

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: P941337

Luminaire Tested: **GALN-SB4D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35488 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

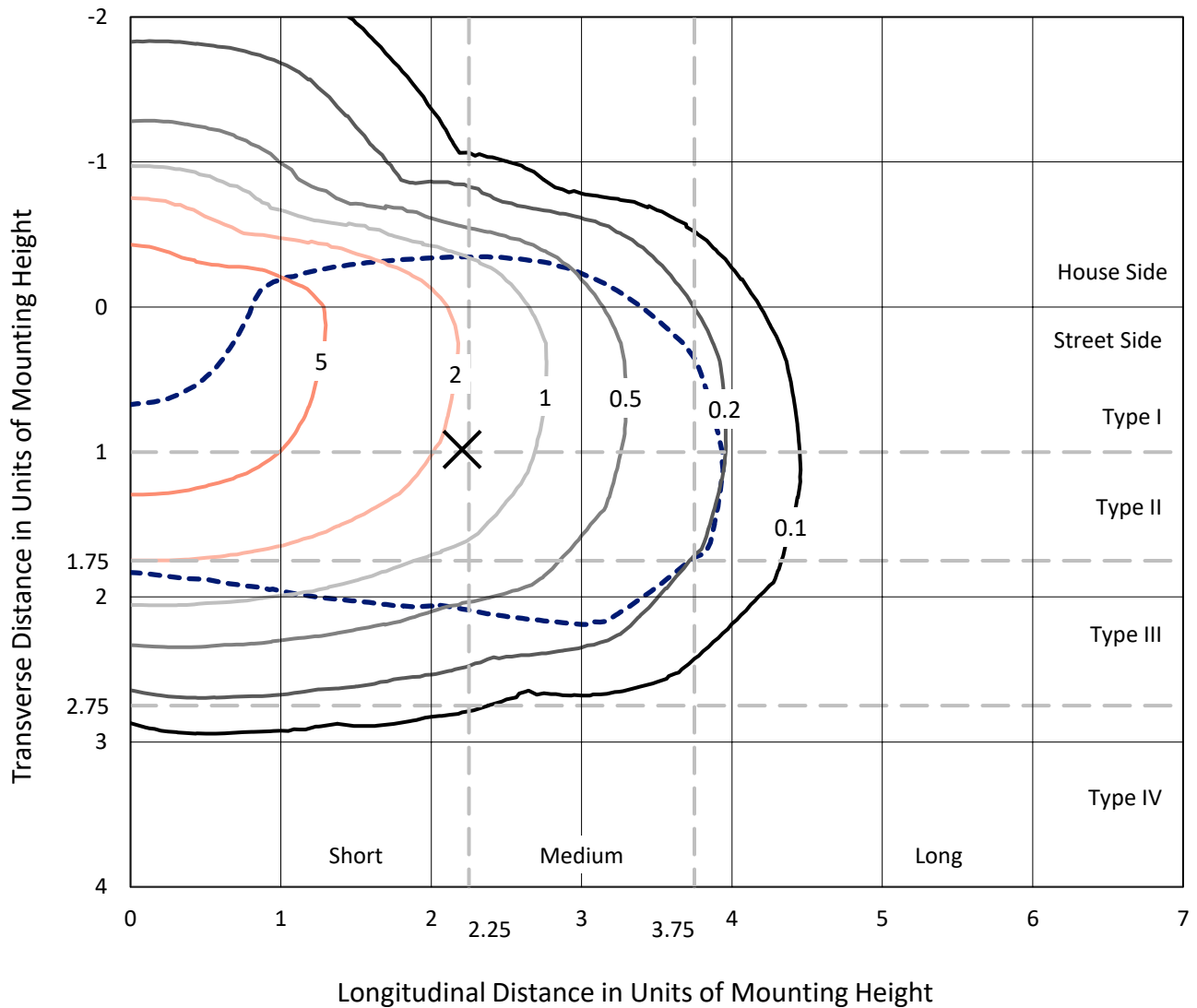
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

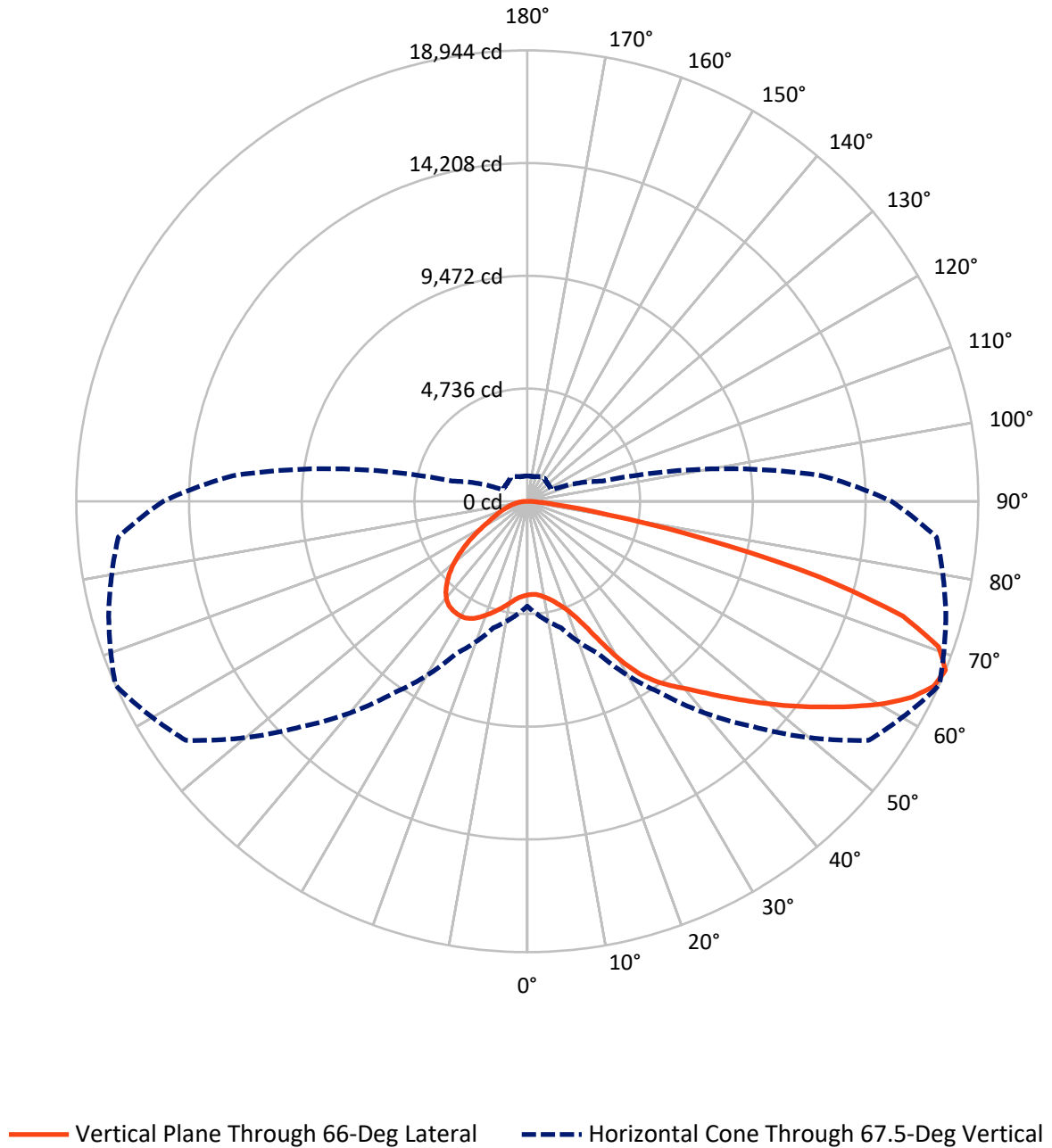
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8824.0	0.0	8824.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	26664.0	0.0	26664.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	35488.0	0.0	35488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.2	1.1
10°-20°	1289.3	3.6
20°-30°	2485.1	7.0
30°-40°	4357.3	12.3
40°-50°	6477.9	18.3
50°-60°	8211.3	23.1
60°-70°	8034.6	22.6
70°-80°	3832.6	10.8
80°-90°	409.6	1.2
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°	35488.0	100.0
0°-180°	35488.0	100.0

Coefficient of Utilization



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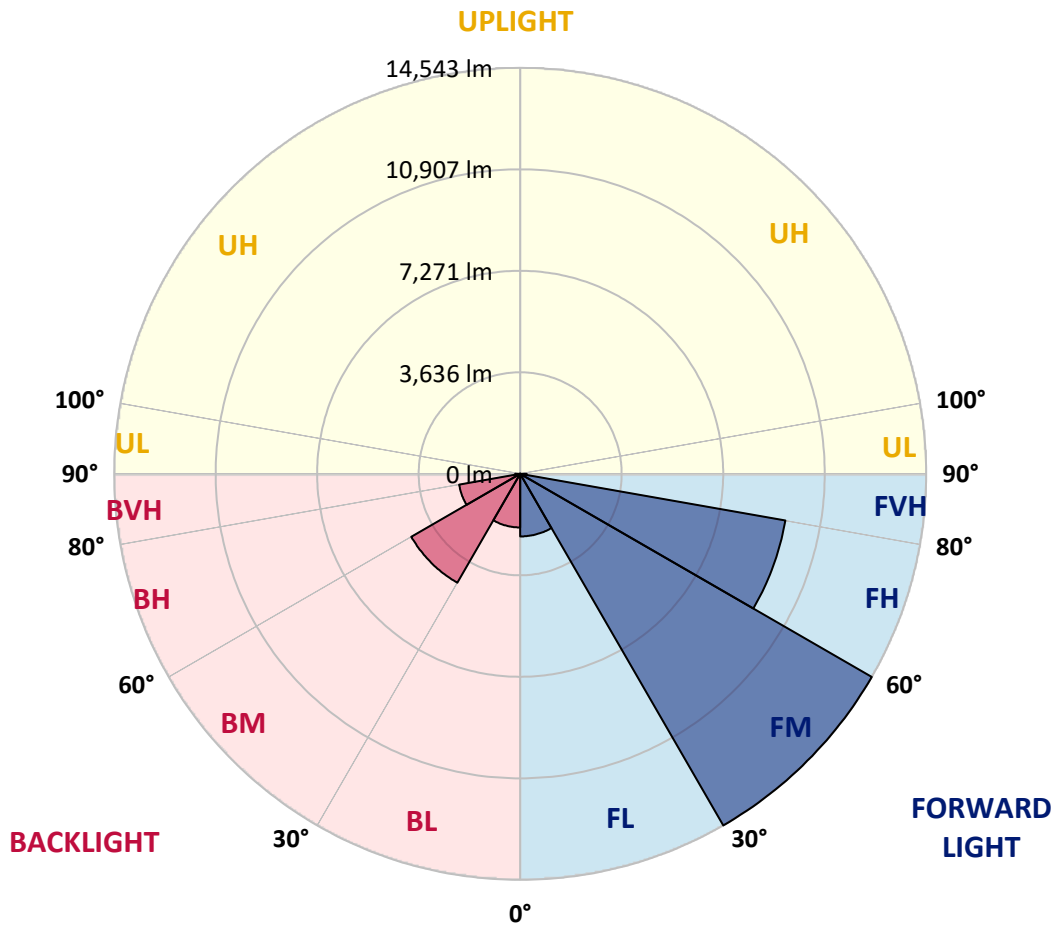
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2242.5	6.3			
FM (30°-60°)	14542.7	41.0			
FH (60°-80°)	9646.6	27.2			G4/12000
FVH (80°-90°)	232.2	0.7			G3/500
BL (0°-30°)	1922.2	5.4	B3/2500		
BM (30°-60°)	4503.9	12.7	B3/5000		
BH (60°-80°)	2220.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	177.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1
2.5°	3895.1	3917.4	3911.8	3902.5	3900.7	3904.4	3910.0	3915.6	3913.7	3923.0
5°	3883.9	3906.3	3904.4	3904.4	3911.8	3926.8	3936.1	3945.4	3936.1	3947.3
