

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: P957406

Luminaire Tested: **GALN-SB9D-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957406
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-SB9D-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 95152 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

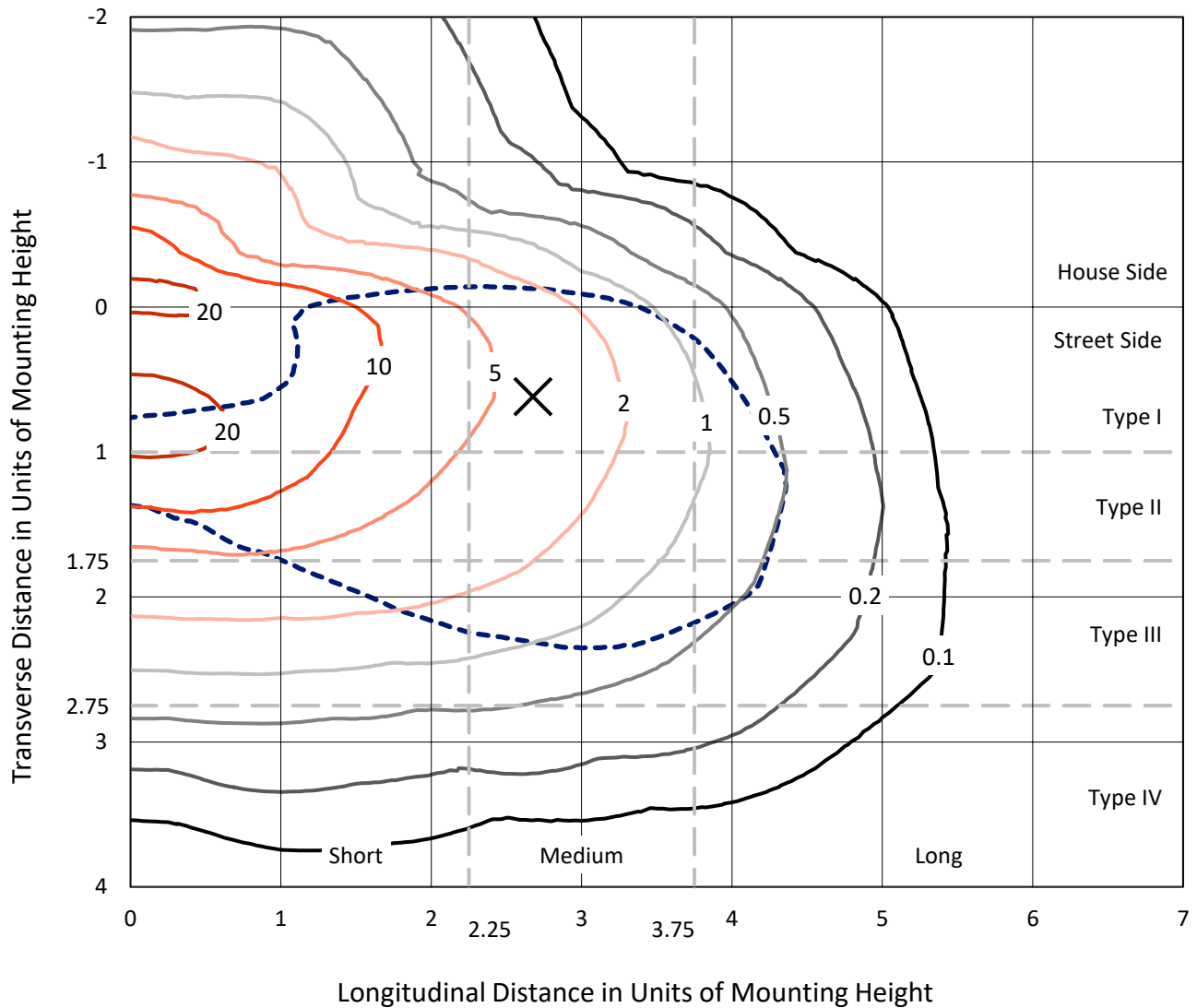
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

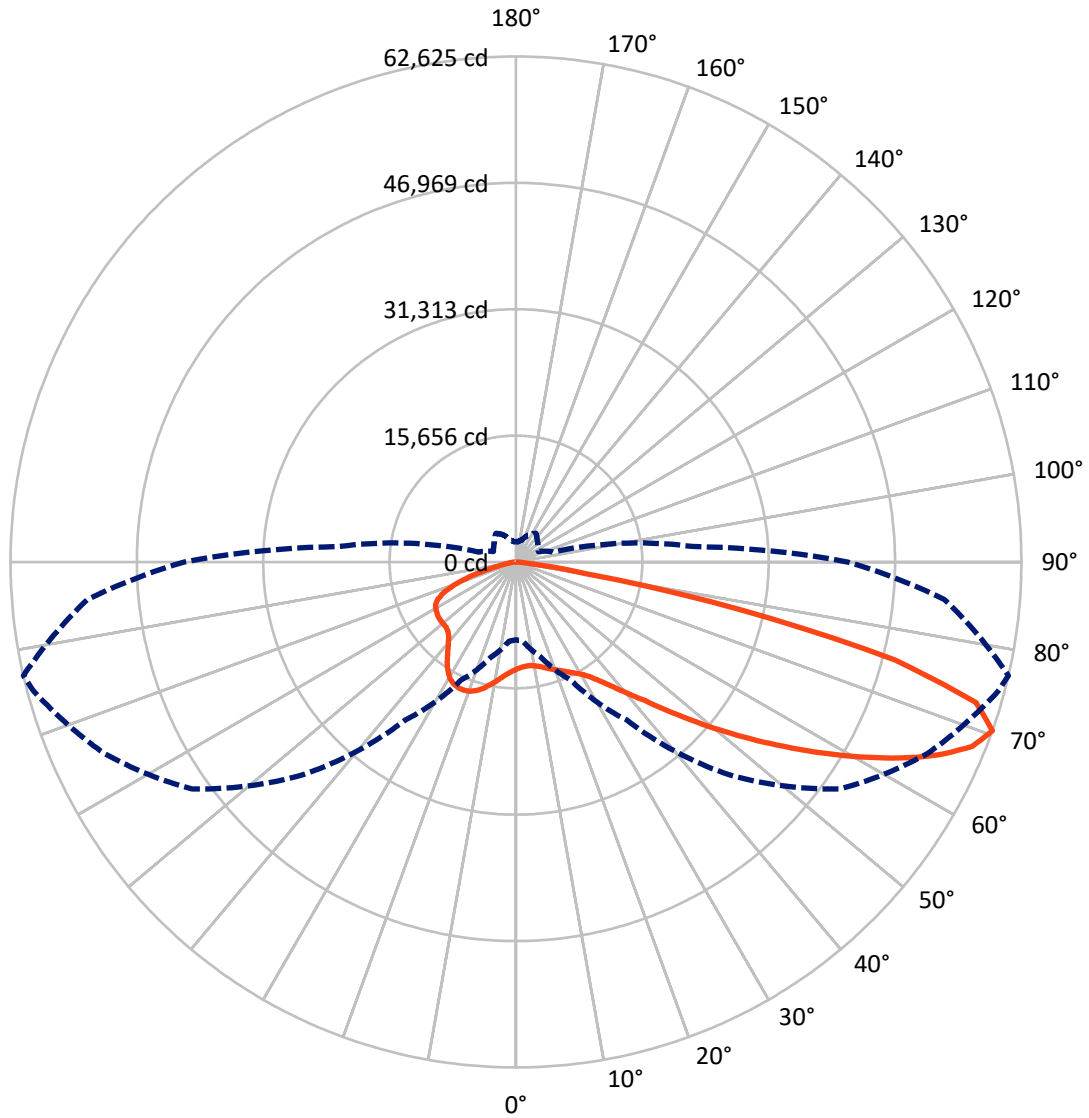
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 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	20836.8	0.0	20836.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	74315.2	0.0	74315.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	95152.0	0.0	95152.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1266.0	1.3
10°-20°	3653.9	3.8
20°-30°	6248.7	6.6
30°-40°	10048.5	10.6
40°-50°	15688.4	16.5
50°-60°	20956.0	22.0
60°-70°	22335.8	23.5
70°-80°	13749.8	14.5
80°-90°	1204.9	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°	95152.0	100.0
0°-180°	95152.0	100.0

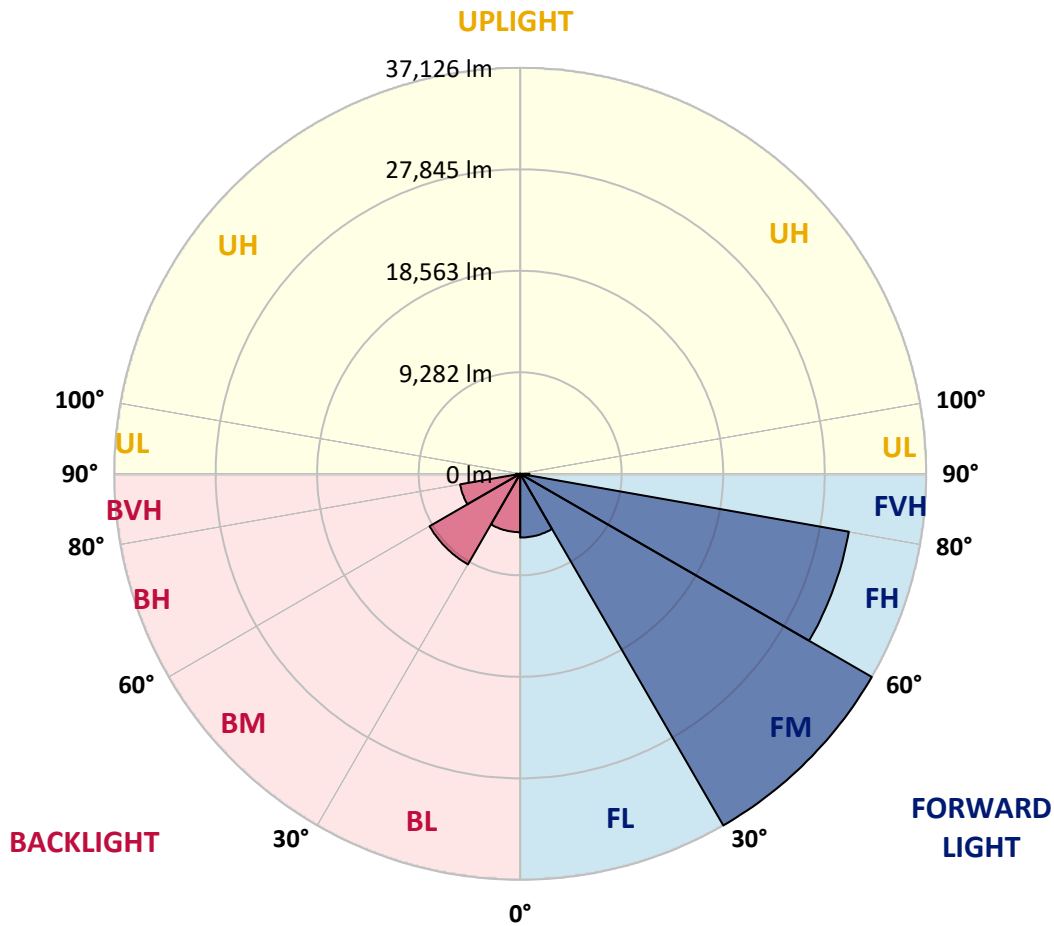


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5829.6	6.1			
FM (30°-60°)	37126.3	39.0			
FH (60°-80°)	30516.8	32.1			G5
FVH (80°-90°)	842.5	0.9			G5
BL (0°-30°)	5339.0	5.6	B5		
BM (30°-60°)	9566.6	10.1	B5		
BH (60°-80°)	5568.8	5.9	B5		G5
BVH (80°-90°)	362.3	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6
2.5°	12236.6	12231.7	12295.1	12314.6	12431.5	12514.4	12670.3	12836.0	13050.4	13074.8	
5°	11530.0	11530.0	11603.1	11681.0	11832.1	11997.8	12236.6	12524.1	12894.5	12952.9	
