

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: P949907

Luminaire Tested: **GALN-SB4C-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949907
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-SB4C-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30417 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

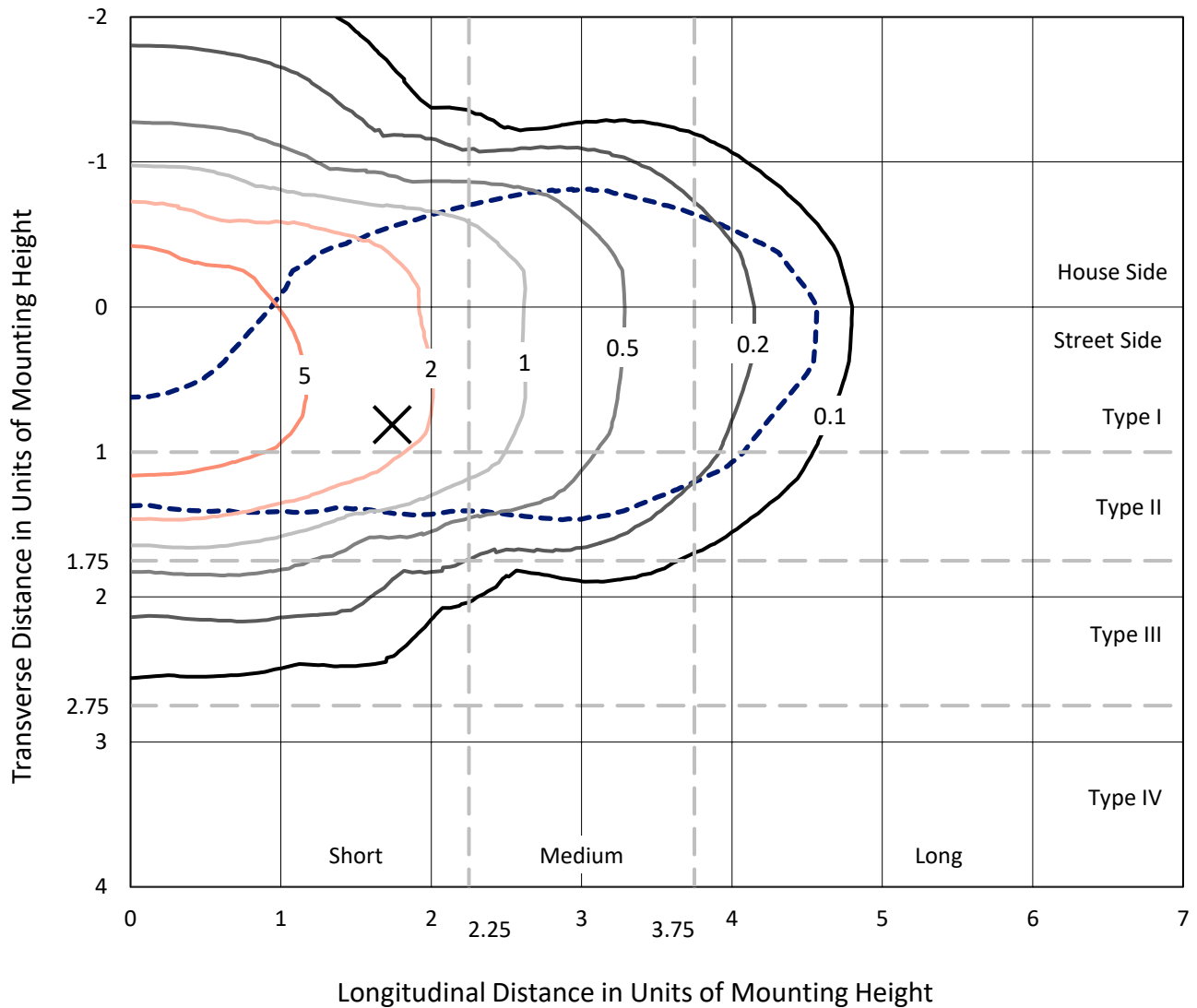
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

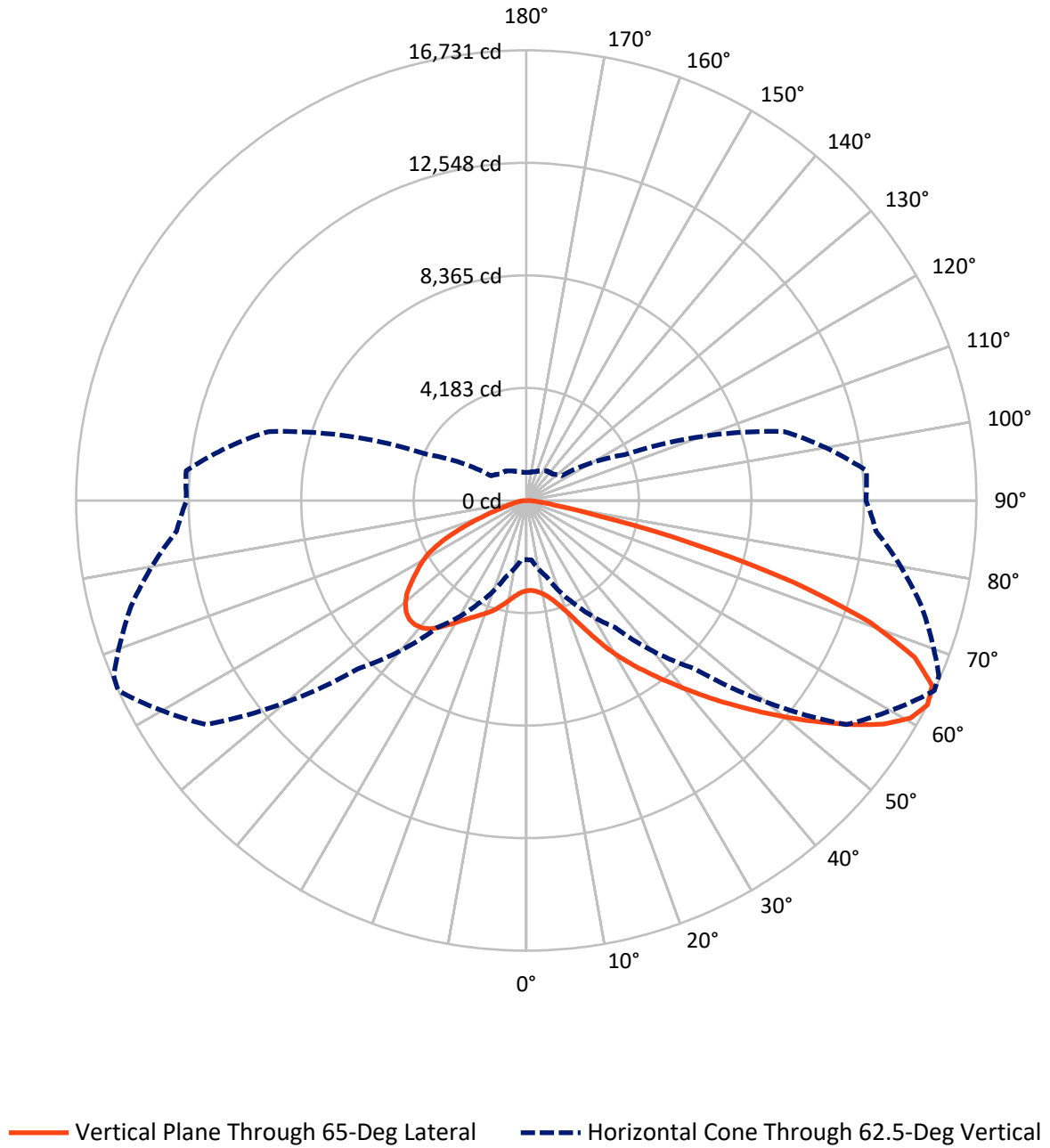
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9598.3	0.0	9598.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20818.7	0.0	20818.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	30417.0	0.0	30417.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.2	1.1
10°-20°	1133.2	3.7
20°-30°	2297.7	7.6
30°-40°	3976.1	13.1
40°-50°	6017.1	19.8
50°-60°	7054.7	23.2
60°-70°	5914.5	19.4
70°-80°	3265.3	10.7
80°-90°	424.1	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°	30417.0	100.0
0°-180°	30417.0	100.0

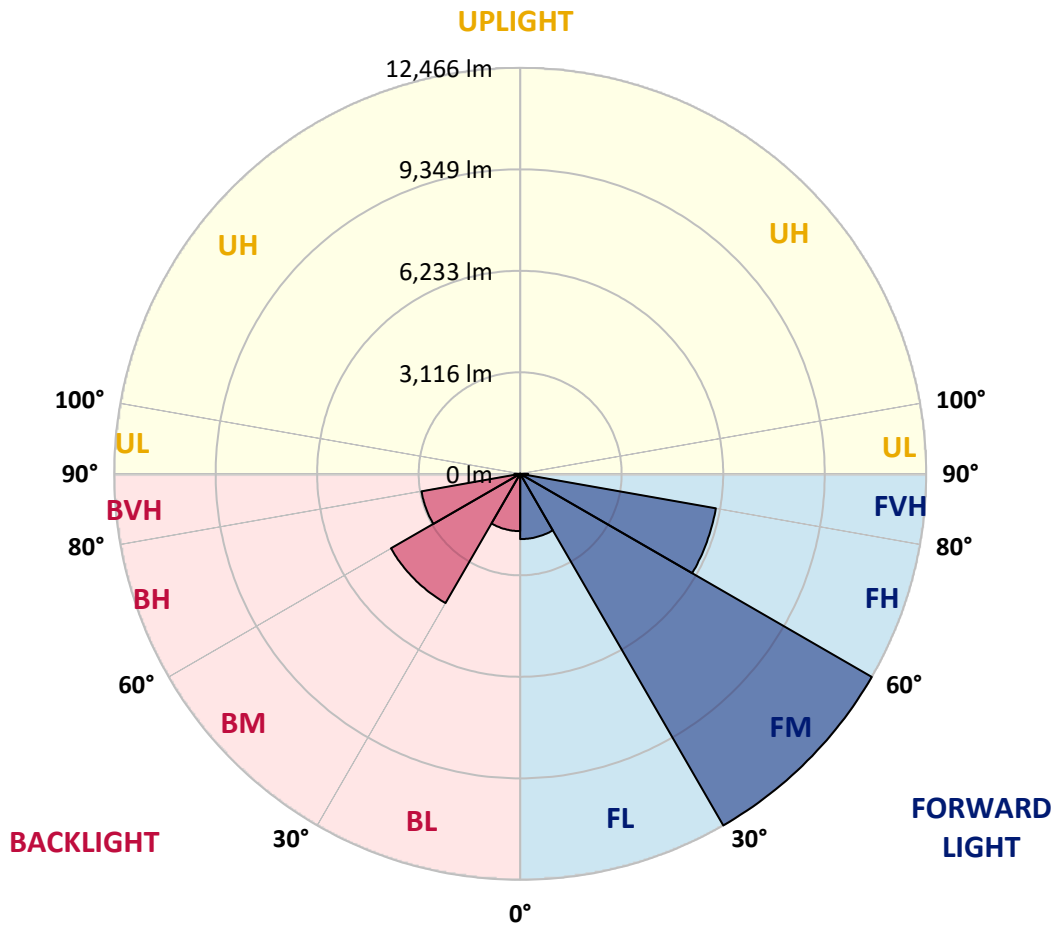


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.9	6.6			
FM (30°-60°)	12465.9	41.0			
FH (60°-80°)	6100.8	20.1			G3/7500
FVH (80°-90°)	247.2	0.8			G3/500
BL (0°-30°)	1760.2	5.8	B3/2500		
BM (30°-60°)	4582.1	15.1	B3/5000		
BH (60°-80°)	3079.0	10.1	B4/5000		G4/5000
BVH (80°-90°)	176.9	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°	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8
2.5°	3329.7	3320.3	3328.2	3328.2	3331.3	3329.7	3340.8	3343.9	3348.7	3358.1