7.5°	3891.3	3908.1	3915.6	3923.0	3941.7	3969.7	3992.0	4012.5	4001.3	4014.4
10°	3986.4	3999.5	4006.9	4006.9	4020.0	4051.7	4074.1	4111.4	4102.0	4122.5
12.5°	4159.8	4172.9	4172.9	4165.4	4174.8	4195.3	4202.7	4243.7	4227.0	4260.5
15°	4372.4	4398.5	4378.0	4364.9	4368.7	4389.2	4387.3	4419.0	4402.2	4430.2
17.5°	4607.3	4640.9	4607.3	4605.5	4598.0	4620.4	4622.2	4650.2	4620.4	4640.9
20°	4885.1	4931.8	4903.8	4913.1	4896.3	4905.7	4915.0	4956.0	4909.4	4924.3
22.5°	5276.7	5332.6	5302.8	5338.2	5327.1	5319.6	5317.7	5390.4	5317.7	5323.3
25°	5847.3	5914.4	5862.2	5910.7	5910.7	5934.9	5962.9	6056.1	5934.9	5899.5
27.5°	6690.0	6757.2	6654.6	6684.5	6675.1	6734.8	6705.0	6936.2	6805.6	6747.8
30°	7704.4	7823.7	7629.8	7622.3	7613.0	7708.1	7751.0	7903.9	7771.5	7713.7
32.5°	8800.7	8925.7	8694.4	8627.3	8591.9	8649.7	8614.3	8737.3	8646.0	8556.5
35°	9960.5	10083.5	9863.5	9733.0	9591.3	9470.1	9343.3	9375.0	9289.2	9153.1
37.5°	11056.8	11282.5	11049.4	10909.5	10648.5	10411.7	10057.4	9910.1	9830.0	9705.0
40°	12173.7	12302.4	12125.2	12005.9	11722.5	11351.4	10784.6	10473.2	10365.1	10243.9
42.5°	12996.0	13119.1	13024.0	12941.9	12720.0	12289.3	11556.5	11166.9	11010.2	10874.1
45°	13648.6	13739.9	13680.3	13710.1	13615.0	13197.4	12356.4	11910.8	11748.6	11582.7
47.5°	13911.5	14008.4	14103.5	14280.7	14442.9	14135.2	13216.0	12716.3	12544.8	12375.1
50°	13881.7	13980.5	14256.4	14633.1	15136.5	15034.0	14122.2	13574.0	13415.5	13221.6
52.5°	13643.0	13754.9	14109.1	14735.6	15537.4	15707.1	15045.1	14459.7	14310.5	14079.3