7.5°	10930.6	10969.6	11032.9	11184.0	11359.4	11598.2	11963.7	12373.0	12860.4	12952.9	
10°	10448.1	10492.0	10570.0	10691.8	10954.9	11286.3	11763.9	12290.2	12943.2	13089.4	
12.5°	10297.1	10340.9	10384.8	10477.4	10721.0	11110.9	11681.0	12329.2	13143.0	13289.2	
15°	10647.9	10701.5	10667.4	10643.0	10769.8	11125.5	11720.0	12470.5	13391.5	13601.1	
17.5°	11456.9	11476.4	11398.4	11169.4	11149.9	11339.9	11905.2	12665.4	13703.4	13932.5	
20°	12762.9	12728.8	12568.0	12114.8	11856.5	11817.5	12222.0	12957.8	14025.0	14268.7	
22.5°	14536.7	14497.7	14176.1	13459.8	12884.7	12504.6	12680.0	13337.9	14385.7	14658.6	
25°	16749.2	16695.6	16222.9	15248.2	14356.4	13415.9	13303.8	13839.9	14829.1	15082.5	
27.5°	19331.9	19288.1	18776.4	17489.9	16203.4	14663.4	14078.6	14429.5	15292.1	15579.6	
30°	22109.7	22236.4	21330.0	19946.0	18318.3	16291.1	15121.5	15155.6	15891.5	16149.8	
32.5°	25374.7	25594.0	24502.4	22748.1	20525.9	18060.0	16437.3	16169.2	16763.8	16978.2	
35°	28610.5	28859.0	27952.6	26013.1	23454.7	20145.8	17811.5	17333.9	17923.6	18157.5	
37.5°	31407.7	31739.1	31271.3	29585.1	26588.1	22660.3	19604.8	18703.3	19351.4	19643.8	
40°	33615.3	34122.1	34088.0	33035.4	30282.0	25711.0	21880.6	20394.3	21125.3	21442.0	
42.5°	35408.6	35847.2	36227.3	36173.7	34136.7	29175.8	24556.0	22592.1	23147.7	23513.1	
45°	36646.4	37114.2	37932.9	38815.0	37845.2	32884.3	27621.2	25199.3	25706.1	26256.8	
47.5°	37752.6	38283.8	39346.1	40744.7	40993.3	36607.4	30978.9	28235.3	28698.2	29268.4	
50°	37850.1	38308.2	39955.3	41938.7	43230.1	40184.3	34585.0	31641.6	32075.3	32684.5	
