

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: P941349

Luminaire Tested: **GALN-SB4D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36220 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

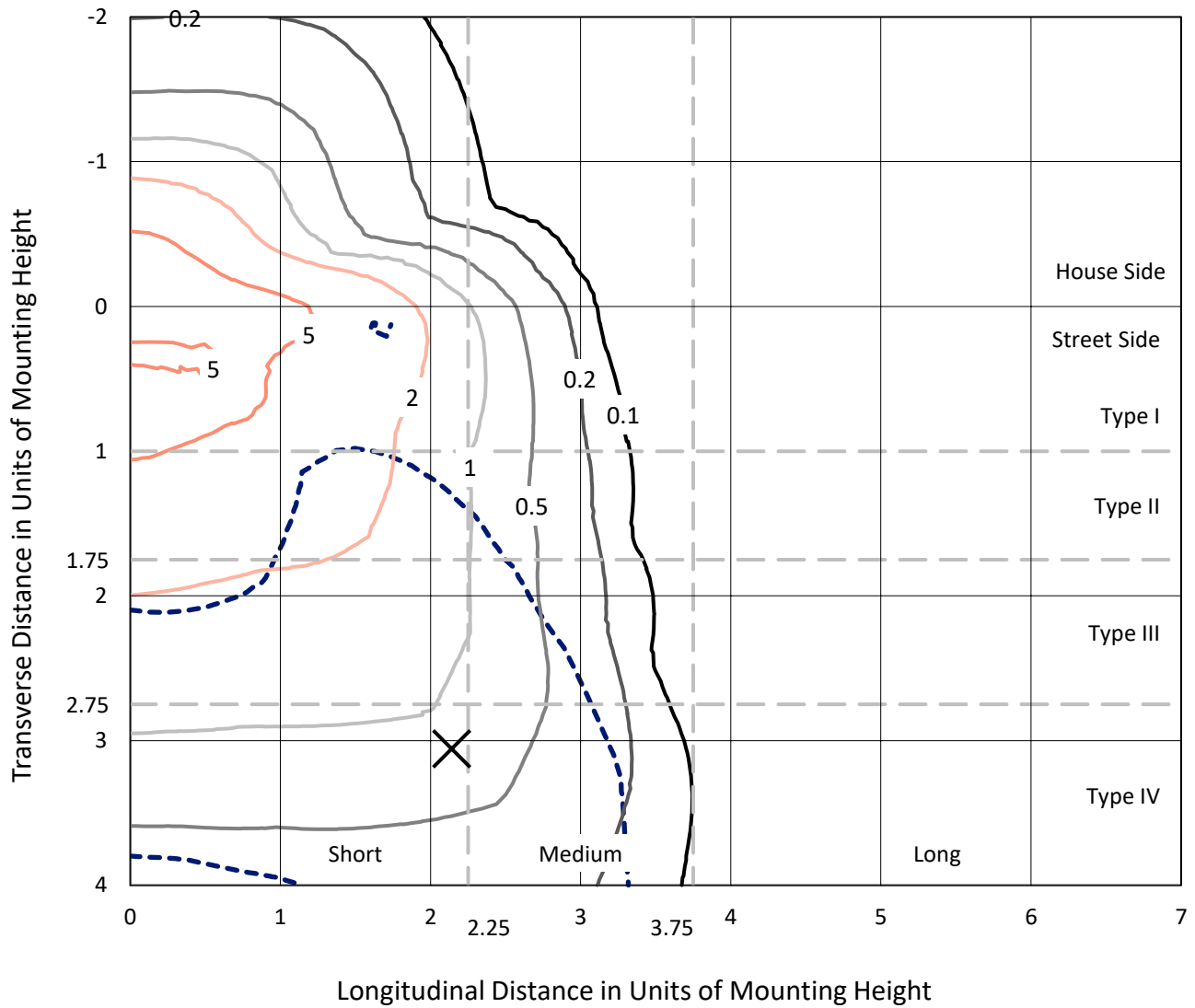
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

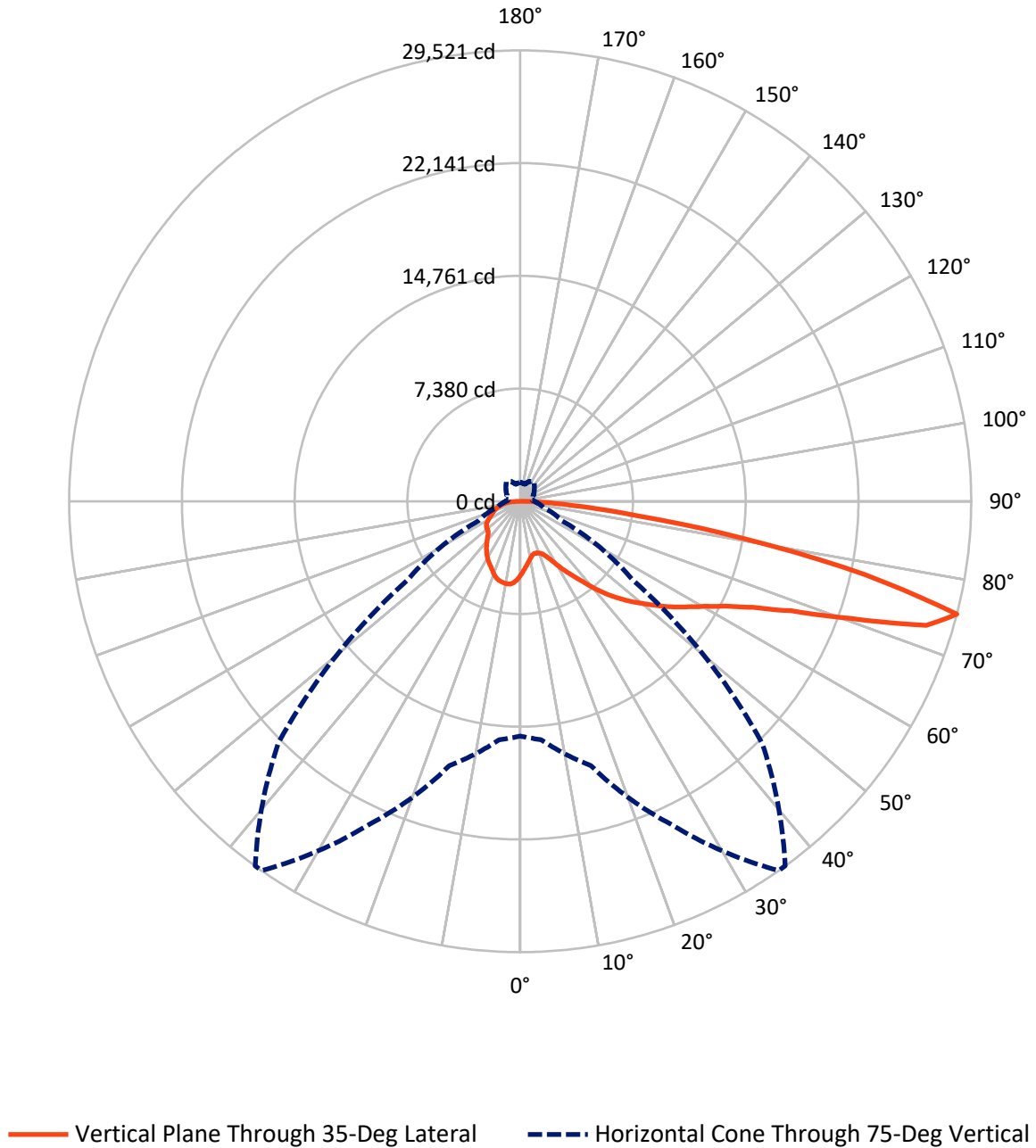
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8619.5	0.0	8619.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27600.6	0.0	27600.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	36220.0	0.0	36220.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.0	1.3
10°-20°	1318.1	3.6
20°-30°	2213.5	6.1
30°-40°	3440.0	9.5
40°-50°	5106.0	14.1
50°-60°	7049.1	19.5
60°-70°	8552.1	23.6
70°-80°	7067.7	19.5
80°-90°	1016.5	2.8
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°	36220.0	100.0
0°-180°	36220.0	100.0



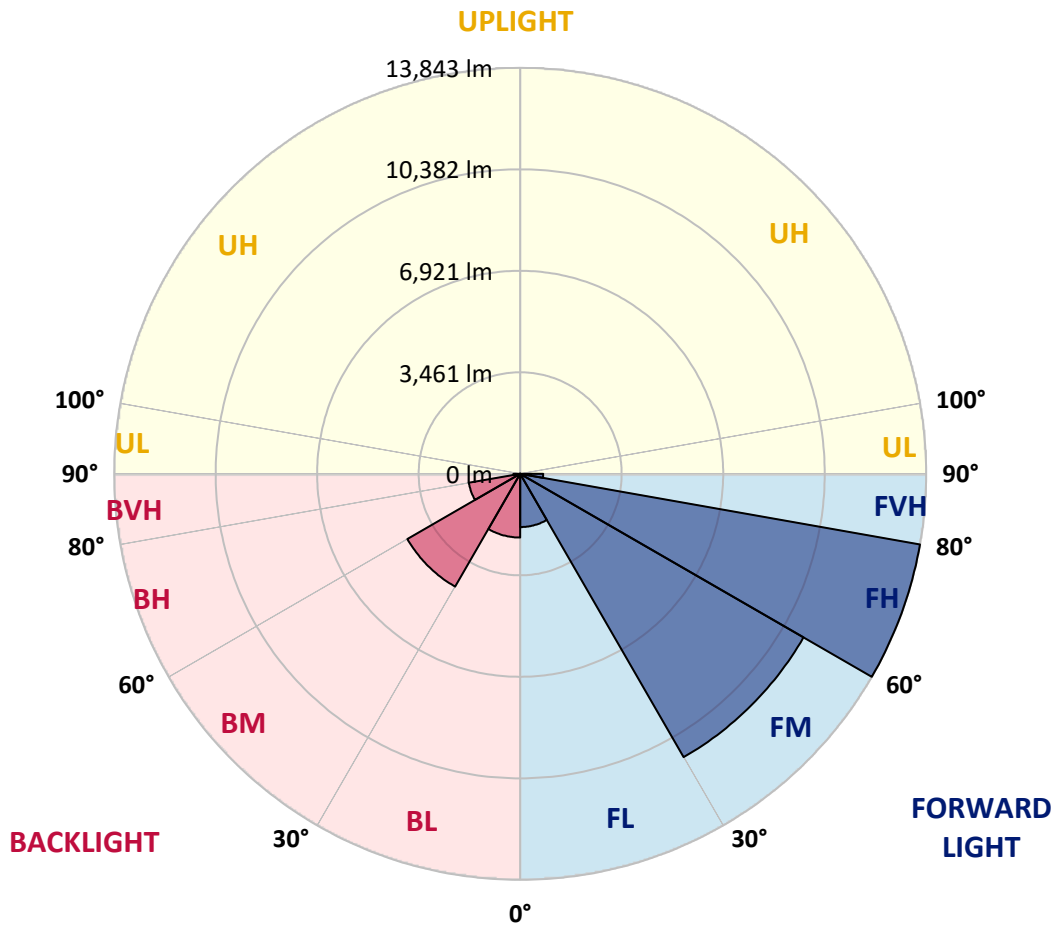
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.4	5.0			
FM (30°-60°)	11153.8	30.8			
FH (60°-80°)	13842.7	38.2			G5
FVH (80°-90°)	787.6	2.2			G5
BL (0°-30°)	2172.2	6.0	B3/2500		
BM (30°-60°)	4441.3	12.3	B3/5000		
BH (60°-80°)	1777.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	228.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6
2.5°	4450.6	4478.0	4489.8	4483.9	4513.3	4509.4	4550.5	4601.4	4671.9	4740.4
5°	4108.0	4137.3	4162.8	4186.3	4243.1	4260.7	4325.3	4423.2	4552.4	4683.6
7.5°	3788.8	3814.3	3853.4	3896.5	3992.4	4010.1	4117.8	4270.5	4450.6	4642.5
