

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: P951423

Luminaire Tested: **GALN-SB5C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32832 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

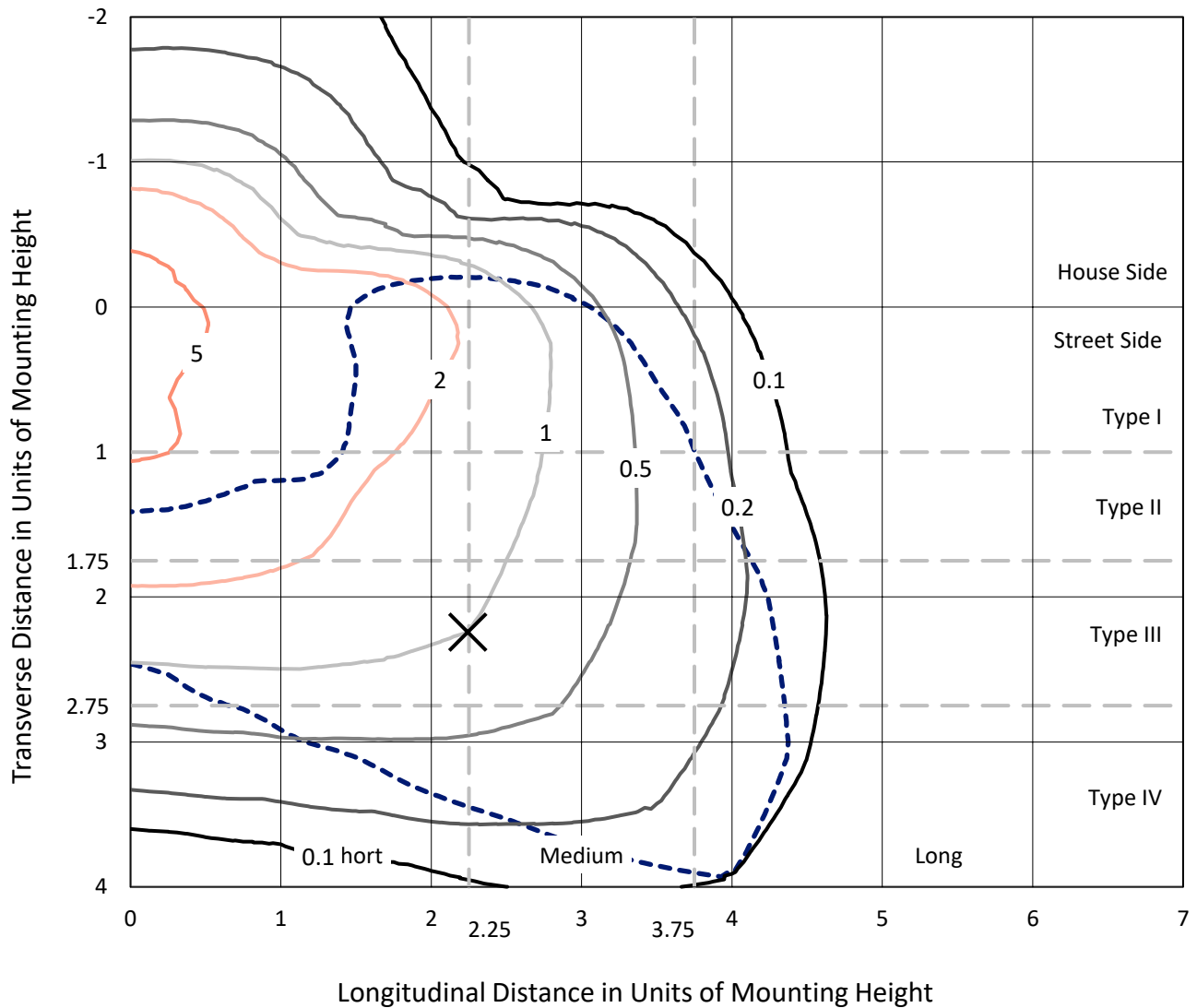
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

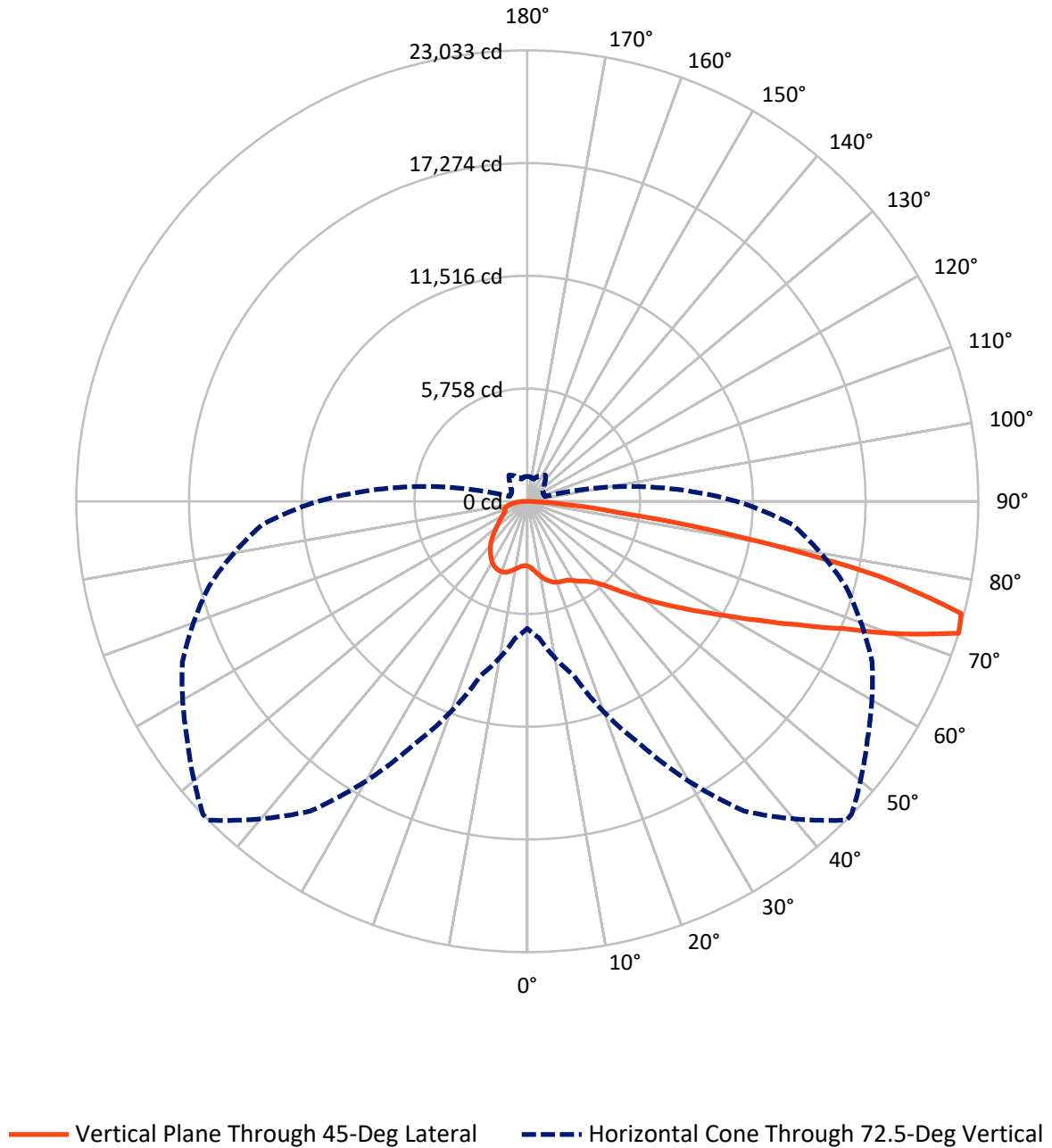
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	7422.2	0.0	7422.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25409.8	0.0	25409.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	32832.0	0.0	32832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.1	1.0
10°-20°	1124.0	3.4
20°-30°	1955.2	6.0
30°-40°	2802.9	8.5
40°-50°	3946.6	12.0
50°-60°	6045.0	18.4
60°-70°	8757.2	26.7
70°-80°	6993.1	21.3
80°-90°	871.0	2.7
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°	32832.0	100.0
0°-180°	32832.0	100.0

Coefficient of Utilization



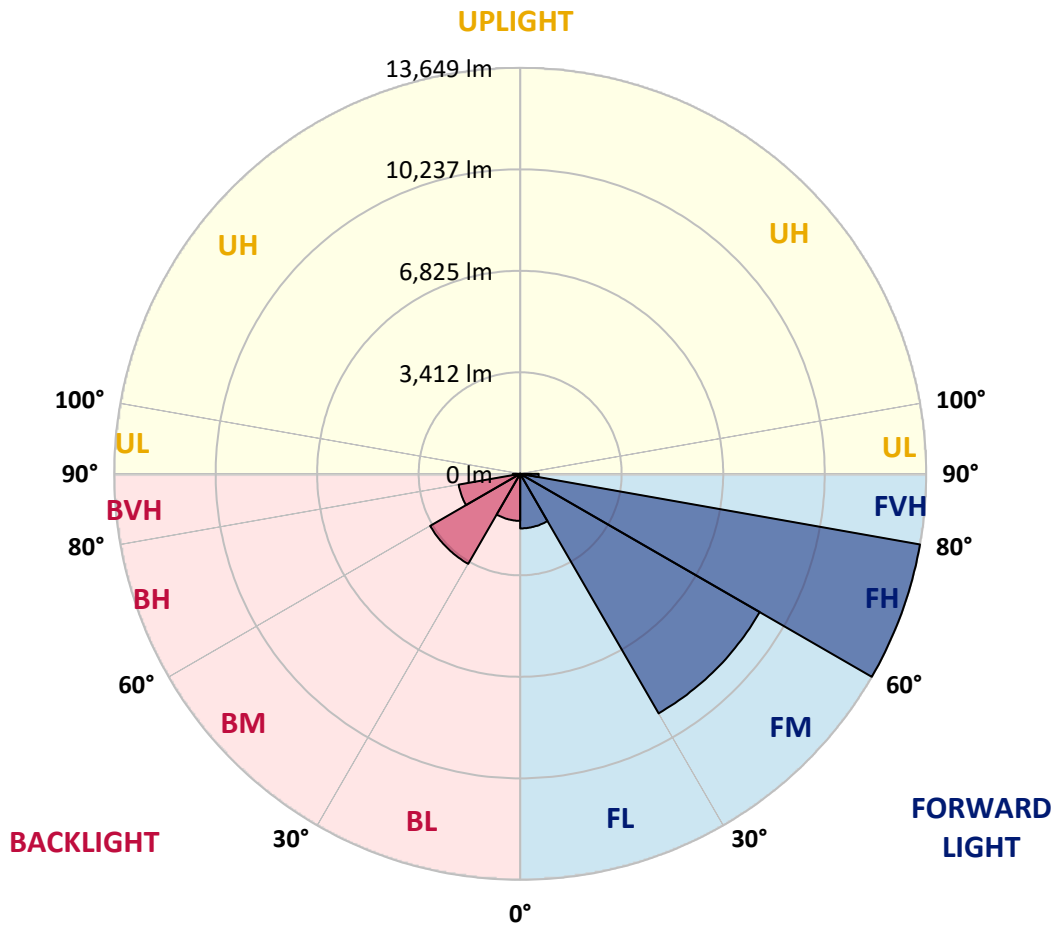
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.0	5.6			
FM (30°-60°)	9299.7	28.3			
FH (60°-80°)	13649.2	41.6			G5
FVH (80°-90°)	624.8	1.9			G4/750
BL (0°-30°)	1580.2	4.8	B3/2500		
BM (30°-60°)	3494.8	10.6	B3/5000		
BH (60°-80°)	2101.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	246.1	0.7			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°	45°	46°	55°	65°	75°
0°	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1
2.5°	3441.8	3464.3	3443.6	3424.5	3415.9	3393.4	3391.7	3377.8	3369.2	3345.0
