

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: P957154

Luminaire Tested: **GALN-SB9C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957154
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-SB9C-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 62923 lumens
Efficiency: N/A
Efficacy: 139.9 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

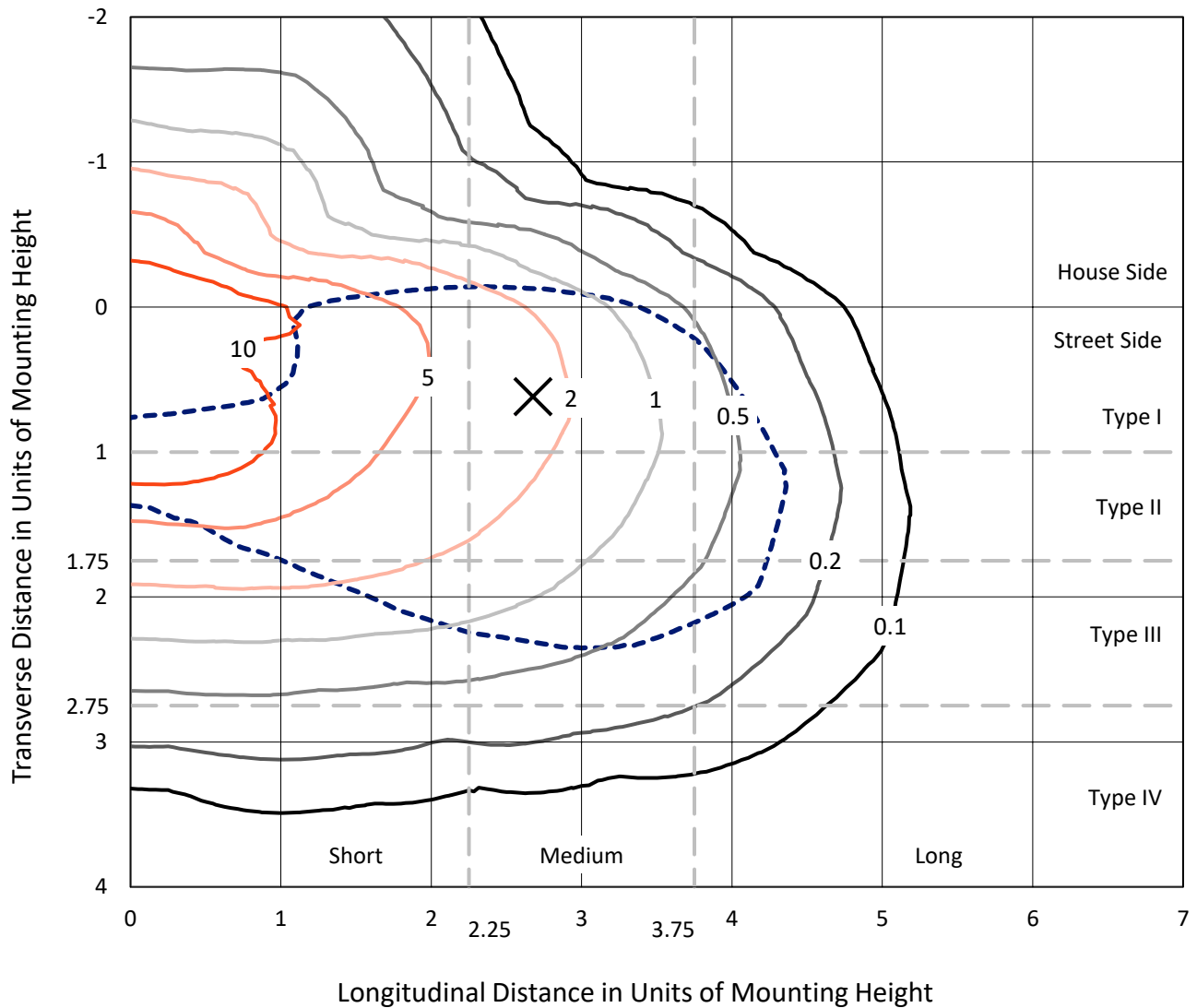
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

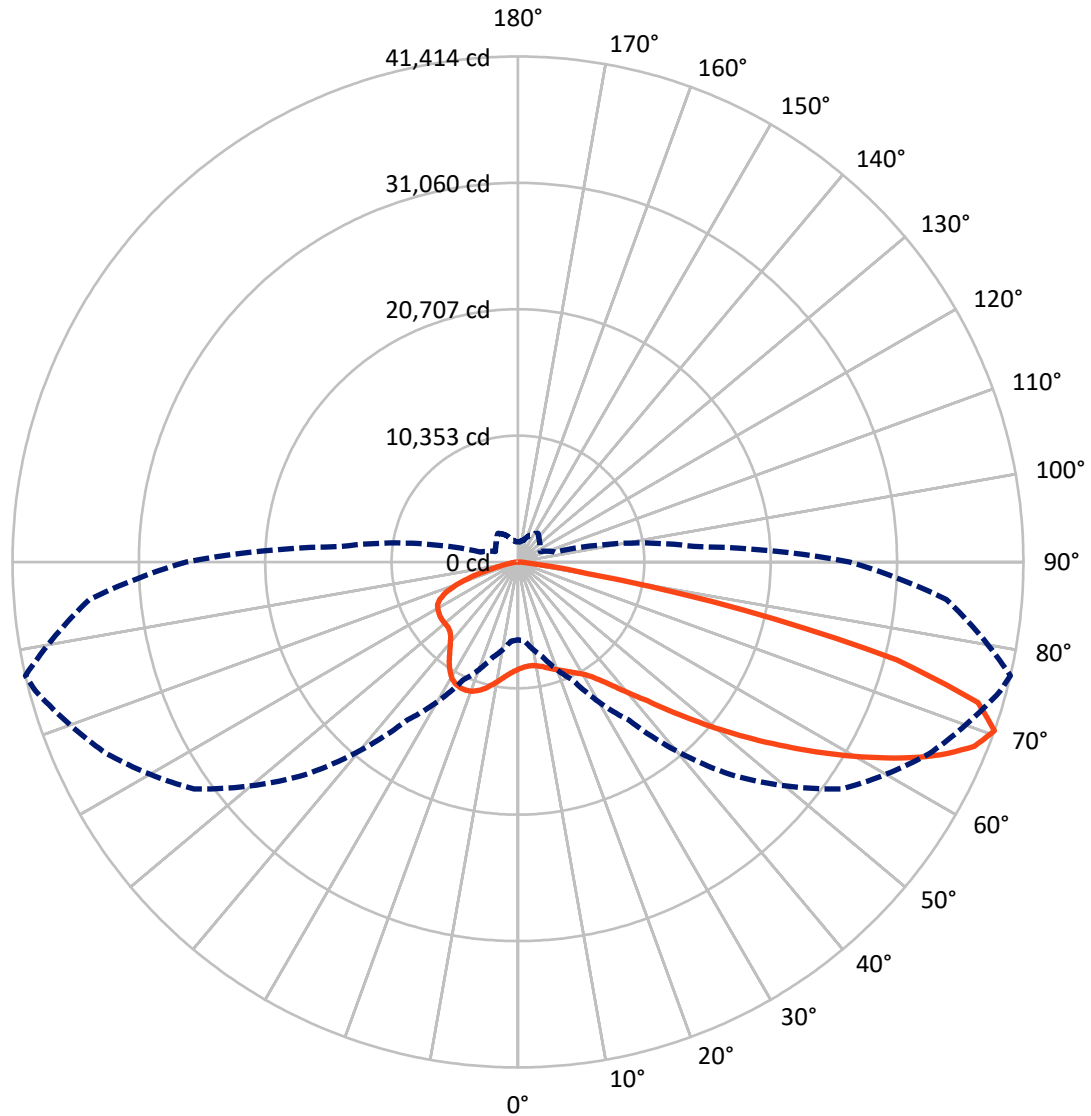
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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	13779.2	0.0	13779.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	49143.8	0.0	49143.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	62923.0	0.0	62923.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.2	1.3
10°-20°	2416.3	3.8
20°-30°	4132.2	6.6
30°-40°	6645.0	10.6
40°-50°	10374.6	16.5
50°-60°	13858.0	22.0
60°-70°	14770.4	23.5
70°-80°	9092.6	14.5
80°-90°	796.8	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°	62923.0	100.0
0°-180°	62923.0	100.0



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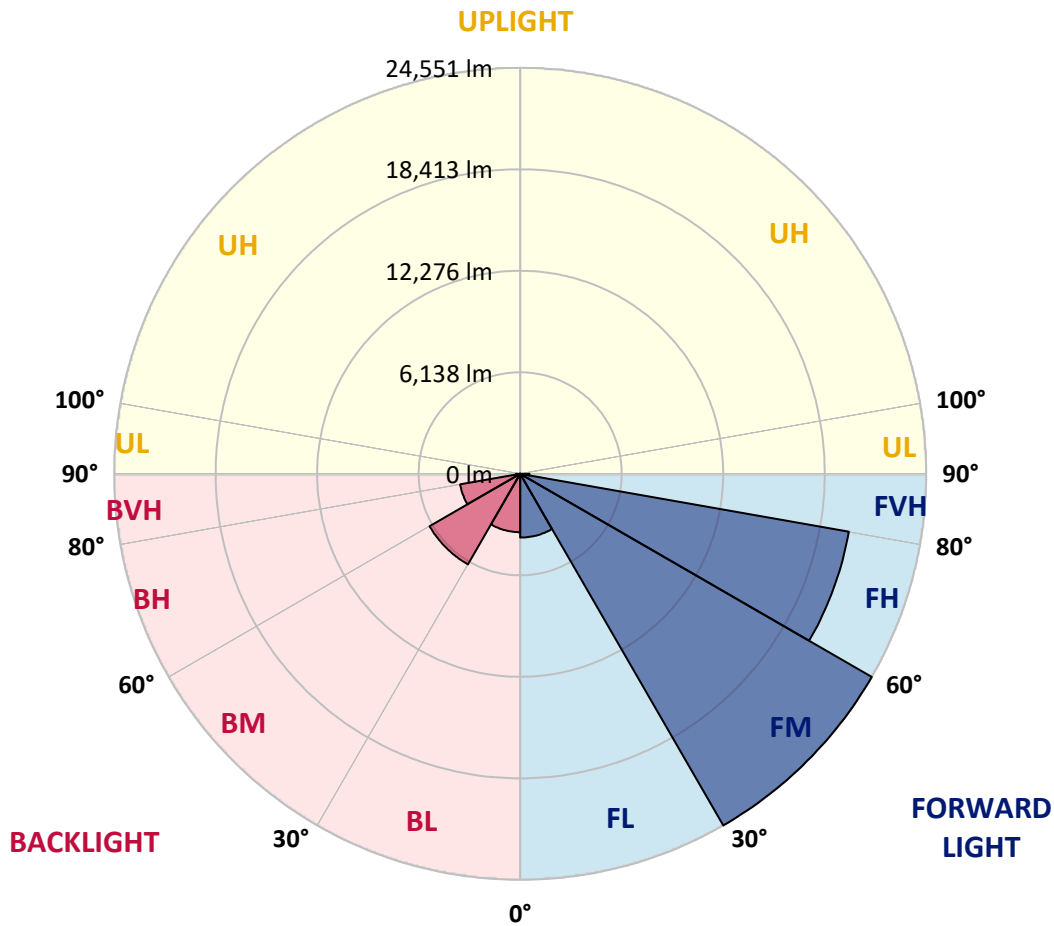
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3855.0	6.1			
FM (30°-60°)	24551.2	39.0			
FH (60°-80°)	20180.5	32.1			G5
FVH (80°-90°)	557.1	0.9			G4/750
BL (0°-30°)	3530.7	5.6	B4/5000		
BM (30°-60°)	6326.3	10.1	B4/8500		
BH (60°-80°)	3682.6	5.9	B4/5000		G4/5000
BVH (80°-90°)	239.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3