10°	3528.4	3553.8	3595.0	3643.9	3763.3	3784.9	3921.9	4125.6	4360.5	4603.3
12.5°	3416.8	3424.6	3448.1	3497.1	3600.8	3614.5	3765.3	3998.3	4272.4	4574.0
15°	3410.9	3426.6	3428.5	3454.0	3540.1	3546.0	3685.0	3916.1	4217.6	4568.1
17.5°	3469.6	3481.4	3463.8	3479.4	3551.9	3561.7	3671.3	3876.9	4200.0	4593.6
20°	3626.3	3636.1	3583.2	3561.7	3614.5	3622.4	3730.1	3902.4	4217.6	4646.4
22.5°	3959.1	3965.0	3835.8	3747.7	3751.6	3755.5	3849.5	4006.1	4286.1	4742.4
25°	4478.0	4474.1	4268.5	4098.2	4000.3	3978.7	4041.4	4174.5	4401.7	4869.6
27.5°	5085.0	5055.7	4850.1	4595.5	4382.1	4350.8	4337.1	4393.8	4566.1	5038.0
30°	5770.3	5742.9	5521.7	5188.8	4893.1	4842.2	4713.0	4683.6	4810.9	5267.1
32.5°	6522.2	6504.6	6240.3	5836.9	5441.4	5382.6	5165.3	5087.0	5186.8	5613.7
35°	7152.7	7137.0	6917.7	6502.6	6019.0	5946.6	5725.3	5637.2	5688.1	6058.2
37.5°	7722.5	7714.7	7526.7	7199.7	6700.4	6612.3	6363.6	6334.2	6324.5	6643.6
40°	8251.2	8231.6	8035.8	7863.5	7493.4	7413.1	7193.8	7168.4	7094.0	7364.2
42.5°	8836.6	8785.7	8501.8	8421.5	8321.7	8255.1	8123.9	8127.8	7963.3	8176.8
45°	9314.4	9285.0	8993.3	8946.3	9054.0	9026.5	9140.1	9169.5	8850.3	9028.5
47.5°	9827.4	9800.0	9553.3	9520.0	9811.7	9819.6	10221.0	10230.7	9715.8	9913.5
50°	10459.8	10420.7	10175.9	10217.0	10544.0	10573.4	11307.7	11241.1	10512.7	10812.3
52.5°	10876.9	10900.4	10847.5	10914.1	11360.5	11387.9	12376.7	12206.4	11301.8	11699.3
55°	11184.3	11231.3	11395.8	11548.5	12222.1	12249.5	13385.1	13124.7	11955.8	12521.6