5°	3296.6	3295.0	3309.2	3321.8	3334.5	3345.5	3359.7	3380.2	3383.4	3394.4
7.5°	3285.5	3276.1	3298.2	3313.9	3343.9	3370.8	3408.6	3443.3	3457.6	3462.3
10°	3370.8	3355.0	3375.5	3385.0	3410.2	3437.0	3481.2	3536.5	3552.2	3571.2
12.5°	3515.9	3498.6	3528.6	3542.8	3566.4	3590.1	3620.1	3673.7	3681.6	3716.4
15°	3714.8	3694.3	3713.2	3730.6	3770.0	3792.1	3822.1	3874.2	3874.2	3901.0
17.5°	3984.6	3957.8	3972.0	3978.3	4003.6	4036.7	4087.2	4133.0	4156.6	4147.2
20°	4387.0	4353.9	4353.9	4322.3	4312.9	4339.7	4406.0	4469.1	4494.3	4445.4
22.5°	4991.4	4944.1	4917.3	4810.0	4767.4	4770.5	4836.8	4914.1	4934.6	4847.8
25°	5760.0	5685.8	5649.5	5491.7	5395.4	5311.8	5363.9	5463.3	5491.7	5384.4
27.5°	6528.5	6533.2	6498.5	6309.1	6149.7	5996.7	5969.8	6074.0	6104.0	5982.5
30°	7606.3	7494.3	7428.0	7200.7	6973.5	6758.9	6648.4	6691.0	6698.9	6553.7
32.5°	8535.8	8507.4	8365.4	8166.5	7874.6	7538.4	7353.8	7286.0	7273.3	7066.6
35°	9594.7	9578.9	9429.0	9192.3	8876.6	8409.5	8076.6	7882.5	7866.7	7576.3
37.5°	10670.9	10670.9	10524.2	10265.3	9938.7	9354.8	8848.2	8540.5	8490.0	8111.3
40°	11529.4	11477.3	11504.1	11395.2	11021.2	10401.1	9705.1	9258.5	9190.7	8736.2
42.5°	12017.0	11999.6	12160.6	12282.1	12129.0	11633.5	10648.8	10036.5	9941.8	9424.2
45°	12125.9	12107.0	12394.2	12839.2	13053.8	12850.2	11674.6	10855.5	10740.3	10143.8
47.5°	11875.0	11837.1	12258.5	12960.7	13648.7	14007.0	12785.5	11744.0	11576.7	10844.5
50°	11120.7	11084.4	11721.9	12654.5	13849.1	14792.8	13991.2	12686.1	12430.5	11595.7
