

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: P942109

Luminaire Tested: **GALN-SB5D-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942109
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-SB5D-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35343 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

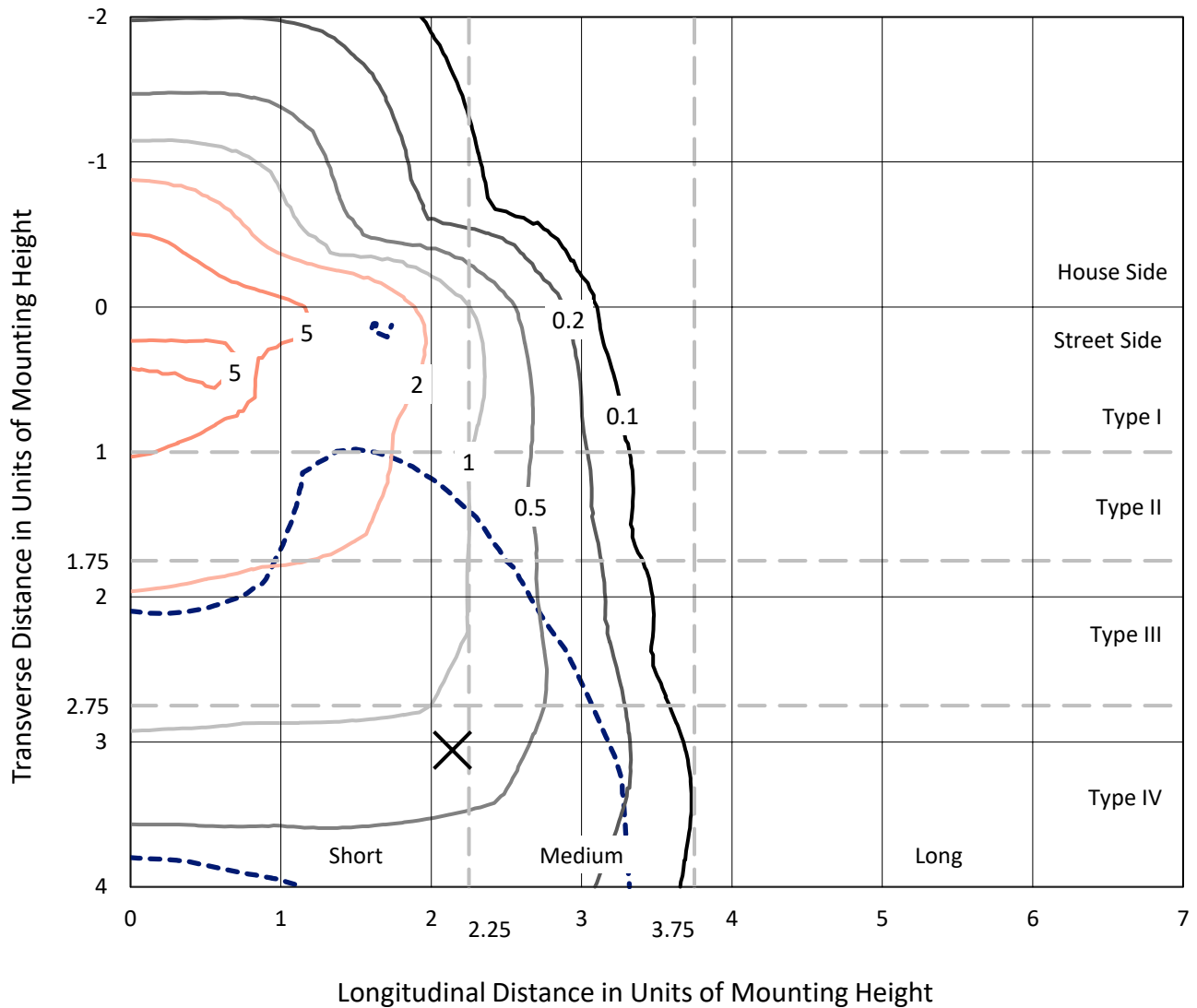
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

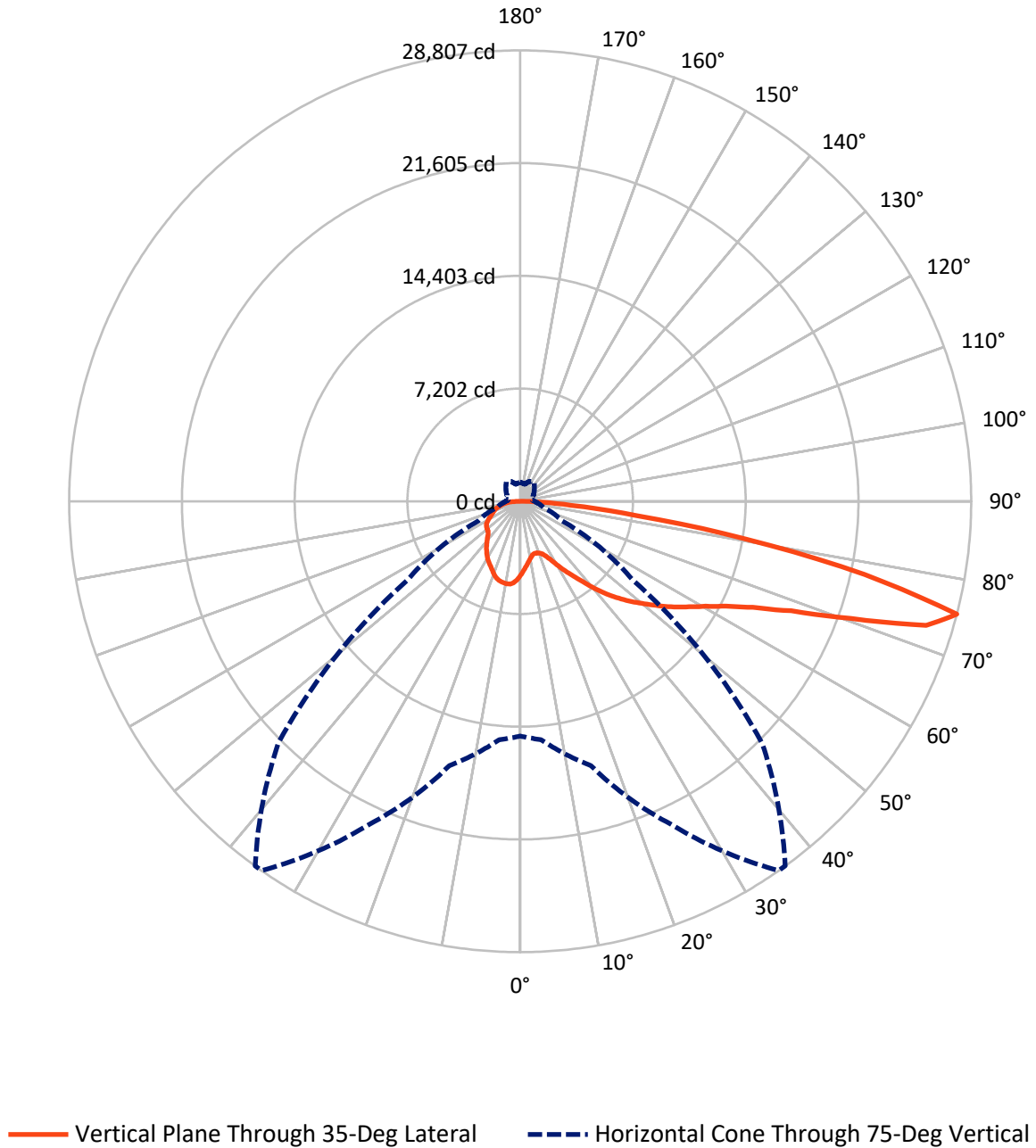
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	8410.7	0.0	8410.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	26932.3	0.0	26932.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	35343.0	0.0	35343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.9	1.3
10°-20°	1286.2	3.6
20°-30°	2159.9	6.1
30°-40°	3356.8	9.5
40°-50°	4982.3	14.1
50°-60°	6878.4	19.5
60°-70°	8345.1	23.6
70°-80°	6896.5	19.5
80°-90°	991.9	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°	35343.0	100.0
0°-180°	35343.0	100.0

Coefficient of Utilization



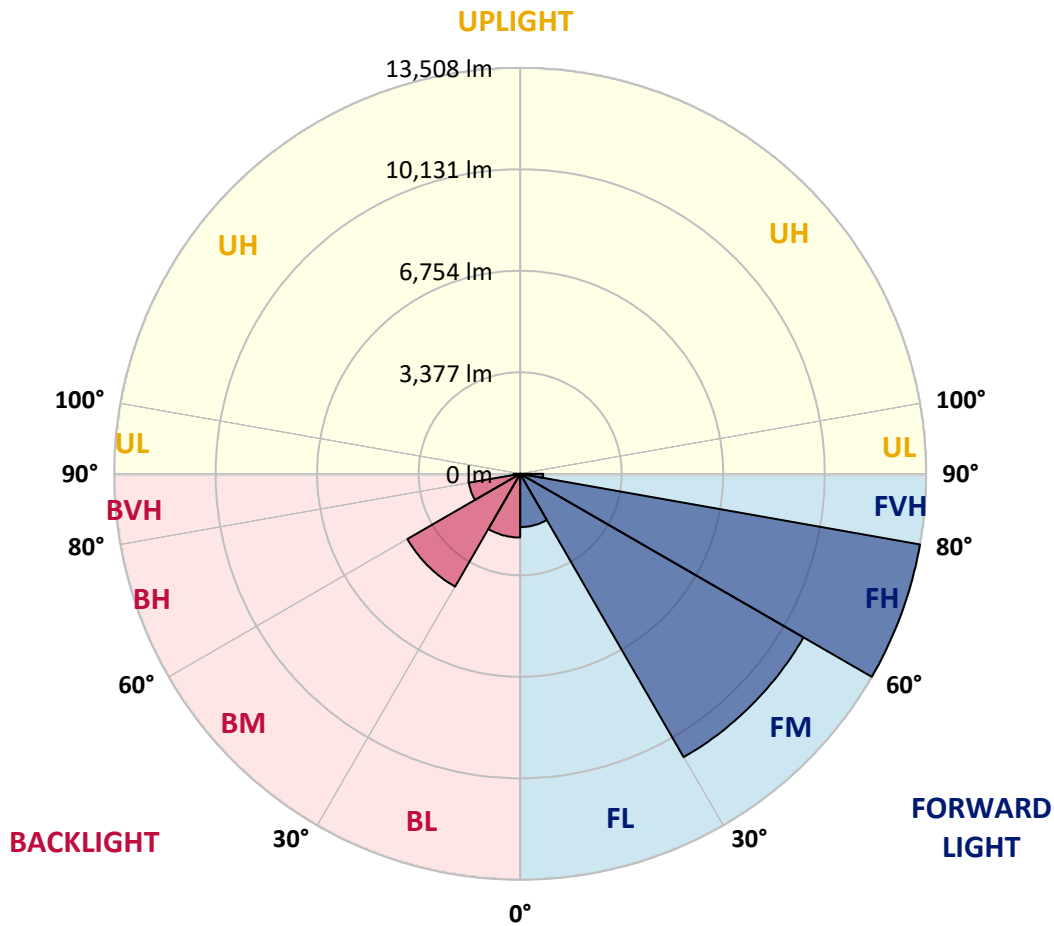
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.4	5.0			
FM (30°-60°)	10883.7	30.8			
FH (60°-80°)	13507.6	38.2			G5
FVH (80°-90°)	768.6	2.2			G5
BL (0°-30°)	2119.6	6.0	B3/2500		
BM (30°-60°)	4333.7	12.3	B3/5000		
BH (60°-80°)	1734.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	223.4	0.6			G2/225
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°	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7
