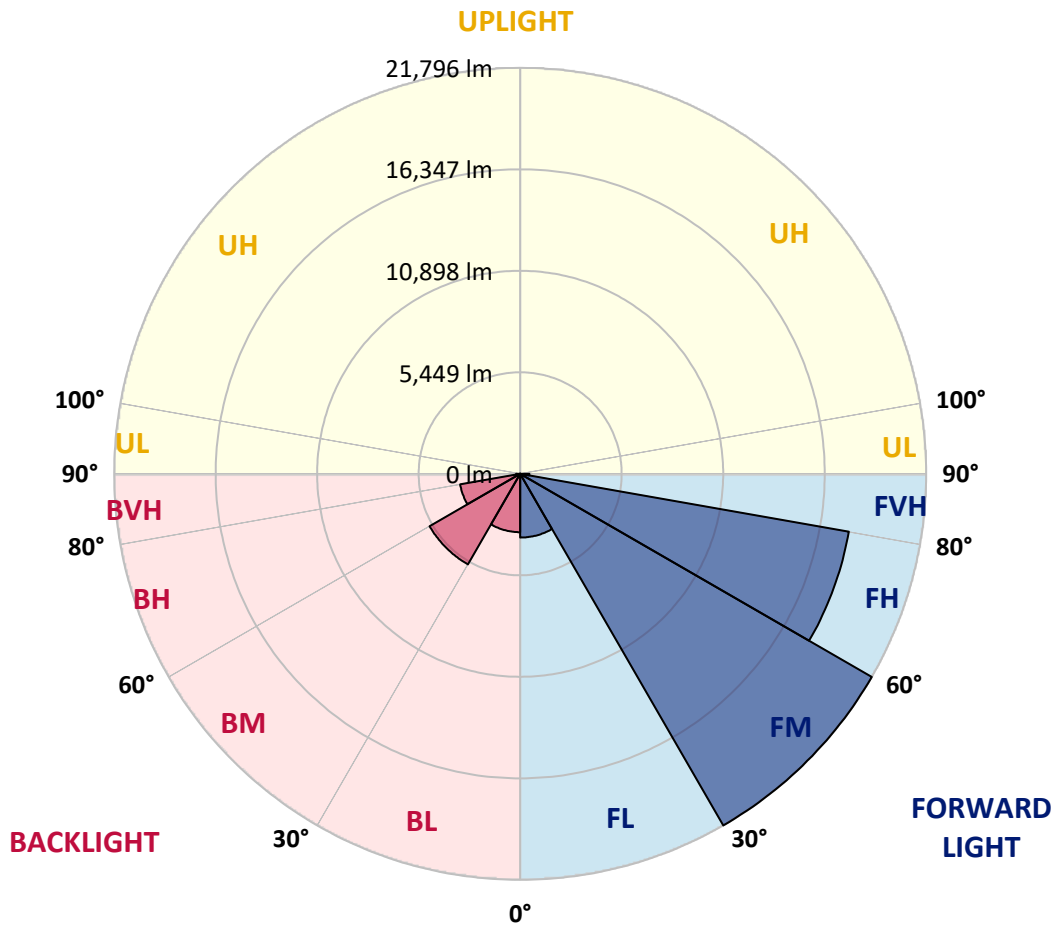
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3422.4	6.1			
FM (30°-60°)	21796.1	39.0			
FH (60°-80°)	17915.9	32.1			G5
FVH (80°-90°)	494.6	0.9			G3/500
BL (0°-30°)	3134.5	5.6	B4/5000		
BM (30°-60°)	5616.4	10.1	B4/8500		
BH (60°-80°)	3269.3	5.9	B4/5000		G4/5000
BVH (80°-90°)	212.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3
2.5°	7183.9	7181.0	7218.2	7229.6	7298.3	7346.9	7438.5	7535.8	7661.7	7676.0
5°	6769.0	6769.0	6811.9	6857.7	6946.4	7043.7	7183.9	7352.7	7570.1	7604.4
7.5°	6417.1	6440.0	6477.2	6565.9	6668.9	6809.1	7023.7	7264.0	7550.1	7604.4
10°	6133.9	6159.6	6205.4	6276.9	6431.4	6626.0	6906.4	7215.3	7598.7	7684.5
12.5°	6045.2	6071.0	6096.7	6151.1	6294.1	6523.0	6857.7	7238.2	7716.0	7801.8
15°	6251.2	6282.7	6262.6	6248.3	6322.7	6531.6	6880.6	7321.2	7861.9	7984.9
17.5°	6726.1	6737.6	6691.8	6557.3	6545.9	6657.5	6989.3	7435.6	8045.0	8179.5
20°	7492.9	7472.8	7378.4	7112.3	6960.7	6937.8	7175.3	7607.3	8233.8	8376.9
22.5°	8534.2	8511.4	8322.5	7902.0	7564.4	7341.2	7444.2	7830.5	8445.6	8605.8
25°	9833.1	9801.7	9524.1	8951.9	8428.4	7876.2	7810.4	8125.1	8705.9	8854.7
27.5°	11349.4	11323.7	11023.3	10268.0	9512.7	8608.6	8265.3	8471.3	8977.7	9146.5
30°	12980.2	13054.6	12522.4	11709.9	10754.4	9564.2	8877.6	8897.6	9329.6	9481.2
32.5°	14897.0	15025.8	14384.9	13355.0	12050.4	10602.7	9650.0	9492.7	9841.7	9967.6
35°	16796.7	16942.6	16410.5	15271.8	13769.8	11827.2	10456.8	10176.4	10522.6	10659.9
37.5°	18438.9	18633.4	18358.8	17368.9	15609.4	13303.5	11509.6	10980.4	11360.9	11532.5
40°	19734.9	20032.5	20012.4	19394.5	17778.0	15094.4	12845.7	11973.1	12402.3	12588.2
42.5°	20787.7	21045.2	21268.4	21236.9	20041.0	17128.6	14416.4	13263.4	13589.6	13804.1
45°	21514.4	21789.1	22269.7	22787.6	22218.2	19305.8	16215.9	14794.0	15091.6	15414.9
47.5°	22163.9	22475.7	23099.4	23920.5	24066.4	21491.5	18187.1	16576.4	16848.2	17182.9
50°	22221.1	22490.0	23457.0	24621.4	25379.6	23591.5	20304.2	18576.2	18830.8	19188.5
52.5°	20839.2	21262.7	22950.6	24601.4	25983.3	25348.1	22407.0	20656.1	20942.2	21371.4
55°	16175.9	16796.7	21465.8	23834.7	25768.7	26483.9	24406.9	22867.7	23233.9	23683.0
