

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: P950516

Luminaire Tested: **GALN-SB4D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950516
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-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29949 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

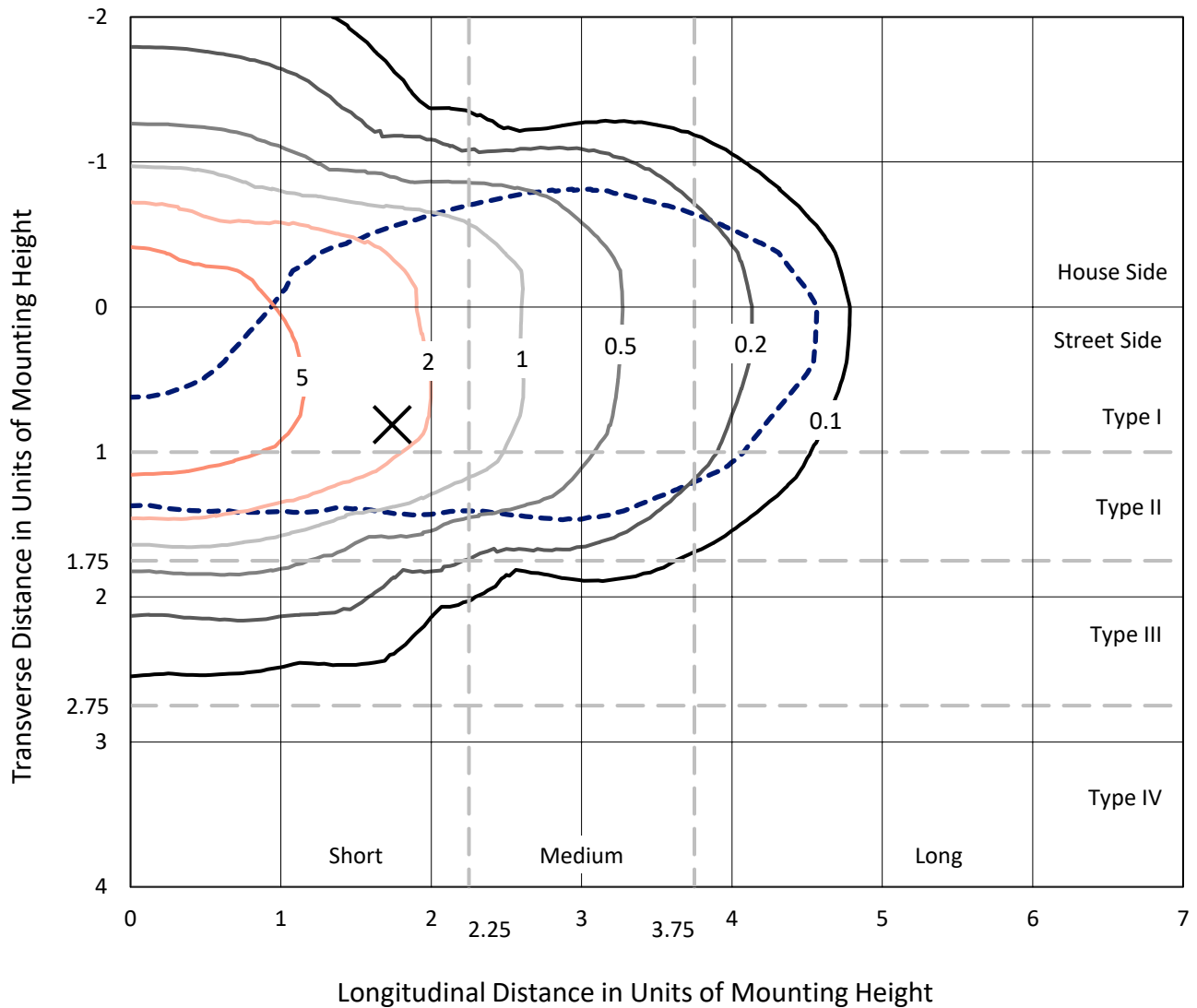
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

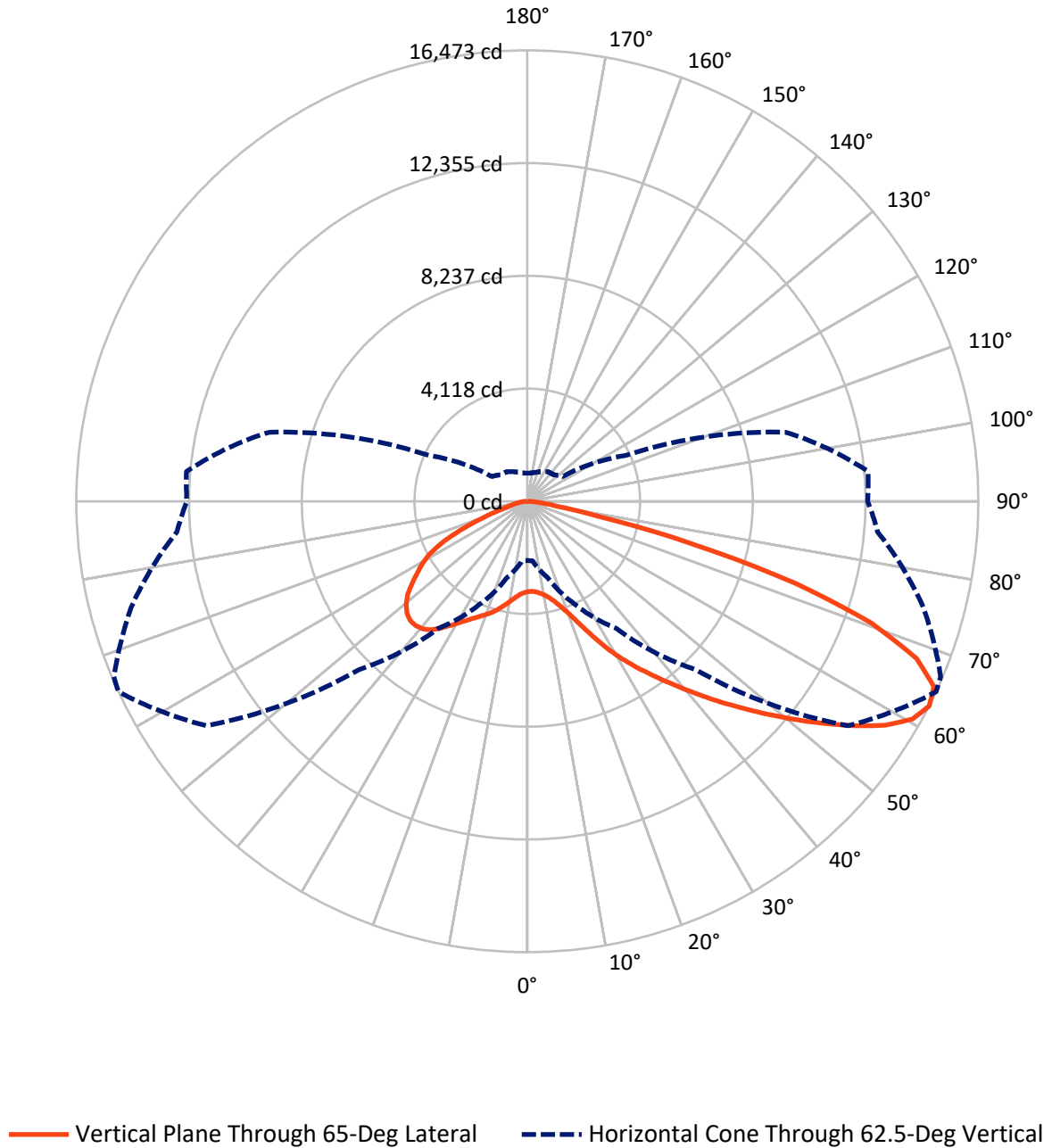
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	9450.6	0.0	9450.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20498.4	0.0	20498.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	29949.0	0.0	29949.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.1
10°-20°	1115.8	3.7
20°-30°	2262.4	7.6
30°-40°	3915.0	13.1
40°-50°	5924.5	19.8
50°-60°	6946.2	23.2
60°-70°	5823.5	19.4
70°-80°	3215.0	10.7
80°-90°	417.6	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°	29949.0	100.0
0°-180°	29949.0	100.0

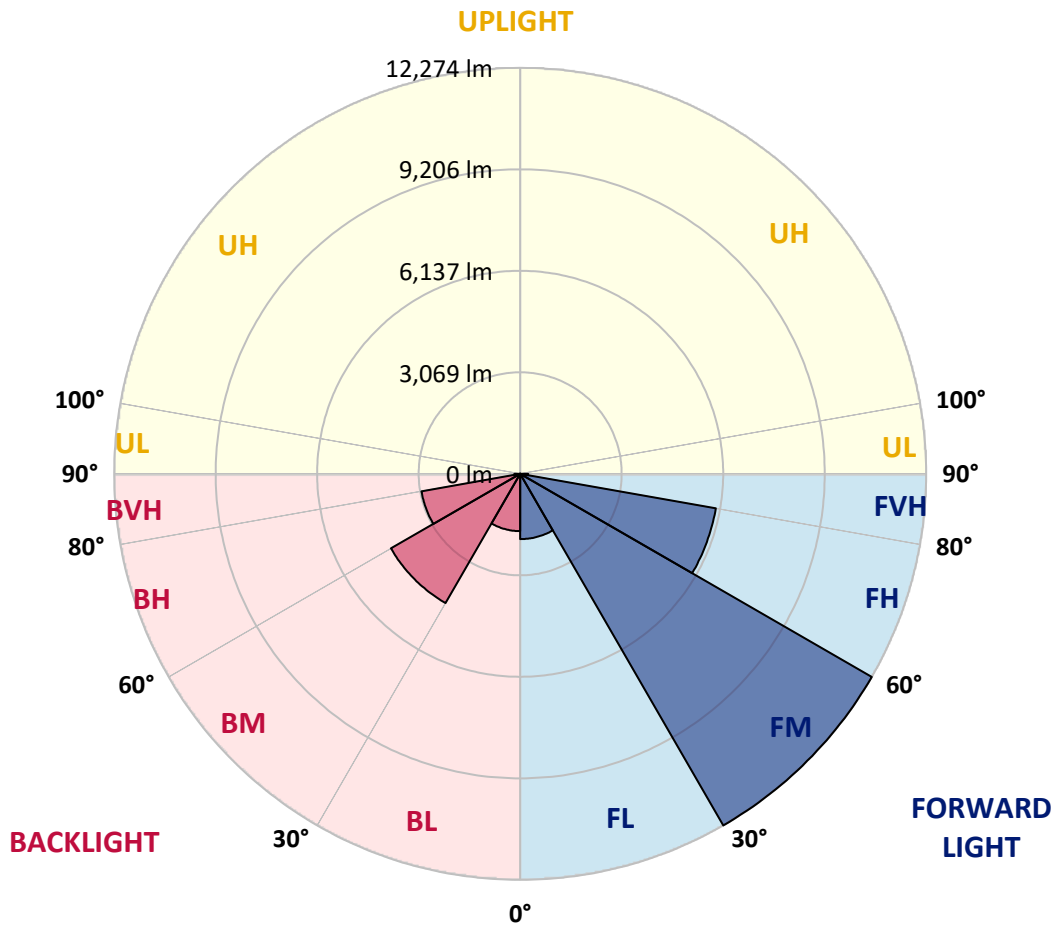


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.0	6.6			
FM (30°-60°)	12274.1	41.0			
FH (60°-80°)	6006.9	20.1			G3/7500
FVH (80°-90°)	243.4	0.8			G3/500