52.5°	9481.0	9498.4	10497.3	11778.7	13585.6	15282.0	15029.5	13678.7	13371.0	12364.2
55°	7385.4	7423.2	8651.0	10061.8	12531.5	15207.9	15738.1	14701.3	14395.2	13086.9
57.5°	5288.1	5455.4	6605.8	8002.4	10506.8	14032.2	15892.7	15673.4	15376.7	13876.0
60°	3427.6	3457.6	4641.1	6048.7	8000.8	11942.8	15578.7	16410.4	16178.4	14680.8
62.5°	2196.7	2217.2	2938.4	4230.8	5758.4	8835.6	14521.4	16730.7	16659.7	15212.6
65°	1614.4	1598.6	1974.2	2796.3	3878.9	5449.1	12468.3	16576.1	16716.5	15545.6
67.5°	1347.7	1325.6	1510.2	1936.3	2857.9	3094.6	9225.4	15570.8	16085.3	15507.7
70°	1227.7	1208.8	1320.8	1437.6	2229.8	2072.0	4650.6	13536.7	14328.9	15076.9
72.5°	1039.9	1006.8	1159.9	1276.7	1734.3	1589.1	1922.1	10397.9	11363.7	13696.1
75°	806.4	784.3	915.3	1123.6	1303.5	1240.4	1215.1	6313.9	7368.0	10592.0
77.5°	639.1	609.1	729.1	875.8	1172.5	935.8	885.3	2719.0	3763.7	6762.0
80°	481.3	454.5	553.9	692.8	901.1	705.4	572.8	1109.4	1418.7	3426.0
82.5°	342.4	318.8	386.6	508.1	606.0	632.8	351.9	621.8	699.1	1320.8
85°	219.4	205.1	258.8	318.8	385.0	407.1	214.6	325.1	356.6	544.4
87.5°	119.9	97.8	138.9	148.3	178.3	162.5	102.6	118.4	127.8	197.3
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°
3351.8	0°	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8	3351.8
3358.1	2.5°	3364.4	3369.2	3385.0	3389.7	3400.7	3414.9	3424.4	3433.9	3433.9	3443.3
3408.6	5°	3410.2	3421.3	3454.4	3471.8	3500.2	3528.6	3545.9	3566.4	3579.1	3585.4
3489.1	7.5°	3498.6	3515.9	3563.3	3593.3	3642.2	3681.6	3708.5	3736.9	3743.2	3760.5