57.5°	11579.8	11513.3	11820.7	12118.3	13040.5	13113.0	14366.1	14009.8	12535.3	13230.5
60°	12147.7	12100.7	12339.5	12780.1	13956.9	14072.4	15403.9	14806.7	12960.2	13792.4
62.5°	13299.0	13181.5	13218.7	13608.4	15112.1	15264.9	16574.8	15501.8	13171.7	14011.7
65°	15020.1	14818.4	14630.4	14900.7	16739.3	16890.0	17896.5	16048.1	13093.4	13586.8
67.5°	17187.6	16987.9	16756.9	17011.4	19135.9	19255.3	19527.5	16355.5	12476.6	11949.9
70°	18975.3	18900.9	19177.0	20224.6	22963.9	22967.8	21618.7	16100.9	10786.8	8472.4
72.5°	18738.4	18693.4	20148.2	23386.8	27788.5	27684.7	23598.3	14174.2	7266.3	3822.1
75°	15372.5	15664.3	17918.0	23330.0	29521.3	29507.6	22386.2	9010.9	3005.6	1584.1
77.5°	8243.3	8705.4	11632.7	17224.8	23046.1	23392.7	15738.7	3152.4	1290.3	1014.3
80°	2688.4	3091.7	4636.6	8770.0	14975.1	14910.4	6745.4	1237.5	883.1	718.6
82.5°	1141.5	1188.5	2071.6	4141.2	7685.3	7565.9	2148.0	710.8	620.7	491.5
85°	446.4	499.3	914.4	1915.0	3328.7	3256.2	775.4	352.4	397.5	321.1
87.5°	146.9	178.2	327.0	655.9	1035.8	998.6	189.9	121.4	172.3	146.9
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°
4826.6	0°	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6	4826.6
4840.3	2.5°	4867.7	4899.0	4936.2	4991.0	5038.0	5077.2	5118.3	5143.8	5153.6	5182.9
4848.1	5°	4902.9	4971.5	5063.5	5153.6	5241.7	5294.5	5341.5	5365.0	5386.6	5402.2
4869.6	7.5°	4961.7	5049.8	5194.7	5312.2	5386.6	5429.6	5461.0	5453.1	5461.0	5464.9
4893.1	10°	5012.6	5135.9	5308.2	5419.8	5476.6	5478.6	5470.8	5443.3	5429.6	5431.6