2.5°	4342.9	4369.6	4381.1	4375.3	4404.0	4400.2	4440.3	4490.0	4558.8	4625.6
5°	4008.5	4037.2	4062.0	4084.9	4140.3	4157.5	4220.6	4316.1	4442.2	4570.2
7.5°	3697.1	3721.9	3760.1	3802.1	3895.8	3913.0	4018.0	4167.1	4342.9	4530.1
10°	3442.9	3467.8	3507.9	3555.7	3672.2	3693.2	3827.0	4025.7	4255.0	4491.9
12.5°	3334.0	3341.7	3364.6	3412.4	3513.6	3527.0	3674.1	3901.5	4169.0	4463.2
15°	3328.3	3343.6	3345.5	3370.3	3454.4	3460.1	3595.8	3821.3	4115.5	4457.5
17.5°	3385.6	3397.1	3379.9	3395.2	3465.9	3475.4	3582.4	3783.0	4098.3	4482.3
20°	3538.5	3548.0	3496.4	3475.4	3527.0	3534.7	3639.7	3807.9	4115.5	4533.9
22.5°	3863.3	3869.0	3742.9	3656.9	3660.8	3664.6	3756.3	3909.1	4182.4	4627.5
25°	4369.6	4365.8	4165.2	3998.9	3903.4	3882.4	3943.5	4073.5	4295.1	4751.7
27.5°	4961.9	4933.2	4732.6	4484.2	4276.0	4245.4	4232.0	4287.4	4455.6	4916.0
30°	5630.6	5603.9	5388.0	5063.2	4774.7	4725.0	4598.9	4570.2	4694.4	5139.6
32.5°	6364.3	6347.1	6089.2	5695.6	5309.6	5252.3	5040.2	4963.8	5061.2	5477.8
35°	6979.5	6964.2	6750.2	6345.2	5873.3	5802.6	5586.7	5500.7	5550.4	5911.5
37.5°	7535.5	7527.9	7344.4	7025.4	6538.2	6452.2	6209.5	6180.9	6171.3	6482.8
40°	8051.4	8032.3	7841.2	7673.1	7312.0	7233.6	7019.6	6994.8	6922.2	7185.9
42.5°	8622.7	8573.0	8295.9	8217.6	8120.2	8055.2	7927.2	7931.0	7770.5	7978.8
45°	9088.8	9060.2	8775.5	8729.7	8834.7	8808.0	8918.8	8947.5	8636.0	8809.9
47.5°	9589.4	9562.7	9321.9	9289.5	9574.1	9581.8	9973.5	9983.0	9480.5	9673.5
50°	10206.6	10168.4	9929.5	9969.6	10288.7	10317.4	11033.9	10968.9	10258.2	10550.5