5°	3682.2	3711.6	3677.0	3639.0	3604.4	3549.1	3542.1	3502.4	3457.4	3405.5
7.5°	3953.8	3979.7	3939.9	3882.9	3822.3	3730.7	3728.9	3656.3	3585.4	3497.2
10°	4190.7	4225.3	4171.7	4093.9	4017.8	3914.0	3901.9	3818.9	3728.9	3614.8
12.5°	4400.0	4424.2	4372.3	4277.2	4189.0	4085.2	4069.7	3978.0	3877.7	3748.0
15°	4566.0	4597.2	4528.0	4425.9	4332.6	4230.5	4216.7	4133.7	4033.3	3896.7
17.5°	4675.0	4700.9	4630.0	4515.9	4425.9	4341.2	4330.8	4261.6	4173.4	4035.1
20°	4716.5	4744.2	4669.8	4553.9	4470.9	4405.2	4400.0	4349.8	4289.3	4163.1
22.5°	4758.0	4784.0	4687.1	4566.0	4493.4	4451.9	4450.2	4417.3	4393.1	4289.3
25°	4925.8	4932.7	4803.0	4628.3	4524.5	4488.2	4486.5	4484.8	4495.1	4413.8
27.5°	5071.1	5069.3	4958.7	4794.3	4633.5	4557.4	4555.7	4573.0	4605.8	4538.4
30°	5283.8	5264.8	5133.3	4962.1	4815.1	4697.5	4687.1	4671.5	4697.5	4643.9
32.5°	5735.2	5674.7	5462.0	5157.6	4965.6	4875.6	4861.8	4764.9	4775.3	4742.5
35°	6382.1	6302.5	6018.9	5527.7	5152.4	5024.4	5017.5	4894.7	4873.9	4844.5
37.5°	7151.7	7053.2	6722.8	6063.8	5474.1	5197.3	5187.0	5076.3	4991.5	4960.4
40°	7924.8	7800.3	7527.1	6717.6	5948.0	5486.2	5453.3	5285.5	5188.7	5136.8
42.5°	8675.5	8571.7	8338.2	7450.9	6532.6	5908.2	5835.5	5548.4	5475.8	5427.4
45°	9339.6	9246.2	9075.0	8234.4	7217.5	6482.4	6411.5	5942.8	5920.3	5920.3
47.5°	9879.3	9858.5	9676.9	9033.5	8025.2	7136.2	7013.4	6491.0	6551.6	6645.0
50°	10477.7	10420.6	10226.9	9820.4	8974.7	7885.1	7784.8	7163.8	7390.4	7646.4
52.5°	11027.7	11058.8	10842.6	10640.3	10047.0	8720.4	8544.0	7957.7	8447.2	8870.9