BL (0°-30°)	1733.1	5.8	B3/2500		
BM (30°-60°)	4511.6	15.1	B3/5000		
BH (60°-80°)	3031.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	174.2	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°	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2
2.5°	3278.5	3269.2	3276.9	3276.9	3280.1	3278.5	3289.4	3292.5	3297.1	3306.5
5°	3245.9	3244.3	3258.3	3270.7	3283.2	3294.0	3308.0	3328.2	3331.3	3342.2
7.5°	3235.0	3225.7	3247.4	3263.0	3292.5	3318.9	3356.2	3390.4	3404.4	3409.0
10°	3318.9	3303.4	3323.6	3332.9	3357.7	3384.2	3427.7	3482.0	3497.6	3516.2
12.5°	3461.8	3444.8	3474.3	3488.3	3511.6	3534.9	3564.4	3617.2	3625.0	3659.2
15°	3657.6	3637.4	3656.1	3673.2	3712.0	3733.8	3763.3	3814.6	3814.6	3841.0
17.5°	3923.3	3896.9	3910.9	3917.1	3942.0	3974.6	4024.3	4069.4	4092.7	4083.4
20°	4319.5	4286.9	4286.9	4255.8	4246.5	4272.9	4338.2	4400.3	4425.2	4377.0
22.5°	4914.6	4868.0	4841.6	4736.0	4694.0	4697.1	4762.4	4838.5	4858.7	4773.2
25°	5671.3	5598.3	5562.6	5407.2	5312.4	5230.1	5281.3	5379.2	5407.2	5301.5
27.5°	6428.0	6432.7	6398.5	6212.1	6055.1	5904.4	5878.0	5980.5	6010.1	5890.4
30°	7489.3	7378.9	7313.7	7089.9	6866.2	6654.9	6546.1	6588.1	6595.8	6452.9
32.5°	8404.5	8376.5	8236.6	8040.9	7753.4	7422.5	7240.7	7173.8	7161.4	6957.9