52.5°	10613.5	10636.5	10584.9	10649.8	11085.5	11112.2	12077.1	11910.8	11028.1	11416.0
55°	10913.5	10959.4	11119.8	11268.9	11926.1	11952.9	13061.0	12806.9	11666.3	12218.5
57.5°	11299.4	11234.5	11534.5	11824.9	12724.8	12795.5	14018.3	13670.5	12231.8	12910.1
60°	11853.5	11807.7	12040.8	12470.7	13618.9	13731.7	15030.9	14448.2	12646.4	13458.5
62.5°	12977.0	12862.3	12898.6	13278.9	14746.2	14895.2	16173.5	15126.4	12852.8	13672.4
65°	14656.4	14459.6	14276.2	14539.9	16333.9	16481.1	17463.1	15659.5	12776.4	13257.8
67.5°	16771.5	16576.6	16351.1	16599.5	18672.6	18789.1	19054.7	15959.5	12174.5	11660.6
70°	18515.9	18443.3	18712.7	19734.9	22407.8	22411.6	21095.2	15711.1	10525.6	8267.3
72.5°	18284.7	18240.7	19660.3	22820.5	27115.6	27014.3	23026.9	13831.0	7090.3	3729.5
75°	15000.3	15285.0	17484.1	22765.1	28806.5	28793.1	21844.2	8792.7	2932.8	1545.7
77.5°	8043.7	8494.6	11351.0	16807.8	22488.1	22826.3	15357.6	3076.1	1259.1	989.7
80°	2623.3	3016.9	4524.4	8557.7	14612.5	14549.4	6582.1	1207.5	861.7	701.2
82.5°	1113.9	1159.8	2021.4	4041.0	7499.2	7382.7	2096.0	693.6	605.7	479.6
85°	435.6	487.2	892.3	1868.6	3248.1	3177.4	756.6	343.9	387.9	313.3
87.5°	143.3	173.9	319.1	640.1	1010.7	974.4	185.3	118.5	168.1	143.3
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°
4709.7	0°	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7	4709.7
4723.1	2.5°	4749.8	4780.4	4816.7	4870.2	4916.0	4954.3	4994.4	5019.2	5028.8	5057.4
4730.7	5°	4784.2	4851.1	4940.9	5028.8	5114.7	5166.3	5212.2	5235.1	5256.1	5271.4