57.5°	13932.9	14204.7	17039.9	22438.5	24790.2	26778.6	26094.8	25102.1	25691.4	26183.5
60°	12522.4	12748.4	14425.0	20267.0	23502.8	26312.3	27399.4	27184.9	28203.4	28789.9
62.5°	11011.8	11226.4	12751.3	16922.6	21854.9	25536.9	28223.4	29107.4	30778.2	31419.1
65°	9512.7	9695.8	11157.7	14219.0	19760.7	24761.6	28649.7	30769.6	33161.4	33825.1
67.5°	7841.9	7993.5	9375.4	11996.0	17214.4	23700.2	28861.4	32077.1	35235.6	35804.9
70°	5659.0	5776.3	7203.9	9486.9	14018.7	21874.9	28775.5	33004.0	36311.3	36766.2
72.5°	2675.0	2780.9	4457.4	6159.6	9901.8	18321.6	27038.9	32268.8	35218.4	34992.4
75°	1427.6	1519.2	2560.6	3378.8	5229.8	12559.6	22126.7	27797.1	29573.8	28475.1
77.5°	967.0	1038.5	1585.0	2028.4	2388.9	5962.2	14221.8	19245.7	18516.1	16702.3
80°	766.7	841.1	1298.9	1373.3	1155.8	2154.3	5876.4	8909.0	6400.0	5118.3
82.5°	589.4	672.3	1092.9	995.6	629.4	884.0	1710.9	2818.0	1639.3	1247.4
85°	360.5	449.2	858.3	635.1	354.8	403.4	580.8	783.9	500.7	417.7
87.5°	183.1	257.5	434.9	231.7	160.2	94.4	154.5	154.5	131.6	114.4
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°
7793.3	0°	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3	7793.3
7753.2	2.5°	7821.9	7879.1	7976.4	8067.9	8139.4	8208.1	8276.8	8314.0	8325.4	8371.2
7796.1	5°	7913.4	8019.3	8208.1	8385.5	8497.1	8565.7	8614.4	8643.0	8648.7	8663.0
7913.4	7.5°	8082.2	8251.0	8514.2	8691.6	8774.6	8768.8	8748.8	8677.3	8648.7	8622.9
8085.1	10°	8319.7	8542.8	8866.1	8989.1	8937.6	8800.3	8622.9	8414.1	8316.8	8222.4
8319.7	12.5°	8614.4	8897.6	9215.2	9209.4	8954.8	8602.9	8190.9	7870.5	7667.4	7521.5
8608.6	15°	8972.0	9298.1	9541.3	9346.8	8788.9	8156.6	7552.9	7135.2	6952.1	6791.9
8900.5	17.5°	9341.0	9690.1	9801.7	9303.8	8371.2	7495.7	6811.9	6482.9	6302.7	6216.9
9215.2	20°	9701.5	10047.7	9956.1	9057.8	7736.0	6746.1	6136.8	5956.5	5919.3	5939.4
9521.3	22.5°	10082.0	10391.0	9987.6	8582.9	6926.4	5979.4	5644.7	5650.4	5733.4	5793.4
9841.7	25°	10471.1	10680.0	9904.6	7896.3	6056.7	5415.8	5332.8	5424.4	5587.5	5704.8
10202.2	27.5°	10845.9	10937.5	9724.4	7046.5	5309.9	5012.4	5026.7	5215.5	5461.6	5624.6
10639.9	30°	11269.3	11166.3	9378.2	6091.0	4792.1	4666.2	4786.4	5006.7	5252.7	5398.6
11192.1	32.5°	11747.1	11363.7	8828.9	5206.9	4425.9	4388.7	4586.1	4729.2	4837.9	4880.8