55°	11593.2	11595.0	11534.4	11506.8	11171.2	9644.0	9450.3	8912.4	9690.7	10216.5
57.5°	12124.2	12127.7	12217.6	12461.5	12475.3	10709.4	10489.8	10085.1	11072.7	11608.8
60°	12598.1	12622.3	12867.9	13438.7	13622.0	11930.5	11723.0	11470.5	12501.3	13040.9
62.5°	12757.2	12845.5	13392.0	14203.2	14754.9	13428.3	13224.2	13073.8	14002.5	14504.1
65°	12487.4	12689.8	13746.6	14834.4	15920.6	15208.0	15005.7	14841.4	15562.6	16034.8
67.5°	11825.0	12086.2	13725.8	15496.9	17335.4	17349.2	17160.7	16775.0	17235.1	17416.7
70°	10079.9	10470.8	12516.8	15744.2	18959.5	20277.4	20095.8	19103.0	18904.1	18025.5
72.5°	6494.5	7020.3	9216.8	13708.5	19320.9	23032.6	23022.2	21204.4	19431.6	16842.5
75°	2369.5	2691.2	4282.4	8604.6	16218.1	22892.5	22959.9	20844.7	17738.4	13009.8
77.5°	863.1	944.3	1397.5	3306.9	9974.4	18367.9	18508.0	16664.3	12625.8	6529.1
80°	453.1	498.1	716.0	1283.3	4273.7	10908.3	11128.0	9903.5	5934.1	1966.5
82.5°	250.8	271.5	401.3	697.0	1925.0	4664.6	4796.1	3912.3	2087.6	833.6
85°	134.9	143.6	188.5	380.5	940.9	1617.1	1653.5	1169.2	831.9	489.5
87.5°	39.8	48.4	62.3	121.1	368.4	363.2	371.9	231.8	328.6	247.3
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°
3312.1	0°	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1	3312.1
3338.1	2.5°	3327.7	3322.5	3303.5	3294.8	3284.4	3282.7	3291.4	3293.1	3294.8	3296.5
3376.1	5°	3358.8	3341.5	3324.2	3313.8	3317.3	3319.0	3336.3	3348.4	3357.1	3364.0
3447.0	7.5°	3419.3	3405.5	3376.1	3374.4	3379.6	3395.1	3417.6	3445.3	3460.9	3473.0