4928.4	12.5°	5073.3	5210.3	5396.3	5490.3	5506.0	5462.9	5429.6	5382.6	5365.0	5357.2
4981.2	15°	5155.5	5312.2	5492.3	5527.5	5488.4	5433.6	5376.8	5300.4	5261.2	5229.9
5071.3	17.5°	5255.4	5427.7	5566.7	5541.2	5457.0	5367.0	5275.0	5159.4	5079.1	5045.9
5194.7	20°	5394.4	5549.1	5623.5	5511.9	5384.6	5247.5	5090.9	4949.9	4875.5	4842.2
5351.3	22.5°	5562.8	5711.6	5678.3	5461.0	5280.8	5061.5	4865.7	4761.9	4724.7	4701.2
5553.0	25°	5764.5	5891.7	5717.5	5386.6	5110.5	4814.8	4664.0	4630.8	4613.1	4595.5
5799.7	27.5°	6026.8	6095.4	5746.8	5276.9	4844.2	4552.4	4497.6	4503.5	4497.6	4468.2
6142.4	30°	6373.4	6359.7	5774.2	5098.7	4538.7	4315.5	4319.4	4344.9	4348.8	4329.2
6620.1	32.5°	6829.6	6690.6	5788.0	4867.7	4247.0	4108.0	4111.9	4139.3	4158.9	4125.6
7244.7	35°	7381.8	7076.3	5766.4	4577.9	4021.8	3910.2	3880.8	3888.7	3894.5	3863.2
8002.5	37.5°	8026.0	7509.1	5670.5	4256.8	3835.8	3716.4	3653.7	3600.8	3569.5	3540.1
8860.1	40°	8732.8	7981.0	5494.3	3943.5	3628.2	3510.8	3416.8	3316.9	3211.2	3172.0
9768.6	42.5°	9473.0	8466.5	5280.8	3643.9	3389.4	3293.4	3193.6	3048.7	2890.1	2809.8
10712.4	45°	10240.5	8963.9	5071.3	3348.2	3144.6	3103.5	2988.0	2813.7	2641.4	2539.6
11658.1	47.5°	10992.4	9433.8	4763.9	3050.6	2915.5	2960.6	2870.5	2709.9	2518.0	2357.5
12596.0	50°	11711.0	9874.4	4260.7	2749.1	2729.5	2917.5	2831.3	2600.3	2381.0	2175.4
13516.3	52.5°	12423.7	10230.7	3616.5	2475.0	2629.6	2905.7	2780.4	2525.9	2257.6	2042.2
14381.8	55°	13028.8	10414.8	2995.8	2240.0	2484.7	2805.9	2719.7	2437.8	2083.4	1854.3
