

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: P950537

Luminaire Tested: **GALN-SB4D-950-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-950-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28751 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

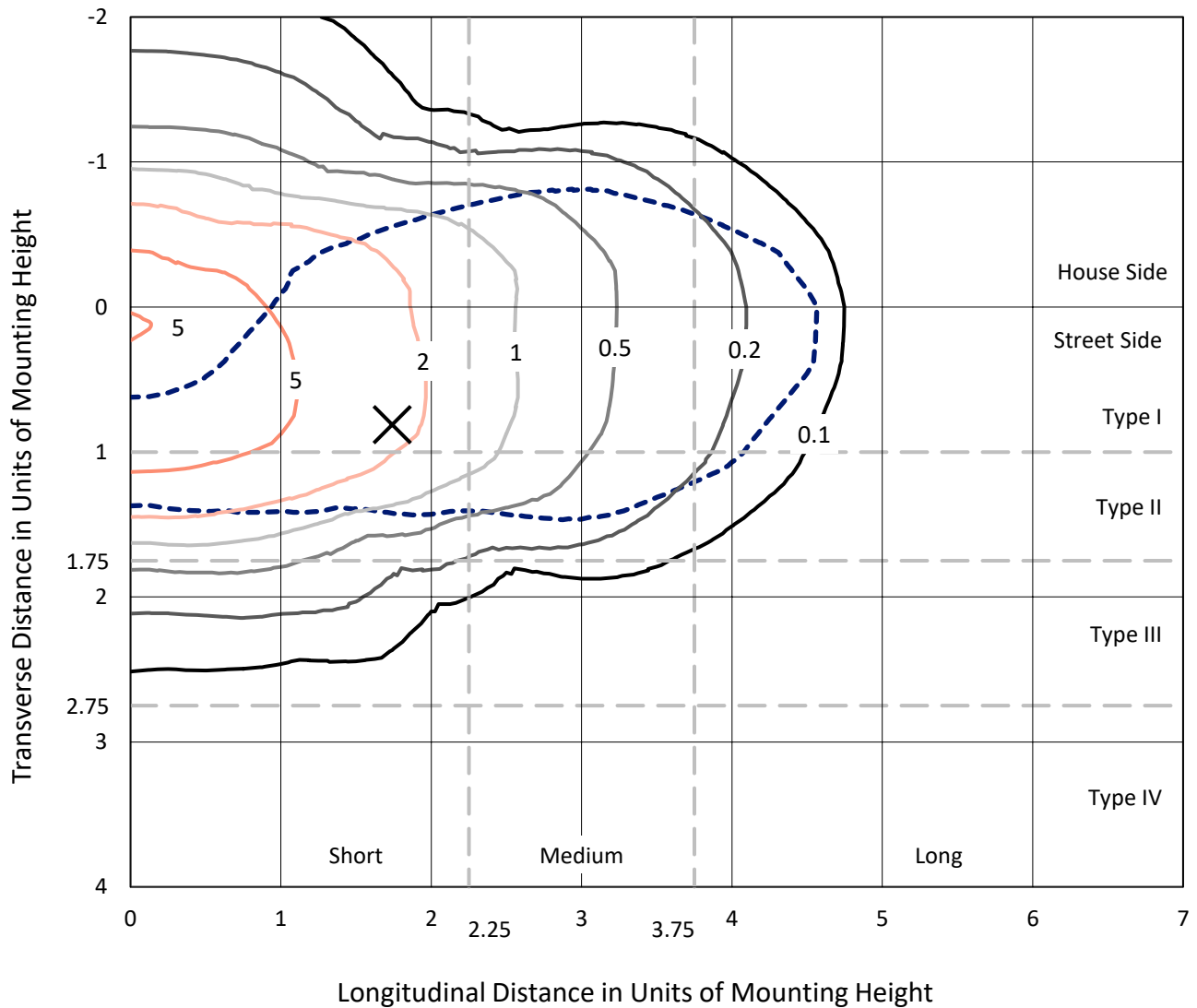
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

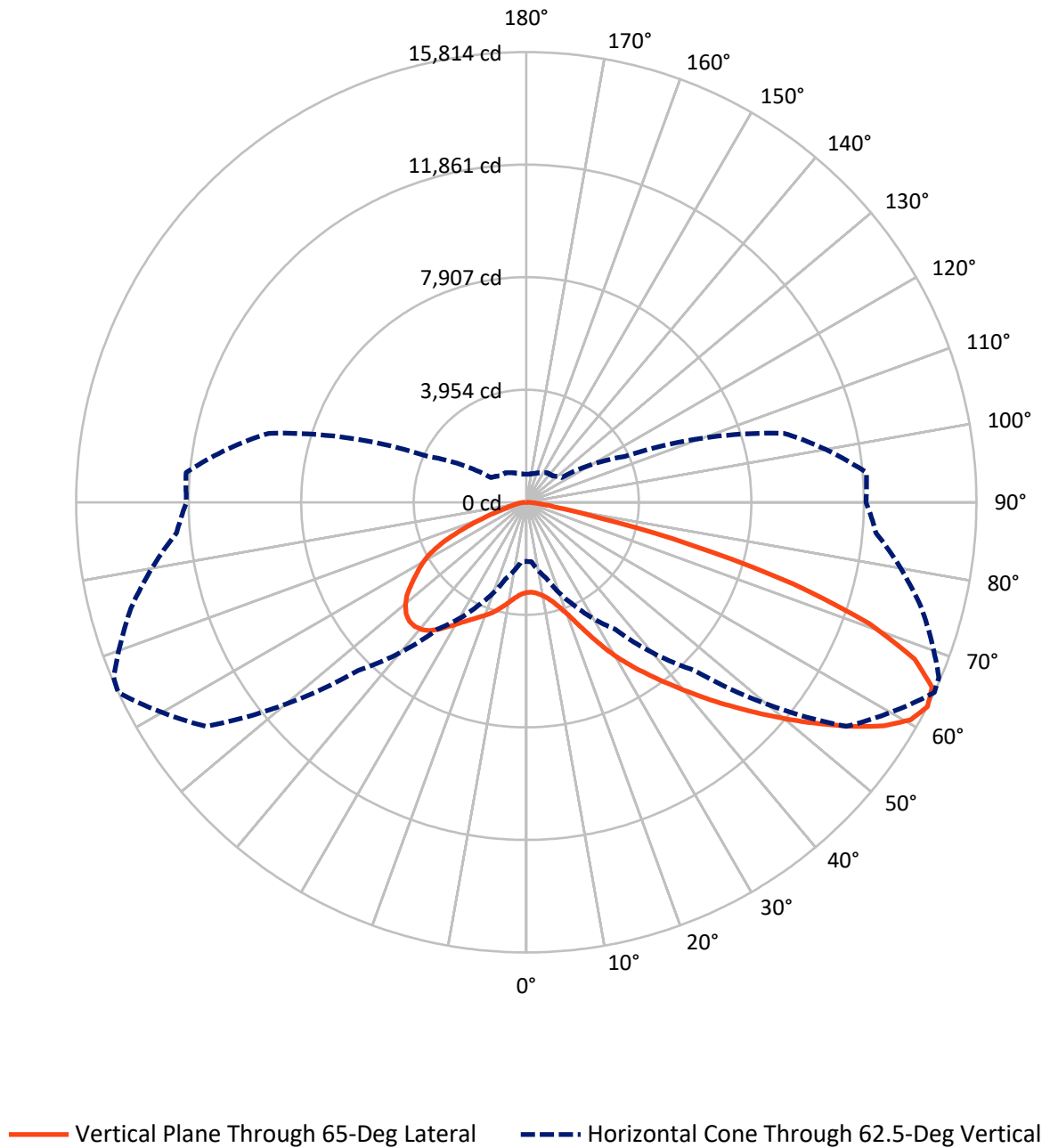
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9072.6	0.0	9072.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19678.4	0.0	19678.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	28751.0	0.0	28751.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	1.1
10°-20°	1071.1	3.7
20°-30°	2171.9	7.6
30°-40°	3758.4	13.1
40°-50°	5687.6	19.8
50°-60°	6668.3	23.2
60°-70°	5590.6	19.4
70°-80°	3086.4	10.7
80°-90°	400.9	1.4
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°	28751.0	100.0
0°-180°	28751.0	100.0

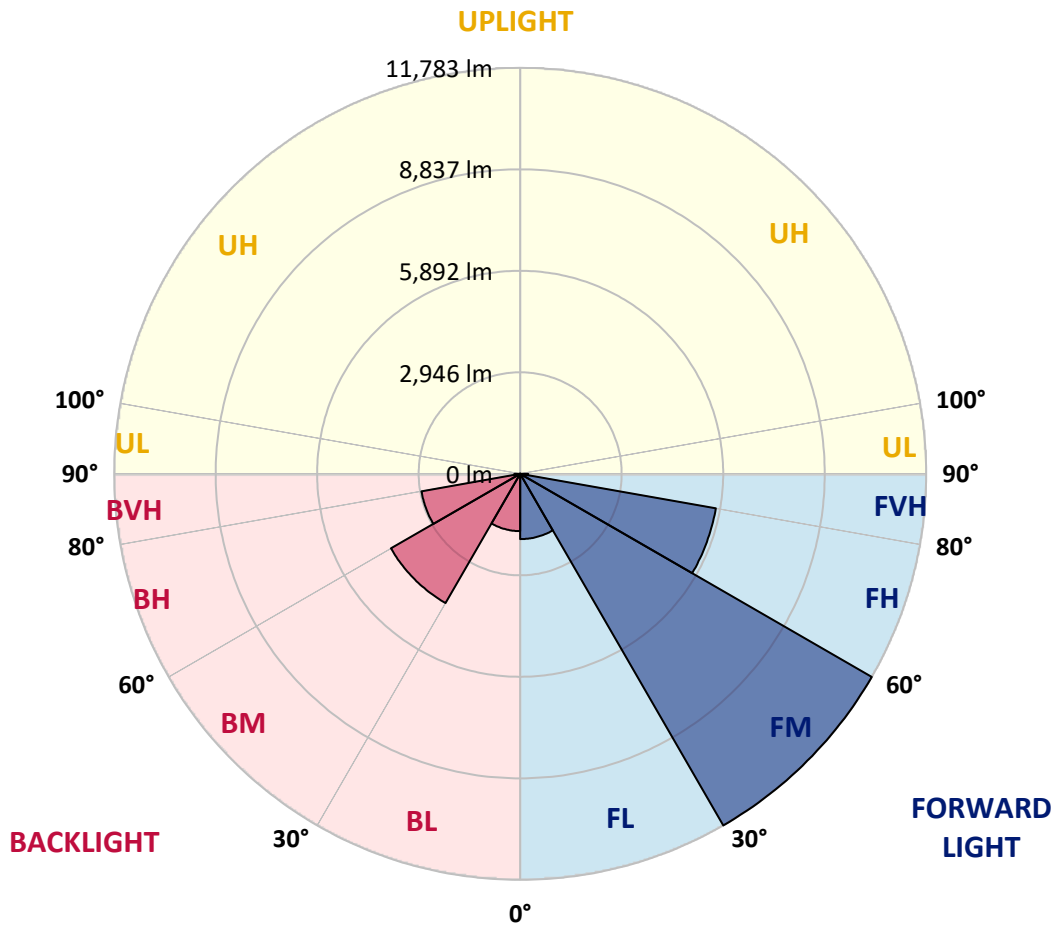


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1895.1	6.6			
FM (30°-60°)	11783.1	41.0			
FH (60°-80°)	5766.6	20.1			G3/7500
FVH (80°-90°)	233.7	0.8			G3/500
BL (0°-30°)	1663.8	5.8	B3/2500		
BM (30°-60°)	4331.1	15.1	B3/5000		
BH (60°-80°)	2910.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	167.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2
2.5°	3147.4	3138.4	3145.9	3145.9	3148.8	3147.4	3157.8	3160.8	3165.3	3174.2
5°	3116.0	3114.5	3128.0	3139.9	3151.8	3162.3	3175.7	3195.1	3198.1	3208.5