52.5°	35496.3	36217.6	39092.7	41904.6	44258.3	43176.5	38166.8	35184.4	35671.8	36402.7	
55°	27553.0	28610.5	36563.6	40598.6	43892.8	45111.1	41573.2	38951.4	39575.2	40340.3	
57.5°	23732.4	24195.4	29024.7	38220.4	42226.2	45613.1	44448.4	42757.4	43761.3	44599.4	
60°	21330.0	21714.9	24570.6	34521.7	40033.3	44818.7	46670.5	46305.1	48039.9	49038.9	
62.5°	18756.9	19122.4	21719.8	28824.9	37226.3	43498.1	48074.0	49579.8	52425.8	53517.4	
65°	16203.4	16515.2	19005.4	24219.8	33659.1	42177.5	48800.1	52411.2	56485.2	57615.7	
67.5°	13357.4	13615.7	15969.4	20433.3	29322.0	40369.5	49160.7	54638.2	60018.2	60988.0	
70°	9639.2	9839.0	12270.7	16159.5	23878.6	37260.4	49014.6	56217.1	61850.5	62625.4	
72.5°	4556.4	4736.7	7592.4	10492.0	16866.1	31207.9	46056.5	54964.7	59989.0	59604.0	
75°	2431.7	2587.7	4361.5	5755.2	8908.2	21393.3	37689.3	47347.9	50374.2	48502.9	
77.5°	1647.1	1769.0	2699.7	3455.1	4069.1	10155.7	24224.6	32782.0	31539.3	28449.7	
80°	1306.0	1432.7	2212.4	2339.1	1968.8	3669.5	10009.5	15175.1	10901.3	8718.1	
82.5°	1003.9	1145.2	1861.6	1695.9	1072.1	1505.8	2914.2	4800.1	2792.3	2124.7	
85°	614.0	765.1	1462.0	1081.8	604.3	687.1	989.3	1335.3	852.8	711.5	
87.5°	311.9	438.6	740.7	394.7	272.9	160.8	263.2	263.2	224.2	194.9	
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°
13274.6	0°	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6	13274.6
13206.3	2.5°	13323.3	13420.8	13586.5	13742.4	13864.2	13981.2	14098.1	14161.5	14181.0	14259.0
13279.4	5°	13479.2	13659.6	13981.2	14283.3	14473.4	14590.3	14673.2	14721.9	14731.7	14756.0
13479.2	7.5°	13766.8	14054.3	14502.6	14804.8	14946.1	14936.3	14902.2	14780.4	14731.7	14687.8