4751.7	7.5°	4841.5	4927.5	5068.9	5183.5	5256.1	5298.2	5328.7	5321.1	5328.7	5332.6
4774.7	10°	4891.2	5011.6	5179.7	5288.6	5344.0	5345.9	5338.3	5311.5	5298.2	5300.1
4809.0	12.5°	4950.4	5084.2	5265.7	5357.4	5372.7	5330.6	5298.2	5252.3	5235.1	5227.5
4860.6	15°	5030.7	5183.5	5359.3	5393.7	5355.5	5302.0	5246.6	5172.1	5133.9	5103.3
4948.5	17.5°	5128.1	5296.3	5431.9	5407.1	5324.9	5237.0	5147.2	5034.5	4956.2	4923.7
5068.9	20°	5263.8	5414.7	5487.3	5378.4	5254.2	5120.5	4967.6	4830.1	4757.5	4725.0
5221.7	22.5°	5428.1	5573.3	5540.8	5328.7	5153.0	4939.0	4747.9	4646.6	4610.3	4587.4
5418.5	25°	5624.9	5749.1	5579.0	5256.1	4986.7	4698.2	4551.1	4518.6	4501.4	4484.2
5659.3	27.5°	5880.9	5947.8	5607.7	5149.1	4726.9	4442.2	4388.7	4394.4	4388.7	4360.0
5993.6	30°	6219.1	6205.7	5634.4	4975.3	4428.8	4211.0	4214.8	4239.7	4243.5	4224.4
6459.8	32.5°	6664.3	6528.6	5647.8	4749.8	4144.1	4008.5	4012.3	4039.1	4058.2	4025.7
7069.3	35°	7203.1	6905.0	5626.8	4467.0	3924.4	3815.5	3786.9	3794.5	3800.2	3769.7
7808.7	37.5°	7831.7	7327.3	5533.2	4153.7	3742.9	3626.4	3565.2	3513.6	3483.1	3454.4
8645.6	40°	8521.4	7787.7	5361.2	3848.0	3540.4	3425.8	3334.0	3236.6	3133.4	3095.2
9532.1	42.5°	9243.6	8261.5	5153.0	3555.7	3307.3	3213.7	3116.2	2974.8	2820.1	2741.7
10453.0	45°	9992.6	8746.8	4948.5	3267.2	3068.5	3028.3	2915.6	2745.6	2577.4	2478.1
11375.9	47.5°	10726.3	9205.4	4648.6	2976.8	2844.9	2888.9	2801.0	2644.3	2457.1	2300.4
12291.1	50°	11427.5	9635.3	4157.5	2682.5	2663.4	2846.8	2762.8	2537.3	2323.3	2122.7
13189.1	52.5°	12122.9	9983.0	3528.9	2415.0	2566.0	2835.4	2713.1	2464.7	2203.0	1992.8