3538.7	10°	3509.3	3483.3	3448.7	3453.9	3464.3	3486.8	3533.5	3556.0	3581.9	3604.4
3651.1	12.5°	3600.9	3578.5	3538.7	3542.1	3559.4	3599.2	3644.2	3671.9	3689.2	3706.4
3772.2	15°	3720.3	3680.5	3637.3	3637.3	3668.4	3711.6	3732.4	3754.9	3765.3	3784.3
3901.9	17.5°	3843.1	3791.2	3734.1	3730.7	3768.7	3789.5	3801.6	3805.0	3808.5	3829.2
4028.1	20°	3965.9	3908.8	3827.5	3820.6	3829.2	3825.8	3824.1	3820.6	3825.8	3851.7
4157.9	22.5°	4087.0	4021.2	3908.8	3877.7	3853.5	3820.6	3818.9	3817.1	3820.6	3846.5
4298.0	25°	4228.8	4149.2	3998.7	3905.3	3824.1	3779.1	3784.3	3786.0	3789.5	3810.2
4443.2	27.5°	4382.7	4294.5	4081.8	3896.7	3749.7	3718.6	3709.9	3715.1	3727.2	3760.1
4588.5	30°	4536.6	4432.9	4157.9	3862.1	3656.3	3613.1	3585.4	3597.5	3635.5	3668.4
4714.8	32.5°	4676.7	4573.0	4218.4	3786.0	3537.0	3469.5	3433.2	3448.7	3486.8	3498.9
4854.9	35°	4841.0	4723.4	4244.3	3664.9	3407.2	3303.5	3255.0	3232.5	3251.6	3239.5
5019.2	37.5°	5024.4	4901.6	4240.9	3505.8	3255.0	3135.7	3068.2	2983.5	2943.7	2902.2
5261.3	40°	5295.9	5119.5	4199.4	3313.8	3066.5	2957.5	2836.5	2692.9	2603.0	2521.7
5652.2	42.5°	5666.0	5422.2	4123.3	3102.8	2853.8	2751.7	2587.4	2419.7	2277.8	2142.9
6245.4	45°	6217.8	5818.2	4028.1	2878.0	2623.7	2523.4	2345.3	2156.8	1995.9	1823.0
7087.7	47.5°	7013.4	6350.9	3938.2	2622.0	2381.6	2289.9	2129.1	1954.4	1764.2	1596.4
8305.4	50°	8106.5	7115.4	3855.2	2373.0	2142.9	2073.7	1945.8	1767.6	1575.6	1440.7
9732.2	52.5°	9497.0	8154.9	3820.6	2132.5	1919.8	1893.9	1791.8	1625.8	1444.2	1330.0