13771.6	10°	14171.2	14551.3	15102.0	15311.6	15223.8	14989.9	14687.8	14332.1	14166.4	14005.6
14171.2	12.5°	14673.2	15155.6	15696.5	15686.8	15253.1	14653.7	13951.9	13406.1	13060.2	12811.6
14663.4	15°	15282.3	15837.9	16252.1	15920.7	14970.4	13893.5	12865.2	12153.7	11841.9	11569.0
15160.5	17.5°	15911.0	16505.5	16695.6	15847.6	14259.0	12767.8	11603.1	11042.7	10735.6	10589.4
15696.5	20°	16525.0	17114.6	16958.7	15428.5	13177.1	11491.0	10453.0	10146.0	10082.6	10116.7
16218.0	22.5°	17173.1	17699.4	17012.3	14619.6	11798.0	10185.0	9614.8	9624.6	9765.9	9868.2
16763.8	25°	17835.9	18191.6	16871.0	13450.0	10316.5	9225.0	9083.6	9239.6	9517.3	9717.1
17377.8	27.5°	18474.3	18630.2	16564.0	12002.7	9044.6	8537.8	8562.2	8883.8	9302.9	9580.7
18123.4	30°	19195.5	19020.1	15974.3	10375.0	8162.6	7948.2	8152.8	8528.1	8947.2	9195.7
19063.9	32.5°	20009.3	19356.3	15038.7	8869.2	7538.8	7475.5	7811.7	8055.4	8240.6	8313.7
20311.5	35°	21022.9	19829.0	13839.9	7811.7	6978.4	7129.5	7451.1	7329.3	7256.2	7217.2
21987.8	37.5°	22338.7	20467.4	12436.4	7124.6	6525.2	6880.9	7012.5	6632.4	6344.9	6203.6
24020.0	40°	23922.5	21403.1	11086.5	6593.4	6237.7	6666.5	6437.5	5979.4	5613.9	5414.1
26305.5	42.5°	25681.7	22382.6	9951.1	6193.8	6076.9	6491.1	6013.5	5467.7	4878.1	4814.7
29029.6	45°	27528.7	23391.3	9176.2	5886.8	5998.9	6340.0	5769.9	4887.8	4468.7	4727.0
31763.5	47.5°	29375.6	24317.2	8708.4	5657.8	5959.9	6169.5	5555.4	4566.2	4268.9	4644.2
34692.2	50°	31432.1	25145.7	8498.8	5492.1	5916.1	6101.2	5233.8	4483.3	4059.4	4307.9