2.5°	8091.9	8088.7	8130.6	8143.5	8220.8	8275.6	8378.7	8488.3	8630.1	8646.2
5°	7624.6	7624.6	7673.0	7724.5	7824.4	7934.0	8091.9	8282.1	8527.0	8565.6
7.5°	7228.3	7254.0	7295.9	7395.8	7511.9	7669.8	7911.5	8182.2	8504.4	8565.6
10°	6909.2	6938.2	6989.8	7070.4	7244.4	7463.5	7779.3	8127.4	8559.2	8655.9
12.5°	6809.3	6838.3	6867.3	6928.6	7089.7	7347.5	7724.5	8153.2	8691.3	8788.0
15°	7041.4	7076.8	7054.2	7038.1	7121.9	7357.2	7750.3	8246.6	8855.7	8994.2
17.5°	7576.3	7589.2	7537.6	7386.2	7373.3	7499.0	7872.8	8375.5	9061.9	9213.4
20°	8440.0	8417.4	8311.1	8011.4	7840.6	7814.8	8082.3	8568.9	9274.6	9435.7
22.5°	9613.0	9587.2	9374.5	8900.8	8520.5	8269.2	8385.2	8820.2	9513.1	9693.5
25°	11076.0	11040.6	10728.0	10083.5	9493.7	8871.8	8797.7	9152.2	9806.3	9973.9
27.5°	12784.0	12755.0	12416.6	11565.9	10715.1	9696.8	9310.1	9542.1	10112.5	10302.6
30°	14620.9	14704.7	14105.3	13190.1	12113.7	10773.1	9999.7	10022.3	10508.9	10679.7
32.5°	16780.0	16925.0	16203.2	15043.0	13573.5	11942.9	10869.8	10692.6	11085.7	11227.5
35°	18919.8	19084.2	18484.8	17202.2	15510.3	13322.2	11778.6	11462.7	11852.7	12007.4
37.5°	20769.6	20988.7	20679.4	19564.3	17582.4	14985.0	12964.5	12368.3	12796.9	12990.3
40°	22229.4	22564.6	22542.0	21845.9	20025.2	17002.4	14469.4	13486.5	13969.9	14179.4
42.5°	23415.3	23705.4	23956.7	23921.3	22574.2	19293.6	16238.6	14939.9	15307.3	15549.0
45°	24233.9	24543.2	25084.6	25667.9	25026.6	21746.0	18265.6	16664.0	16999.2	17363.3
47.5°	24965.4	25316.7	26019.2	26944.1	27108.4	24208.1	20486.0	18671.7	18977.8	19354.9
50°	25029.8	25332.8	26422.0	27733.6	28587.6	26573.5	22870.7	20924.3	21211.1	21613.9