3601.2	10°	3618.5	3639.0	3692.7	3749.5	3807.9	3856.8	3882.1	3902.6	3910.5	3913.6
3744.8	12.5°	3755.8	3785.8	3855.2	3924.7	3986.2	4028.8	4035.1	4030.4	4008.3	3989.4
3921.5	15°	3924.7	3951.5	4028.8	4104.6	4164.5	4172.4	4133.0	4107.7	4080.9	4076.2
4118.8	17.5°	4126.7	4140.9	4211.9	4286.0	4290.8	4263.9	4205.6	4181.9	4156.6	4139.3
4376.0	20°	4361.8	4357.1	4407.6	4439.1	4406.0	4323.9	4235.5	4196.1	4170.8	4150.3
4691.6	22.5°	4642.7	4606.4	4600.1	4592.2	4503.8	4331.8	4211.9	4161.4	4121.9	4093.5
5131.9	25°	5051.4	4912.5	4816.3	4762.6	4563.8	4289.2	4136.1	4024.1	3949.9	3901.0
5670.0	27.5°	5562.7	5329.1	5086.1	4955.1	4563.8	4202.4	3953.1	3771.6	3650.1	3599.6
6190.8	30°	6050.3	5805.7	5447.5	5187.1	4552.7	4060.4	3658.0	3405.5	3263.4	3213.0
6635.8	32.5°	6466.9	6200.2	5831.0	5441.2	4525.9	3830.0	3291.9	3012.5	2875.2	2815.3
7076.1	35°	6853.6	6569.5	6216.0	5720.5	4454.9	3492.3	2889.4	2676.4	2523.3	2427.1
7524.2	37.5°	7249.7	6911.9	6580.6	5973.0	4327.1	3097.8	2580.1	2398.7	2218.8	2089.4
8000.8	40°	7680.5	7276.5	6970.3	6122.9	4117.2	2722.2	2340.3	2174.6	1983.6	1846.3
8550.0	42.5°	8183.9	7713.6	7404.3	6200.2	3830.0	2455.5	2184.0	2021.5	1841.6	1729.6
9138.6	45°	8709.4	8194.9	7800.4	6198.7	3509.6	2330.8	2133.6	1972.6	1773.8	1657.0
9743.0	47.5°	9260.1	8698.3	8142.8	6097.7	3231.9	2348.2	2105.1	1866.9	1647.5	1533.9
10353.7	50°	9812.4	9249.1	8474.2	5908.3	3113.5	2310.3	1999.4	1718.5	1459.7	1357.1
10926.6	52.5°	10360.0	9834.5	8759.9	5638.4	2993.6	2169.8	1863.7	1526.0	1382.4	1311.4