37723.4	52.5°	33473.9	25788.9	8342.9	5326.4	5852.7	6047.6	5077.9	4385.9	3806.0	3820.6
40774.0	55°	35510.9	26208.0	8172.3	5107.1	5711.4	5930.7	5063.2	4278.7	3615.9	3547.7
44000.0	57.5°	37684.4	26446.8	7962.8	4863.4	5467.7	5633.4	5048.6	4195.8	3557.4	3445.3
47299.2	60°	39896.8	26797.7	7689.9	4566.2	5141.2	5277.7	5014.5	4166.6	3523.3	3333.3
50408.3	62.5°	41880.2	26919.5	7363.4	4283.5	4722.1	4926.8	4941.4	4142.2	3430.7	3104.2
52991.1	65°	43181.3	26393.2	6793.2	3961.9	4268.9	4566.2	4800.1	4059.4	3265.0	2938.5
54267.9	67.5°	43127.7	24892.3	5901.4	3547.7	3830.3	4166.6	4595.4	3918.0	3065.2	2733.9
53303.0	70°	41120.0	21929.4	4770.9	3065.2	3347.9	3737.7	4332.3	3708.5	2826.5	2509.7
47396.7	72.5°	35267.3	17163.4	3464.8	2499.9	2787.5	3294.3	3991.1	3455.1	2582.8	2309.9
35028.5	75°	25194.4	10862.3	2348.9	1920.0	2168.6	2792.3	3567.2	3157.8	2358.6	2319.6
17543.5	77.5°	12870.1	5189.9	1554.5	1403.5	1510.7	2202.7	2997.0	2821.6	2392.7	1915.2
4990.1	80°	4186.1	1915.2	979.5	955.1	1003.9	1466.8	2319.6	2314.8	1812.8	1301.1
1208.6	82.5°	1335.3	823.6	638.4	614.0	589.7	921.0	1617.9	1832.3	1223.2	823.6
433.7	85°	531.2	492.2	375.2	346.0	248.5	433.7	847.9	1218.3	911.3	594.5
112.1	87.5°	194.9	194.9	102.3	73.1	53.6	146.2	229.0	365.5	521.4	307.0
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>
13274.6
14302.8
14795.0
14697.5
13956.8
12753.1
11539.7
10633.3
10102.1
9892.6
9770.7
9648.9
9254.2
8352.6
7256.2
6237.7
5428.7
4878.1
4863.4
4819.6
4493.1
3922.9
3596.4
3460.0
3347.9
3104.2
2938.5
2748.5
2538.9
2295.3
2188.1
1705.6
1150.1
818.7
609.1
302.1
0.0

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