14975.1	57.5°	13373.4	10266.0	2478.9	2008.9	2285.0	2641.4	2615.9	2249.8	1875.8	1699.6
15090.6	60°	13224.6	9662.9	2055.9	1807.3	2095.1	2463.2	2435.8	2063.8	1717.2	1550.8
14471.8	62.5°	12404.2	8513.5	1721.1	1631.0	1922.8	2281.1	2255.7	1920.8	1595.8	1435.2
12829.1	65°	10751.6	6925.6	1460.7	1484.2	1748.5	2061.8	2099.0	1801.4	1499.9	1343.2
9925.3	67.5°	8200.3	5016.5	1257.1	1356.9	1578.2	1846.4	1954.1	1715.2	1419.6	1270.8
5742.9	70°	4673.8	2848.9	1084.8	1233.6	1427.4	1646.7	1842.5	1646.7	1333.4	1210.1
2151.9	72.5°	1772.0	1308.0	937.9	1110.2	1282.5	1478.3	1719.2	1539.0	1233.6	1141.5
1112.2	75°	945.7	796.9	789.1	965.3	1116.1	1313.8	1564.5	1433.3	1159.2	1206.2
769.5	77.5°	644.2	563.9	659.9	826.3	934.0	1131.7	1400.0	1272.7	1004.5	1000.6
532.6	80°	446.4	399.4	536.5	665.7	722.5	951.6	1221.8	1092.6	818.5	763.6
329.0	82.5°	268.3	260.4	401.4	497.3	511.0	734.3	1012.3	916.4	669.6	583.5
195.8	85°	146.9	154.7	256.5	291.7	297.6	513.0	793.0	708.8	515.0	432.7
70.5	87.5°	41.1	52.9	94.0	115.5	142.9	266.3	471.9	421.0	258.5	180.1
0.0	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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180°
4826.6
5181.0
5406.1
5470.8
5435.5
5353.3
5239.7
5047.8
4838.3
4705.2
4595.5
4474.1
4339.0
4141.2
3884.7
3559.7
3189.6
2819.6
2531.7
2339.9
2157.8
2018.7
1834.7
1676.1
1527.3
1409.8
1317.8
1247.3
1194.4
1125.9
1245.3
922.2
730.3
587.4
436.6
180.1
0.0

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