11396.1	55°	11093.4	9398.4	3820.6	1902.5	1724.4	1733.0	1662.1	1508.2	1350.8	1248.7
13111.8	57.5°	12722.7	10657.6	3751.4	1689.8	1558.3	1594.7	1549.7	1414.8	1273.0	1167.5
14915.7	60°	14223.9	11712.6	3471.2	1496.1	1411.3	1468.4	1439.0	1323.1	1150.2	1062.0
16423.9	62.5°	15377.5	12307.6	2931.6	1342.1	1290.3	1356.0	1340.4	1202.0	1127.7	1091.4
17662.3	65°	15955.2	12210.7	2241.5	1205.5	1188.2	1290.3	1257.4	1252.2	1193.4	1151.9
18065.3	67.5°	15600.6	11377.1	1625.8	1105.2	1129.4	1229.7	1356.0	1376.7	1267.8	1186.5
16930.7	70°	14045.8	9868.9	1210.7	1010.1	1055.0	1231.4	1546.2	1440.7	1243.6	1148.4
13578.8	72.5°	10685.2	7359.3	939.2	909.7	958.2	1240.1	1631.0	1411.3	1174.4	1269.5
8459.3	75°	6110.5	4040.3	754.1	787.0	837.1	1158.8	1587.7	1335.2	1120.8	1165.7
3351.9	77.5°	2329.7	1553.1	622.6	665.9	672.8	1011.8	1518.6	1330.0	1067.1	1041.2
1004.9	80°	807.7	607.1	515.4	529.2	520.6	899.4	1456.3	1157.1	873.4	781.8
415.1	82.5°	330.3	302.7	408.2	390.9	370.1	698.7	1176.1	946.1	714.3	631.3
200.6	85°	143.6	192.0	269.8	236.9	214.5	484.3	942.6	800.8	603.6	520.6
65.7	87.5°	29.4	72.6	114.2	107.2	110.7	323.4	669.3	569.0	427.2	320.0
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°
3312.1
3303.5
3367.5
3476.4
3599.2
3713.4
3791.2
3836.2
3862.1
3863.8
3837.9
3792.9
3704.7
3542.1
3277.5
2928.1
2526.9
2130.8
1802.2
1577.4
1432.1
1321.4
1238.4
1150.2
1048.1
1079.2
1138.1
1172.6
1132.9
1259.1
1165.7
949.5
755.8
624.4
518.9
250.8
0.0

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