35°	9447.0	9431.5	9283.9	9050.8	8740.1	8280.1	7952.3	7761.2	7745.6	7459.7
37.5°	10506.7	10506.7	10362.2	10107.4	9785.8	9210.9	8712.1	8409.1	8359.4	7986.5
40°	11352.0	11300.7	11327.1	11219.9	10851.7	10241.0	9555.8	9116.1	9049.3	8601.8
42.5°	11832.1	11815.0	11973.5	12093.1	11942.4	11454.5	10485.0	9882.1	9788.9	9279.2
45°	11939.3	11920.7	12203.5	12641.6	12853.0	12652.5	11494.9	10688.5	10575.1	9987.8
47.5°	11692.3	11655.0	12069.8	12761.3	13438.7	13791.4	12588.8	11563.3	11398.6	10677.6
50°	10949.6	10913.8	11541.6	12459.8	13636.1	14565.2	13775.9	12490.9	12239.2	11417.2
52.5°	9335.2	9352.3	10335.8	11597.5	13376.6	15046.9	14798.3	13468.3	13165.3	12173.9
55°	7271.7	7309.0	8517.9	9907.0	12338.6	14973.9	15495.9	14475.1	14173.7	12885.6
57.5°	5206.8	5371.5	6504.2	7879.3	10345.1	13816.3	15648.2	15432.2	15140.1	13662.5
60°	3374.8	3404.4	4569.7	5955.7	7877.7	11759.1	15339.0	16157.9	15929.5	14454.9
62.5°	2162.9	2183.1	2893.2	4165.7	5669.8	8699.7	14298.0	16473.3	16403.4	14978.5
65°	1589.5	1574.0	1943.8	2753.3	3819.2	5365.2	12276.5	16321.0	16459.3	15306.4
67.5°	1326.9	1305.2	1487.0	1906.5	2813.9	3047.0	9083.5	15331.2	15837.8	15269.1