11924.5	35°	12342.2	11641.3	8125.1	4586.1	4096.9	4185.6	4374.4	4302.9	4260.0	4237.1
12908.7	37.5°	13114.6	12016.0	7301.2	4182.7	3830.8	4039.7	4116.9	3893.8	3725.0	3642.0
14101.7	40°	14044.5	12565.3	6508.7	3870.9	3662.0	3913.8	3779.3	3510.4	3295.8	3178.5
15443.5	42.5°	15077.3	13140.4	5842.1	3636.3	3567.6	3810.8	3530.4	3210.0	2863.8	2826.6
17042.7	45°	16161.6	13732.6	5387.2	3456.0	3521.8	3722.1	3387.4	2869.5	2623.5	2775.1
18647.7	47.5°	17245.9	14276.2	5112.5	3321.6	3499.0	3622.0	3261.5	2680.7	2506.2	2726.5
20367.2	50°	18453.2	14762.6	4989.5	3224.3	3473.2	3581.9	3072.7	2632.1	2383.2	2529.1
22146.7	52.5°	19651.9	15140.2	4898.0	3127.0	3436.0	3550.5	2981.1	2574.9	2234.4	2243.0
23937.7	55°	20847.8	15386.2	4797.8	2998.3	3353.0	3481.8	2972.5	2511.9	2122.8	2082.8
25831.6	57.5°	22123.8	15526.4	4674.8	2855.2	3210.0	3307.3	2964.0	2463.3	2088.5	2022.7
27768.5	60°	23422.7	15732.4	4514.6	2680.7	3018.3	3098.4	2943.9	2446.1	2068.5	1956.9
29593.8	62.5°	24587.1	15804.0	4322.9	2514.8	2772.3	2892.4	2901.0	2431.8	2014.1	1822.4
31110.1	65°	25351.0	15495.0	3988.2	2326.0	2506.2	2680.7	2818.0	2383.2	1916.8	1725.2
31859.7	67.5°	25319.5	14613.8	3464.6	2082.8	2248.7	2446.1	2697.9	2300.2	1799.5	1605.0
31293.2	70°	24140.8	12874.3	2800.9	1799.5	1965.5	2194.4	2543.4	2177.2	1659.4	1473.4
27825.7	72.5°	20704.8	10076.3	2034.1	1467.7	1636.5	1934.0	2343.1	2028.4	1516.3	1356.1
20564.6	75°	14791.2	6377.1	1379.0	1127.2	1273.1	1639.3	2094.2	1853.9	1384.7	1361.8
10299.5	77.5°	7555.8	3046.9	912.6	824.0	886.9	1293.2	1759.5	1656.5	1404.7	1124.4
2929.6	80°	2457.6	1124.4	575.1	560.7	589.4	861.1	1361.8	1359.0	1064.3	763.9
709.5	82.5°	783.9	483.5	374.8	360.5	346.2	540.7	949.8	1075.7	718.1	483.5
254.6	85°	311.8	289.0	220.3	203.1	145.9	254.6	497.8	715.2	535.0	349.0
65.8	87.5°	114.4	114.4	60.1	42.9	31.5	85.8	134.5	214.6	306.1	180.2
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>
7793.3
8396.9
8685.9
8628.7
8193.8
7487.1
6774.8
6242.6
5930.8
5807.8
5736.2
5664.7
5433.0
4903.7
4260.0
3662.0
3187.1
2863.8
2855.2
2829.5
2637.8
2303.1
2111.4
2031.3
1965.5
1822.4
1725.2
1613.6
1490.6
1347.5
1284.6
1001.3
675.2
480.6
357.6
177.4
0.0

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