

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: P941122

Luminaire Tested: **GALN-SB4C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29752 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

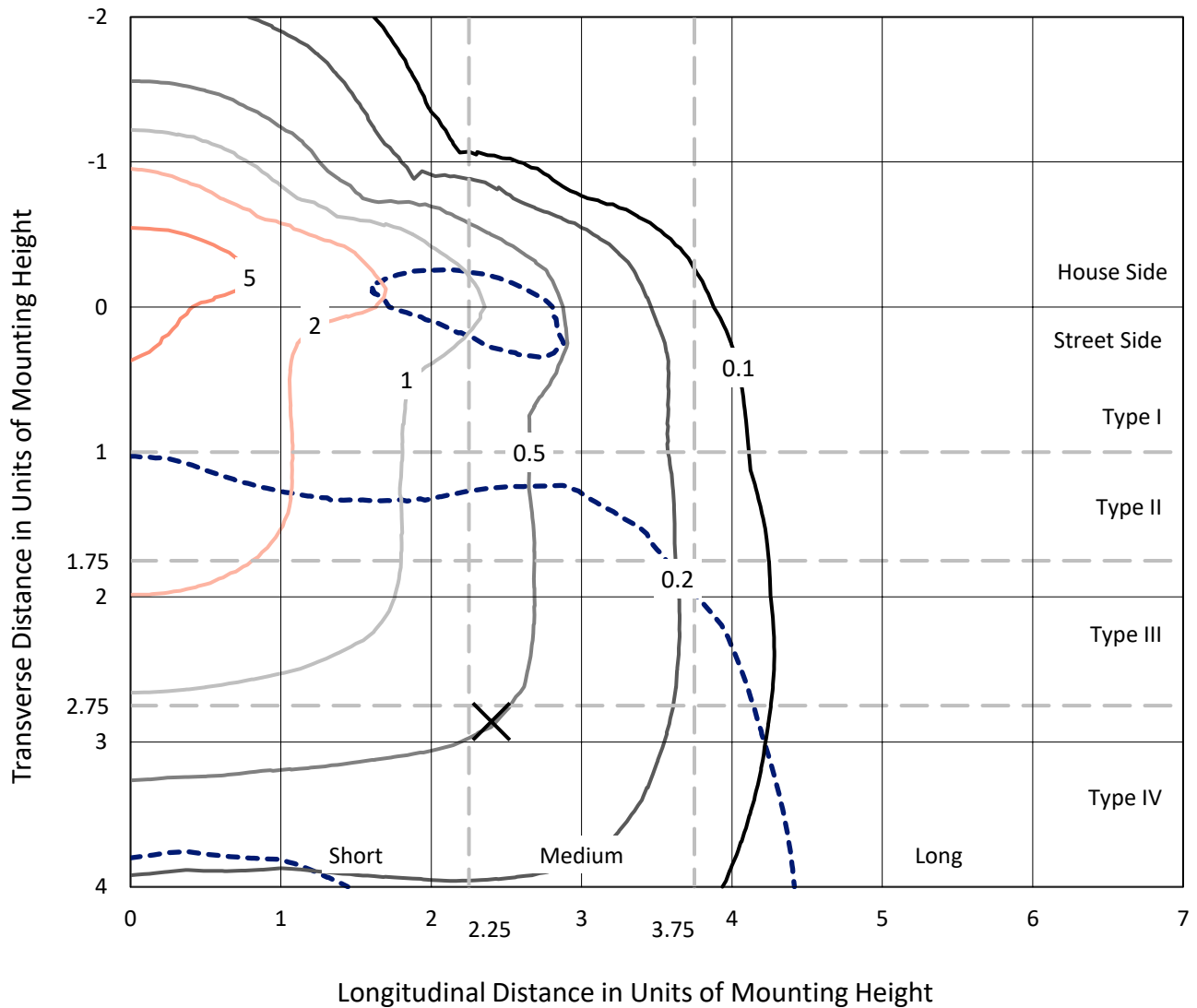
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

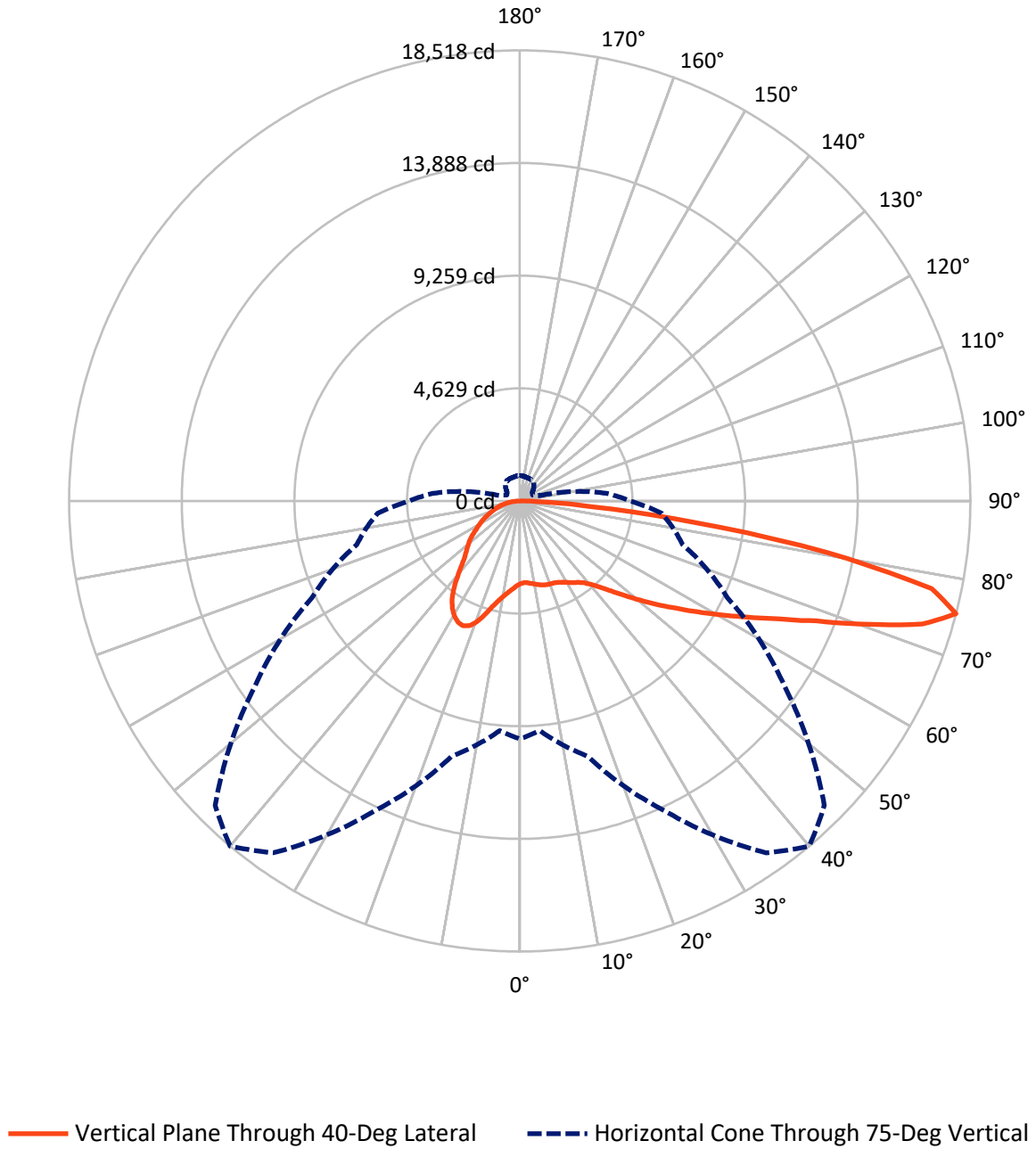
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9218.2	0.0	9218.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20533.8	0.0	20533.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	29752.0	0.0	29752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	1.1
10°-20°	1140.2	3.8
20°-30°	2081.9	7.0
30°-40°	2952.7	9.9
40°-50°	3987.1	13.4
50°-60°	5363.7	18.0
60°-70°	6807.7	22.9
70°-80°	6178.4	20.8
80°-90°	900.6	3.0
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°	29752.0	100.0
0°-180°	29752.0	100.0

Coefficient of Utilization



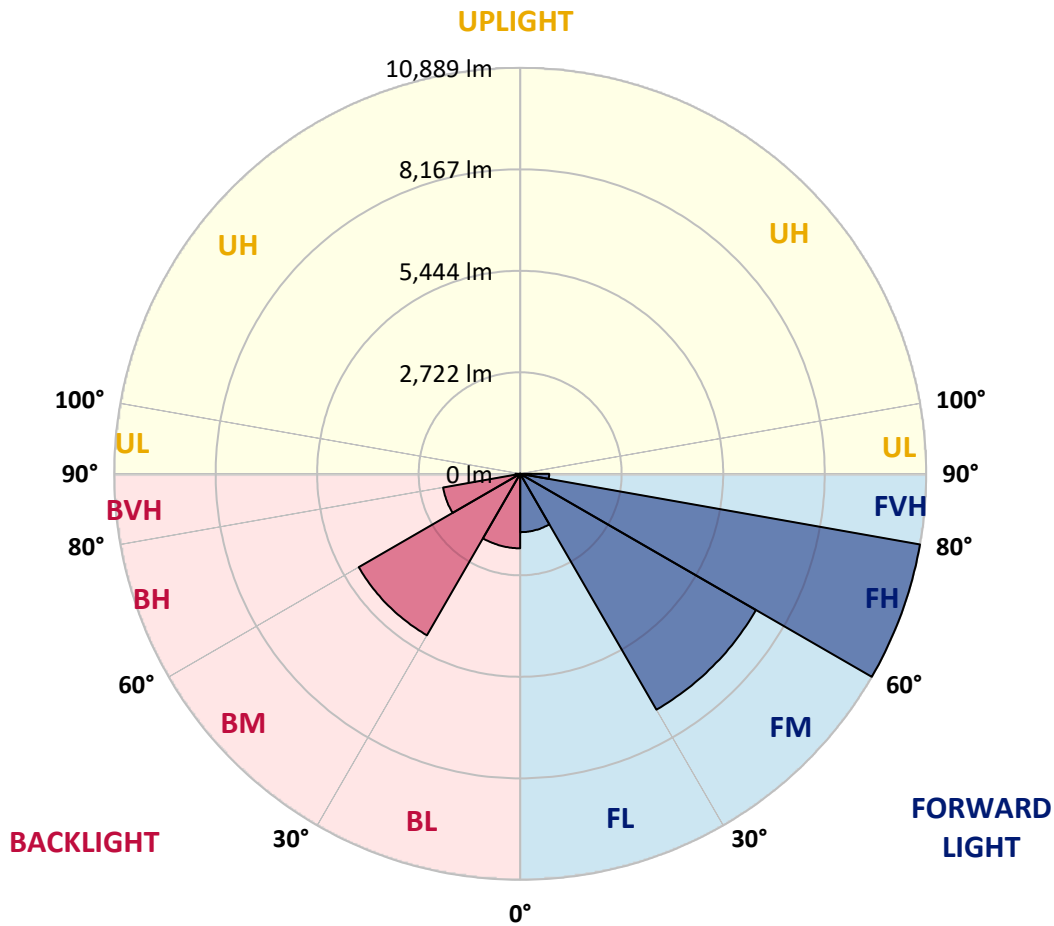
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1565.0	5.3			
FM (30°-60°)	7303.5	24.5			
FH (60°-80°)	10888.8	36.6			G4/12000
FVH (80°-90°)	776.6	2.6			G5
BL (0°-30°)	1996.7	6.7	B3/2500		
BM (30°-60°)	5000.0	16.8	B4/8500		
BH (60°-80°)	2097.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	124.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2
2.5°	3350.1	3369.0	3364.3	3358.0	3358.0	3359.6	3358.0	3369.0	3380.1	3391.1
5°	3384.8	3403.8	3394.3	3386.4	3380.1	3378.5	3373.8	3372.2	3378.5	3392.7