70°	1208.8	1190.2	1300.5	1415.5	2195.5	2040.1	4579.0	13328.4	14108.4	14844.9
72.5°	1023.9	991.3	1142.0	1257.0	1707.6	1564.7	1892.5	10237.9	11188.8	13485.3
75°	794.0	772.2	901.2	1106.3	1283.4	1221.3	1196.4	6216.7	7254.6	10429.0
77.5°	629.3	599.8	717.9	862.4	1154.5	921.4	871.7	2677.2	3705.8	6658.0
80°	473.9	447.5	545.4	682.1	887.2	694.5	564.0	1092.3	1396.9	3373.3
82.5°	337.2	313.9	380.7	500.3	596.7	623.1	346.5	612.2	688.3	1300.5
85°	216.0	202.0	254.8	313.9	379.1	400.9	211.3	320.1	351.2	536.1
87.5°	118.1	96.3	136.7	146.1	175.6	160.0	101.0	116.5	125.9	194.2
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°
3300.2	0°	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2	3300.2
3306.5	2.5°	3312.7	3317.3	3332.9	3337.5	3348.4	3362.4	3371.7	3381.0	3381.0	3390.4
3356.2	5°	3357.7	3368.6	3401.2	3418.3	3446.3	3474.3	3491.4	3511.6	3524.0	3530.2
3435.4	7.5°	3444.8	3461.8	3508.5	3538.0	3586.1	3625.0	3651.4	3679.4	3685.6	3702.7
3545.7	10°	3562.8	3583.0	3635.9	3691.8	3749.3	3797.5	3822.3	3842.5	3850.3	3853.4
3687.1	12.5°	3698.0	3727.5	3795.9	3864.3	3924.9	3966.8	3973.0	3968.4	3946.6	3928.0
3861.2	15°	3864.3	3890.7	3966.8	4041.4	4100.5	4108.2	4069.4	4044.5	4018.1	4013.4