52.5°	23473.3	23950.3	25851.6	27711.0	29267.6	28552.1	25239.3	23267.1	23589.4	24072.7
55°	18220.5	18919.8	24179.1	26847.4	29025.9	29831.5	27491.9	25758.2	26170.6	26676.6
57.5°	15694.0	16000.2	19193.7	25274.8	27923.7	30163.4	29393.2	28275.0	28938.8	29493.1
60°	14105.3	14359.9	16248.3	22828.8	26473.6	29638.2	30862.7	30621.0	31768.3	32428.9
62.5°	12403.7	12645.4	14363.1	19061.6	24617.4	28764.8	31790.8	32786.6	34668.6	35390.5
65°	10715.1	10921.4	12568.1	16016.3	22258.4	27891.5	32271.0	34658.9	37353.0	38100.7
67.5°	8833.1	9003.9	10560.4	13512.3	19390.3	26695.9	32509.5	36131.7	39689.4	40330.7
70°	6374.3	6506.4	8114.5	10686.1	15790.7	24639.9	32412.8	37175.8	40901.1	41413.5
72.5°	3013.1	3132.4	5020.8	6938.2	11153.4	20637.5	30456.7	36347.6	39670.1	39415.5
75°	1608.1	1711.2	2884.2	3805.9	5890.9	14147.2	24923.5	31310.7	33311.9	32074.4
77.5°	1089.2	1169.8	1785.3	2284.8	2690.9	6715.9	16019.5	21678.4	20856.6	18813.5
80°	863.7	947.4	1463.1	1546.8	1301.9	2426.6	6619.2	10035.1	7208.9	5765.2
82.5°	663.9	757.3	1231.0	1121.5	709.0	995.8	1927.1	3174.3	1846.5	1405.0
85°	406.0	505.9	966.8	715.4	399.6	454.4	654.2	883.0	564.0	470.5
87.5°	206.2	290.0	489.8	261.0	180.5	106.3	174.0	174.0	148.2	128.9
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°
8778.3	0°	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3	8778.3
8733.2	2.5°	8810.6	8875.0	8984.6	9087.7	9168.3	9245.6	9323.0	9364.8	9377.7	9429.3
8781.6	5°	8913.7	9032.9	9245.6	9445.4	9571.1	9648.4	9703.2	9735.4	9741.9	9758.0