55°	13016.5	13083.6	13615.0	14502.6	15632.5	16176.9	15949.5	15403.1	15254.0	14931.4
57.5°	11854.9	11951.8	12725.6	13874.2	15393.8	16495.8	16743.8	16395.1	16251.5	15787.2
60°	10339.0	10493.7	11379.4	12818.9	14786.0	16493.9	17465.3	17370.2	17250.9	16630.0
62.5°	8623.6	8802.6	9654.7	11327.2	13723.2	16025.9	17916.6	18186.9	18125.4	17407.5
65°	6622.9	6746.0	7594.4	9397.4	12069.3	15020.9	17968.8	18744.4	18755.6	17998.6
67.5°	4409.7	4764.0	5500.5	7051.8	9854.2	13378.2	17510.1	18835.8	18943.9	18201.8
70°	2151.7	2617.8	3339.4	4583.1	7051.8	10859.2	16311.2	18086.2	18326.8	17608.9
72.5°	893.1	1044.2	1437.6	2261.7	4048.0	7327.7	13902.2	16053.9	16499.5	15602.6
75°	602.3	652.6	822.3	1159.8	1844.1	3613.5	10025.7	11970.5	12688.3	11784.0
77.5°	464.3	496.0	598.5	811.1	1096.4	1366.7	5366.2	7214.0	7585.0	7021.9
80°	365.5	389.7	447.5	591.1	777.5	730.9	1829.1	3268.6	3483.0	2921.8
82.5°	317.0	326.3	320.7	400.9	516.5	427.0	600.4	1206.4	1331.3	965.8
85°	229.3	255.4	266.6	248.0	274.1	216.3	246.1	427.0	469.9	419.5
87.5°	93.2	138.0	169.7	160.4	100.7	61.5	76.4	124.9	143.6	156.6
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°
3936.1	0°	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1	3936.1
3938.0	2.5°	3939.8	3952.9	3962.2	3973.4	3980.8	3992.0	4014.4	4027.5	4029.3	4038.6
3967.8	5°	3975.2	3993.9	4014.4	4044.2	4077.8	4105.8	4148.6	4178.5	4189.7	4199.0
4040.5	7.5°	4051.7	4077.8	4115.1	4167.3	4215.8	4253.1	4305.3	4340.7	4376.1	4389.2