7.5°	3452.7	3471.6	3457.4	3443.2	3430.6	3424.3	3418.0	3408.5	3403.8	3411.6
10°	3528.4	3547.4	3530.0	3504.8	3484.2	3476.3	3470.0	3460.6	3454.3	3459.0
12.5°	3604.2	3623.1	3599.4	3564.7	3537.9	3533.2	3525.3	3522.1	3520.5	3519.0
15°	3675.2	3691.0	3661.0	3619.9	3591.5	3583.7	3575.8	3580.5	3588.4	3597.9
17.5°	3730.4	3746.2	3702.0	3648.3	3621.5	3618.4	3613.6	3629.4	3651.5	3675.2
20°	3780.9	3796.7	3739.9	3667.3	3635.7	3635.7	3637.3	3670.4	3702.0	3736.7
22.5°	3851.9	3864.5	3795.1	3695.7	3649.9	3653.1	3665.7	3698.8	3738.3	3785.6
25°	3957.6	3967.1	3881.9	3749.3	3697.3	3706.7	3717.8	3733.6	3771.4	3826.7
27.5°	4128.1	4136.0	4023.9	3844.0	3765.1	3780.9	3796.7	3785.6	3803.0	3850.3
30°	4367.9	4372.7	4230.6	3992.4	3880.3	3888.2	3891.4	3845.6	3812.5	3850.3
32.5°	4652.0	4650.4	4481.5	4172.2	4011.3	4003.4	3976.6	3886.6	3809.3	3842.4
35°	5092.2	5074.9	4857.1	4424.7	4159.6	4110.7	4047.6	3932.4	3825.1	3834.6
37.5°	5821.3	5767.6	5466.2	4838.2	4380.5	4255.9	4162.8	4006.6	3859.8	3831.4
40°	6643.4	6575.6	6244.2	5404.7	4711.9	4511.5	4361.6	4112.3	3916.6	3845.6
42.5°	7618.6	7522.4	7165.7	6072.2	5131.7	4841.3	4615.7	4246.4	4000.2	3891.4
45°	8816.3	8688.5	8183.5	6824.9	5660.3	5273.7	4972.3	4450.0	4128.1	3979.7
47.5°	10026.6	10058.2	9340.2	7686.5	6294.7	5807.1	5418.9	4756.1	4314.3	4121.8
50°	11312.7	11334.8	10490.6	8641.2	7014.2	6409.9	5920.7	5098.5	4573.1	4323.7
52.5°	12316.3	12319.5	11535.2	9640.0	7763.8	7072.6	6461.9	5489.9	4872.9	4592.0