8913.7	7.5°	9103.8	9293.9	9590.4	9790.2	9883.7	9877.2	9854.7	9774.1	9741.9	9712.9
9107.0	10°	9371.3	9622.7	9986.8	10125.4	10067.4	9912.7	9712.9	9477.6	9368.1	9261.7
9371.3	12.5°	9703.2	10022.3	10380.0	10373.5	10086.7	9690.3	9226.3	8865.3	8636.5	8472.2
9696.8	15°	10106.0	10473.4	10747.3	10528.2	9899.8	9187.6	8507.6	8037.1	7830.9	7650.4
10025.5	17.5°	10521.8	10914.9	11040.6	10479.9	9429.3	8443.2	7673.0	7302.4	7099.4	7002.7
10380.0	20°	10927.8	11317.7	11214.6	10202.7	8713.9	7598.9	6912.5	6709.4	6667.5	6690.1
10724.8	22.5°	11356.4	11704.4	11250.1	9667.8	7801.9	6735.2	6358.2	6364.6	6458.1	6525.7
11085.7	25°	11794.7	12029.9	11156.6	8894.3	6822.2	6100.4	6006.9	6110.0	6293.7	6425.8
11491.8	27.5°	12216.8	12320.0	10953.6	7937.2	5981.1	5646.0	5662.1	5874.8	6151.9	6335.6
11984.8	30°	12693.8	12577.8	10563.6	6860.9	5397.8	5256.0	5391.4	5639.5	5916.7	6081.0
12606.8	32.5°	13232.0	12800.1	9944.9	5865.1	4985.3	4943.5	5165.8	5326.9	5449.4	5497.7
13431.8	35°	13902.2	13112.7	9152.2	5165.8	4614.7	4714.6	4927.3	4846.8	4798.4	4772.7
14540.3	37.5°	14772.3	13534.9	8224.0	4711.4	4315.0	4550.3	4637.3	4385.9	4195.8	4102.4
15884.1	40°	15819.7	14153.6	7331.4	4360.2	4124.9	4408.5	4257.0	3954.1	3712.4	3580.3
17395.5	42.5°	16983.0	14801.4	6580.5	4095.9	4018.6	4292.5	3976.7	3615.7	3225.8	3183.9
19197.0	45°	18204.4	15468.4	6068.1	3892.9	3967.0	4192.6	3815.5	3232.3	2955.1	3125.9
21004.8	47.5°	19425.8	16080.7	5758.8	3741.4	3941.2	4079.8	3673.8	3019.6	2823.0	3071.1
22941.6	50°	20785.7	16628.6	5620.2	3631.9	3912.2	4034.7	3461.1	2964.8	2684.4	2848.8