7.5°	3105.6	3096.6	3117.5	3132.4	3160.8	3186.1	3221.9	3254.8	3268.2	3272.7
10°	3186.1	3171.2	3190.6	3199.6	3223.4	3248.8	3290.5	3342.8	3357.7	3375.6
12.5°	3323.4	3307.0	3335.3	3348.7	3371.1	3393.5	3421.8	3472.5	3480.0	3512.8
15°	3511.3	3491.9	3509.8	3526.2	3563.5	3584.4	3612.7	3662.0	3662.0	3687.3
17.5°	3766.4	3741.0	3754.4	3760.4	3784.3	3815.6	3863.3	3906.6	3929.0	3920.0
20°	4146.7	4115.4	4115.4	4085.6	4076.6	4102.0	4164.6	4224.3	4248.2	4201.9
22.5°	4718.0	4673.3	4647.9	4546.5	4506.2	4509.2	4571.9	4645.0	4664.3	4582.3
25°	5444.5	5374.4	5340.1	5190.9	5099.9	5020.8	5070.1	5164.0	5190.9	5089.5
27.5°	6170.9	6175.4	6142.6	5963.6	5812.9	5668.2	5642.9	5741.3	5769.6	5654.8
30°	7189.7	7083.8	7021.1	6806.3	6591.5	6388.7	6284.3	6324.5	6332.0	6194.8
32.5°	8068.3	8041.4	7907.2	7719.2	7443.3	7125.5	6951.0	6886.9	6875.0	6679.5
35°	9069.1	9054.2	8912.5	8688.8	8390.5	7948.9	7634.2	7450.7	7435.8	7161.3
37.5°	10086.4	10086.4	9947.7	9703.1	9394.3	8842.4	8363.6	8072.7	8025.0	7667.0
40°	10897.9	10848.7	10874.0	10771.1	10417.6	9831.4	9173.6	8751.4	8687.3	8257.7
42.5°	11358.8	11342.4	11494.5	11609.4	11464.7	10996.3	10065.6	9486.8	9397.3	8908.1
45°	11461.7	11443.8	11715.3	12136.0	12338.8	12146.4	11035.1	10261.0	10152.1	9588.2
47.5°	11224.6	11188.8	11587.0	12250.8	12901.2	13239.8	12085.2	11100.8	10942.6	10250.5
50°	10511.6	10477.3	11079.9	11961.4	13090.6	13982.6	13224.8	11991.3	11749.6	10960.5
52.5°	8961.8	8978.2	9922.4	11133.6	12841.5	14445.0	14206.3	12929.5	12638.6	11687.0