55°	12944.4	12936.5	12267.4	10585.3	8625.4	7768.5	7061.6	5934.9	5239.0	4907.6
57.5°	13400.4	13376.8	12772.4	11397.9	9543.8	8590.7	7740.1	6439.8	5671.4	5283.2
60°	13574.0	13559.8	13114.8	12100.1	10509.5	9499.6	8522.8	7004.8	6162.1	5726.6
62.5°	13640.3	13667.1	13450.9	12780.3	11543.1	10506.4	9382.8	7680.2	6714.4	6228.4
65°	13873.8	13922.7	13878.6	13670.3	12710.8	11685.1	10523.7	8483.4	7317.2	6766.5
67.5°	14336.2	14385.1	14404.0	14735.4	14137.4	13154.3	11947.1	9483.8	8022.6	7325.1
70°	14325.1	14310.9	14645.5	15582.8	15923.7	15188.3	13865.9	10714.7	8863.7	7789.0
72.5°	13039.1	12925.4	13716.0	15573.3	17410.1	17312.3	16209.3	12302.1	9589.5	7845.8
75°	9782.1	9479.1	10875.6	14034.8	17657.9	18517.9	17698.9	13286.8	9417.5	6932.2
77.5°	4183.3	3878.7	5524.6	10389.6	15803.7	17310.7	16332.4	11592.0	7517.6	4584.1
80°	1095.1	1093.6	1669.5	4710.3	10747.8	12783.4	11214.9	7486.1	4295.3	1638.0
82.5°	452.9	441.8	613.8	1832.1	5251.6	7173.6	5854.4	3339.1	1551.2	443.4
85°	168.8	167.3	298.2	632.8	1852.6	2958.8	2141.4	853.7	386.6	216.2
87.5°	47.3	45.8	64.7	219.3	451.3	684.9	366.1	140.4	108.9	85.2
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°
3402.2	0°	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2	3402.2
3408.5	2.5°	3413.2	3421.1	3435.3	3446.4	3460.6	3476.3	3498.4	3512.6	3526.8	3536.3
3416.4	5°	3427.4	3444.8	3481.1	3517.4	3560.0	3599.4	3645.2	3678.3	3705.2	3713.0
3444.8	7.5°	3459.0	3487.4	3548.9	3610.5	3678.3	3743.0	3809.3	3866.1	3911.9	3929.2