24946.1	52.5°	22136.0	17053.9	5517.1	3522.3	3870.3	3999.2	3357.9	2900.3	2516.8	2526.5
26963.4	55°	23483.0	17331.1	5404.3	3377.3	3776.9	3921.9	3348.3	2829.4	2391.2	2346.0
29096.8	57.5°	24920.3	17489.0	5265.7	3216.1	3615.7	3725.3	3338.6	2774.6	2352.5	2278.4
31278.4	60°	26383.3	17721.0	5085.2	3019.6	3399.8	3490.1	3316.0	2755.3	2329.9	2204.3
33334.5	62.5°	27694.9	17801.6	4869.3	2832.7	3122.7	3258.0	3267.7	2739.2	2268.7	2052.8
35042.4	65°	28555.4	17453.5	4492.3	2620.0	2823.0	3019.6	3174.3	2684.4	2159.1	1943.2
35886.8	67.5°	28519.9	16461.0	3902.6	2346.0	2533.0	2755.3	3038.9	2591.0	2027.0	1807.9
35248.7	70°	27192.2	14501.7	3154.9	2027.0	2213.9	2471.7	2864.9	2452.4	1869.1	1659.6
31342.9	72.5°	23321.9	11350.0	2291.3	1653.2	1843.3	2178.5	2639.3	2284.8	1708.0	1527.5
23164.0	75°	16660.8	7183.2	1553.3	1269.7	1434.1	1846.5	2358.9	2088.2	1559.7	1534.0
11601.3	77.5°	8510.9	3432.1	1028.0	928.1	999.0	1456.6	1981.9	1865.9	1582.3	1266.5
3299.9	80°	2768.2	1266.5	647.7	631.6	663.9	970.0	1534.0	1530.7	1198.8	860.4
799.2	82.5°	883.0	544.6	422.2	406.0	389.9	609.1	1069.9	1211.7	808.9	544.6
286.8	85°	351.3	325.5	248.1	228.8	164.4	286.8	560.7	805.6	602.6	393.2
74.1	87.5°	128.9	128.9	67.7	48.3	35.4	96.7	151.5	241.7	344.8	203.0
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>
8778.3
9458.3
9783.8
9719.3
9229.5
8433.5
7631.1
7031.7
6680.4
6541.9
6461.3
6380.7
6119.7
5523.5
4798.4
4124.9
3590.0
3225.8
3216.1
3187.1
2971.2
2594.2
2378.3
2288.0
2213.9
2052.8
1943.2
1817.5
1679.0
1517.8
1446.9
1127.9
760.5
541.4
402.8
199.8
0.0

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