55°	6980.9	7016.7	8177.2	9510.7	11845.1	14374.9	14876.1	13896.1	13606.7	12370.1
57.5°	4998.5	5156.6	6244.0	7564.1	9931.3	13263.6	15022.3	14814.9	14534.5	13116.0
60°	3239.8	3268.2	4386.9	5717.4	7562.6	11288.7	14725.4	15511.5	15292.3	13876.7
62.5°	2076.4	2095.7	2777.4	3999.1	5443.0	8351.7	13726.0	15814.3	15747.2	14379.4
65°	1525.9	1511.0	1866.0	2643.2	3666.4	5150.6	11785.4	15668.1	15800.9	14694.1
67.5°	1273.9	1253.0	1427.5	1830.2	2701.4	2925.1	8720.1	14718.0	15204.2	14658.3
70°	1160.5	1142.6	1248.5	1358.9	2107.7	1958.5	4395.9	12795.3	13544.1	14251.1
72.5°	983.0	951.7	1096.4	1206.7	1639.3	1502.1	1816.8	9828.4	10741.3	12945.9
75°	762.2	741.3	865.1	1062.0	1232.1	1172.4	1148.6	5968.0	6964.4	10011.9
77.5°	604.1	575.8	689.1	827.9	1108.3	884.5	836.8	2570.1	3557.6	6391.7
80°	454.9	429.6	523.6	654.8	851.7	666.8	541.5	1048.6	1341.0	3238.3
82.5°	323.7	301.3	365.5	480.3	572.8	598.1	332.6	587.7	660.8	1248.5
85°	207.3	193.9	244.6	301.3	364.0	384.8	202.9	307.3	337.1	514.6
87.5°	113.4	92.5	131.3	140.2	168.6	153.6	97.0	111.9	120.8	186.5
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°
3168.2	0°	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2	3168.2
3174.2	2.5°	3180.2	3184.6	3199.6	3204.0	3214.5	3227.9	3236.9	3245.8	3245.8	3254.8
3221.9	5°	3223.4	3233.9	3265.2	3281.6	3308.4	3335.3	3351.7	3371.1	3383.0	3389.0
3298.0	7.5°	3307.0	3323.4	3368.1	3396.5	3442.7	3480.0	3505.3	3532.2	3538.2	3554.6
3403.9	10°	3420.3	3439.7	3490.4	3544.1	3599.3	3645.6	3669.4	3688.8	3696.3	3699.3