11518.3	55°	10910.8	10413.7	9070.7	5245.5	2693.8	2005.7	1636.5	1453.4	1320.8	1256.1
12097.5	57.5°	11463.1	11082.8	9365.8	4852.6	2316.6	1803.7	1511.8	1365.0	1259.3	1204.1
12582.0	60°	12037.5	11848.2	9670.4	4491.2	1944.2	1544.9	1420.3	1294.0	1186.7	1125.2
13047.5	62.5°	12629.3	12690.8	9908.7	4025.7	1601.7	1387.1	1338.2	1208.8	1104.6	1046.3
13432.5	65°	13225.8	13503.5	10064.9	3380.2	1298.8	1237.2	1249.8	1115.7	1010.0	959.5
13715.0	67.5°	13675.6	14089.0	10020.7	2558.1	1065.2	1095.2	1139.4	1017.9	918.4	879.0
13669.2	70°	13726.1	14019.6	9585.2	1751.7	891.6	956.3	1016.3	921.6	819.0	790.6
13025.4	72.5°	13053.8	13072.7	8371.7	1144.1	754.3	839.5	886.9	823.8	724.3	695.9
11395.2	75°	11291.1	10811.4	6146.6	754.3	631.2	721.2	765.4	721.2	624.9	631.2
8526.3	77.5°	8554.7	7656.8	3732.1	536.5	527.1	606.0	665.9	634.4	552.3	620.2
4287.6	80°	4407.6	4142.4	1664.9	400.8	416.6	484.5	547.6	506.6	437.1	416.6
957.9	82.5°	1010.0	1174.1	656.5	287.2	301.4	348.8	418.2	380.3	314.0	265.1
399.3	85°	353.5	386.6	290.4	179.9	176.7	217.8	284.1	254.1	213.0	170.4
168.9	87.5°	112.0	146.8	108.9	72.6	75.7	97.8	131.0	119.9	99.4	64.7
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>
3351.8
3443.3
3588.5
3754.2
3905.7
3989.4
4076.2
4140.9
4151.9
4103.0
3919.9
3624.8
3242.9
2845.3
2458.6
2124.1
1873.2
1751.7
1675.9
1549.7
1363.5
1311.4
1249.8
1194.6
1120.4
1044.7
957.9
880.6
792.2
694.4
609.1
546.0
380.3
262.0
179.9
67.9
0.0

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