3495.3	10°	3514.2	3552.1	3638.9	3725.7	3815.6	3915.0	4000.2	4082.3	4147.0	4173.8
3555.2	12.5°	3583.7	3631.0	3744.6	3864.5	3989.2	4126.5	4236.9	4337.9	4418.4	4454.7
3638.9	15°	3673.6	3735.1	3880.3	4041.3	4224.3	4415.3	4555.7	4667.7	4757.7	4801.9
3725.7	17.5°	3771.4	3853.5	4036.5	4279.6	4541.5	4792.4	4956.5	5038.6	5131.7	5174.3
3806.2	20°	3866.1	3967.1	4229.1	4582.5	4931.3	5198.0	5330.5	5352.6	5358.9	5363.6
3881.9	22.5°	3964.0	4099.7	4470.5	4964.4	5338.4	5523.0	5542.0	5447.3	5314.7	5253.2
3956.1	25°	4071.3	4251.1	4786.1	5385.7	5688.7	5710.8	5565.6	5335.2	5084.3	4969.1
4016.0	27.5°	4175.4	4426.3	5164.8	5788.1	5941.2	5747.1	5434.7	5108.0	4805.0	4683.5
4058.6	30°	4279.6	4626.7	5583.0	6140.0	6056.4	5657.2	5227.9	4863.4	4558.9	4431.0
4096.5	32.5°	4385.3	4860.3	6064.3	6394.1	6035.9	5466.2	4970.7	4588.8	4320.6	4186.4
4129.6	35°	4505.2	5147.5	6520.3	6532.9	5898.6	5185.3	4631.4	4260.6	4027.1	3919.8
4169.1	37.5°	4661.4	5512.0	6922.7	6567.7	5658.7	4773.5	4210.1	3872.4	3679.9	3631.0
4227.5	40°	4855.5	5950.7	7230.4	6512.4	5303.7	4273.2	3749.3	3479.5	3370.6	3381.7
4306.4	42.5°	5108.0	6441.4	7446.6	6370.4	4809.8	3757.2	3345.4	3225.4	3277.5	3321.7
4424.7	45°	5436.2	6951.1	7580.7	6129.0	4251.1	3320.1	3107.1	3135.5	3174.9	3179.7
4615.7	47.5°	5856.0	7467.1	7669.1	5764.5	3681.5	3012.4	2955.6	2961.9	2954.0	2920.9
4901.3	50°	6379.9	7968.9	7748.0	5281.6	3197.0	2819.9	2744.2	2722.1	2613.2	2505.9
5281.6	52.5°	6976.4	8429.7	7781.1	4681.9	2819.9	2658.9	2535.9	2397.0	2193.4	2160.3