4156.1	10°	4165.4	4202.7	4256.8	4327.6	4379.9	4428.3	4482.4	4512.2	4547.7	4562.6
4294.1	12.5°	4307.1	4346.3	4417.1	4516.0	4564.4	4598.0	4616.7	4609.2	4616.7	4629.7
4460.0	15°	4469.4	4512.2	4592.4	4698.7	4732.3	4702.4	4661.4	4624.1	4618.5	4622.2
4661.4	17.5°	4661.4	4693.1	4786.3	4875.8	4851.6	4728.5	4639.0	4579.4	4549.5	4540.2
4918.7	20°	4929.9	4929.9	5006.3	5062.3	4900.1	4691.2	4551.4	4454.4	4392.9	4366.8
5269.2	22.5°	5256.2	5226.4	5274.8	5235.7	4890.7	4586.8	4392.9	4225.1	4131.9	4094.6
5759.6	25°	5670.1	5634.7	5621.7	5379.3	4823.6	4420.9	4105.8	3902.5	3820.5	3800.0
6466.3	27.5°	6294.8	6205.3	6035.6	5457.6	4700.6	4159.8	3770.1	3581.8	3535.2	3537.1
7374.3	30°	7126.4	6947.4	6531.6	5470.6	4499.2	3790.7	3427.1	3292.8	3270.4	3279.8
8136.9	32.5°	7896.4	7726.7	7038.7	5411.0	4189.7	3428.9	3119.4	3029.9	2996.3	3007.5
8718.7	35°	8500.5	8453.9	7508.6	5327.1	3809.3	3089.6	2843.5	2767.0	2701.7	2686.8
9266.9	37.5°	9071.1	9052.4	7861.0	5209.6	3432.7	2849.0	2621.6	2520.9	2425.8	2373.6
9872.9	40°	9697.6	9678.9	8092.2	5028.7	3098.9	2640.2	2422.1	2289.7	2172.2	2077.1
10559.0	42.5°	10402.4	10292.4	8202.2	4769.5	2815.5	2463.1	2259.8	2080.9	1926.1	1838.5
11334.7	45°	11172.4	10924.5	8200.3	4439.5	2576.8	2300.9	2086.4	1832.9	1689.3	1607.3
12130.8	47.5°	11989.1	11528.6	8099.7	4074.1	2345.6	2121.9	1817.9	1624.0	1528.9	1478.6
12996.0	50°	12831.9	12093.5	7928.1	3654.5	2108.8	1918.6	1650.1	1517.8	1445.0	1398.4
13853.7	52.5°	13624.3	12606.3	7721.1	3179.1	1868.3	1721.0	1575.6	1473.0	1396.6	1344.3