14033.6	55°	12713.3	10162.6	2923.3	2185.8	2424.6	2737.9	2653.9	2378.7	2032.9	1809.4
14612.5	57.5°	13049.6	10017.4	2418.9	1960.3	2229.7	2577.4	2552.6	2195.3	1830.4	1658.4
14725.2	60°	12904.4	9428.9	2006.2	1763.5	2044.4	2403.6	2376.8	2013.8	1675.6	1513.2
14121.4	62.5°	12103.8	8307.4	1679.4	1591.6	1876.2	2225.9	2201.0	1874.3	1557.2	1400.5
12518.4	65°	10491.2	6757.9	1425.3	1448.3	1706.2	2011.9	2048.2	1757.8	1463.5	1310.7
9685.0	67.5°	8001.7	4895.0	1226.6	1324.1	1540.0	1801.7	1906.8	1673.7	1385.2	1240.0
5603.9	70°	4560.7	2780.0	1058.5	1203.7	1392.8	1606.8	1797.9	1606.8	1301.1	1180.8
2099.8	72.5°	1729.1	1276.3	915.2	1083.3	1251.5	1442.5	1677.5	1501.8	1203.7	1113.9
1085.2	75°	922.8	777.6	770.0	941.9	1089.1	1282.0	1526.6	1398.6	1131.1	1176.9
750.9	77.5°	628.6	550.3	643.9	806.3	911.4	1104.3	1366.1	1241.9	980.2	976.3
519.7	80°	435.6	389.8	523.5	649.6	705.0	928.6	1192.2	1066.1	798.6	745.1
321.0	82.5°	261.8	254.1	391.7	485.3	498.7	716.5	987.8	894.2	653.4	569.4
191.1	85°	143.3	150.9	250.3	284.7	290.4	500.6	773.8	691.6	502.5	422.2
68.8	87.5°	40.1	51.6	91.7	112.7	139.5	259.8	460.5	410.8	252.2	175.8
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>
4709.7
5055.5
5275.2
5338.3
5303.9
5223.7
5112.8
4925.6
4721.2
4591.2
4484.2
4365.8
4233.9
4041.0
3790.7
3473.5
3112.4
2751.3
2470.4
2283.2
2105.5
1969.9
1790.3
1635.5
1490.3
1375.7
1285.9
1217.1
1165.5
1098.6
<i>1215.2</i>
899.9
712.7
573.2
426.1
175.8
0.0

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