5759.7	55°	7639.1	8855.8	7695.9	3945.0	2502.7	2452.2	2266.0	2098.7	2076.7	2048.3
6389.3	57.5°	8431.3	9315.0	7522.4	3122.9	2177.6	2210.8	2029.3	2048.3	2008.8	1964.6
7198.9	60°	9297.6	9789.9	7217.8	2373.3	1841.5	1909.4	1967.8	1966.2	1955.1	1918.9
8052.6	62.5°	10077.1	10102.4	6618.2	1817.9	1546.4	1675.8	1835.2	1833.6	1824.2	1803.7
8944.1	65°	10541.1	10055.1	5617.7	1431.3	1303.4	1483.3	1655.3	1668.0	1669.5	1668.0
9614.8	67.5°	10459.0	9501.2	4244.8	1139.3	1103.0	1287.7	1477.0	1494.4	1507.0	1510.2
9700.0	70°	9531.2	8284.5	2767.8	908.9	924.7	1115.7	1308.2	1325.5	1336.6	1349.2
8417.1	72.5°	7429.3	6091.1	1584.3	735.4	768.5	967.3	1140.9	1161.4	1167.7	1191.4
5857.6	75°	4527.3	3582.1	855.3	579.1	631.2	826.9	975.2	998.9	1009.9	1038.3
2876.7	77.5°	2152.4	1551.2	487.6	451.3	508.1	675.4	823.7	850.5	820.6	836.3
793.7	80°	727.5	576.0	307.7	344.0	388.2	527.1	659.6	686.4	623.3	620.2
263.5	82.5°	254.1	233.5	195.7	228.8	250.9	377.1	498.6	533.4	463.9	462.4
118.4	85°	99.4	94.7	108.9	124.7	149.9	232.0	328.2	345.6	285.6	230.4
34.7	87.5°	20.5	22.1	26.8	28.4	45.8	80.5	118.4	145.2	115.2	97.8
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>
3402.2
3530.0
3716.2
3930.8
4175.4
4454.7
4798.7
5172.7
5376.3
5270.5
4986.5
4697.7
4445.2
4203.8
3943.4
3665.7
3419.5
3362.7
3211.2
2946.1
2520.1
2171.3
2053.0
1956.7
1906.2
1795.8
1668.0
1513.3
1355.5
1200.9
1041.5
823.7
613.8
440.3
227.2
89.9
0.0

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