3539.7	12.5°	3550.1	3578.4	3644.1	3709.7	3767.9	3808.1	3814.1	3809.6	3788.8	3770.9
3706.7	15°	3709.7	3735.1	3808.1	3879.7	3936.4	3943.9	3906.6	3882.7	3857.4	3852.9
3893.2	17.5°	3900.6	3914.1	3981.2	4051.3	4055.8	4030.4	3975.2	3952.8	3929.0	3912.6
4136.3	20°	4122.9	4118.4	4166.1	4196.0	4164.6	4087.1	4003.6	3966.3	3942.4	3923.0
4434.6	22.5°	4388.4	4354.1	4348.1	4340.7	4257.1	4094.5	3981.2	3933.4	3896.2	3869.3
4850.8	25°	4774.7	4643.5	4552.5	4501.8	4313.8	4054.3	3909.6	3803.7	3733.6	3687.3
5359.4	27.5°	5258.0	5037.3	4807.5	4683.7	4313.8	3972.2	3736.5	3565.0	3450.2	3402.4
5851.7	30°	5718.9	5487.7	5149.1	4903.0	4303.4	3838.0	3457.6	3219.0	3084.7	3037.0
6272.3	32.5°	6112.7	5860.6	5511.6	5143.2	4278.0	3620.2	3111.6	2847.5	2717.8	2661.1
6688.5	35°	6478.2	6209.7	5875.6	5407.2	4210.9	3301.0	2731.2	2529.8	2385.1	2294.1
7112.1	37.5°	6852.6	6533.4	6220.1	5645.8	4090.1	2928.1	2438.8	2267.3	2097.2	1974.9
7562.6	40°	7259.8	6877.9	6588.6	5787.5	3891.7	2573.1	2212.1	2055.5	1875.0	1745.2
8081.7	42.5°	7735.6	7291.1	6998.8	5860.6	3620.2	2321.0	2064.4	1910.8	1740.7	1634.8
8638.1	45°	8232.3	7746.1	7373.2	5859.1	3317.4	2203.1	2016.7	1864.5	1676.6	1566.2
9209.4	47.5°	8752.9	8221.9	7696.8	5763.7	3054.9	2219.6	1989.8	1764.6	1557.3	1449.9
9786.6	50°	9275.0	8742.5	8010.1	5584.7	2943.0	2183.8	1889.9	1624.4	1379.8	1282.8
10328.1	52.5°	9792.6	9295.9	8280.1	5329.6	2829.6	2051.0	1761.6	1442.4	1306.7	1239.5
10887.5	55°	10313.2	9843.3	8573.9	4958.2	2546.2	1895.9	1546.8	1373.8	1248.5	1187.3