14685.3	55°	14360.8	13048.2	7428.4	2692.4	1672.5	1588.6	1540.1	1454.4	1366.7	1305.2
15529.9	57.5°	15015.3	13335.3	6923.1	2235.6	1532.7	1497.2	1502.8	1422.7	1322.0	1269.8
16361.5	60°	15559.8	13546.0	6175.4	1812.4	1418.9	1407.7	1445.0	1363.0	1245.5	1185.9
17064.5	62.5°	15886.1	13542.3	5258.1	1484.2	1322.0	1325.7	1368.6	1288.4	1169.1	1113.1
17431.8	65°	15858.1	13210.4	4251.2	1269.8	1228.7	1232.5	1288.4	1206.4	1105.7	1072.1
17247.2	67.5°	15296.9	12401.2	3261.1	1129.9	1126.2	1143.0	1208.2	1150.4	1066.5	1062.8
16147.1	70°	13777.2	10721.2	2349.3	1018.1	1019.9	1044.2	1129.9	1115.0	1046.0	1053.5
13575.9	72.5°	11047.5	8174.2	1577.4	900.6	902.4	941.6	1055.3	1087.0	1025.5	1124.3
9632.3	75°	7357.6	5097.7	1014.3	775.7	777.5	827.9	990.1	1033.0	969.6	1120.6
5011.9	77.5°	3535.2	2291.5	734.6	652.6	652.6	699.2	855.8	924.8	826.0	870.7
1611.0	80°	1221.3	861.4	578.0	525.8	514.6	546.3	721.6	801.8	712.3	656.3
525.8	82.5°	481.1	447.5	464.3	408.3	371.0	391.6	561.2	661.9	523.9	473.6
296.5	85°	276.0	290.9	328.2	270.4	214.4	240.5	412.1	475.5	395.3	348.7
97.0	87.5°	74.6	102.6	151.0	139.8	97.0	102.6	195.8	262.9	227.5	175.3
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°
3936.1
4036.8
4197.1
4391.0
4570.0
4633.4
4635.3
4553.3
4361.2
4089.0
3803.7
3542.7
3311.5
3022.5
2698.0
2375.5
2086.4
1844.1
1603.5
1467.4
1381.6
1322.0
1281.0
1236.2
1159.8
1096.4
1070.3
1068.4
1051.6
1139.2
1129.9
798.0
615.3
471.7
356.1
180.9
0.0

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