11434.9	57.5°	10835.2	10475.8	8852.9	4586.8	2189.7	1704.9	1429.0	1290.3	1190.3	1138.1
11892.8	60°	11378.2	11199.2	9140.7	4245.2	1837.7	1460.3	1342.5	1223.1	1121.7	1063.5
12332.8	62.5°	11937.6	11995.7	9366.0	3805.2	1514.0	1311.1	1264.9	1142.6	1044.1	989.0
12696.8	65°	12501.4	12763.9	9513.7	3195.1	1227.6	1169.4	1181.4	1054.6	954.6	906.9
12963.8	67.5°	12926.5	13317.3	9471.9	2417.9	1006.9	1035.2	1077.0	962.1	868.1	830.8
12920.6	70°	12974.3	13251.7	9060.2	1655.7	842.8	903.9	960.6	871.1	774.2	747.3
12312.0	72.5°	12338.8	12356.7	7913.1	1081.4	713.0	793.6	838.3	778.6	684.7	657.8
10771.1	75°	10672.7	10219.2	5809.9	713.0	596.7	681.7	723.4	681.7	590.7	596.7
8059.3	77.5°	8086.2	7237.4	3527.7	507.2	498.2	572.8	629.5	599.6	522.1	586.2
4052.8	80°	4166.1	3915.5	1573.7	378.9	393.8	457.9	517.6	478.8	413.2	393.8
905.4	82.5°	954.6	1109.8	620.5	271.5	284.9	329.7	395.3	359.5	296.8	250.6
377.4	85°	334.1	365.5	274.5	170.0	167.1	205.8	268.5	240.2	201.4	161.1
159.6	87.5°	105.9	138.7	102.9	68.6	71.6	92.5	123.8	113.4	94.0	61.2
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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<u>180°</u>
3168.2
3254.8
3392.0
3548.6
3691.8
3770.9
3852.9
3914.1
3924.5
3878.3
3705.2
3426.3
3065.3
2689.4
2324.0
2007.7
1770.6
1655.7
1584.1
1464.8
1288.8
1239.5
1181.4
1129.2
1059.1
987.5
905.4
832.3
748.8
656.3
575.8
516.1
359.5
247.6
170.0
64.1
0.0

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