4055.4	17.5°	4063.2	4077.1	4147.1	4220.1	4224.8	4198.3	4140.9	4117.5	4092.7	4075.6
4308.7	20°	4294.7	4290.0	4339.7	4370.8	4338.2	4257.4	4170.4	4131.5	4106.7	4086.5
4619.4	22.5°	4571.3	4535.5	4529.3	4521.5	4434.5	4265.2	4147.1	4097.3	4058.5	4030.5
5052.9	25°	4973.7	4836.9	4742.2	4689.3	4493.6	4223.2	4072.5	3962.2	3889.1	3841.0
5582.8	27.5°	5477.1	5247.1	5007.9	4878.9	4493.6	4137.7	3892.2	3713.6	3593.9	3544.2
6095.5	30°	5957.2	5716.4	5363.7	5107.3	4482.7	3997.9	3601.7	3353.1	3213.2	3163.5
6533.7	32.5°	6367.4	6104.8	5741.3	5357.5	4456.3	3771.0	3241.2	2966.2	2831.0	2772.0
6967.2	35°	6748.1	6468.4	6120.4	5632.5	4386.3	3438.5	2845.0	2635.2	2484.5	2389.7
7408.5	37.5°	7138.1	6805.6	6479.3	5881.1	4260.5	3050.1	2540.4	2361.8	2184.6	2057.2
7877.7	40°	7562.3	7164.5	6863.1	6028.7	4053.8	2680.3	2304.3	2141.1	1953.1	1817.9
8418.4	42.5°	8058.0	7594.9	7290.4	6104.8	3771.0	2417.7	2150.4	1990.4	1813.3	1703.0
8998.0	45°	8575.4	8068.8	7680.4	6103.3	3455.6	2294.9	2100.7	1942.2	1746.5	1631.5
9593.1	47.5°	9117.6	8564.5	8017.6	6003.8	3182.2	2312.0	2072.8	1838.1	1622.2	1510.3
10194.4	50°	9661.5	9106.8	8343.9	5817.4	3065.6	2274.7	1968.7	1692.1	1437.3	1336.3
10758.4	52.5°	10200.6	9683.2	8625.1	5551.7	2947.5	2136.5	1835.0	1502.5	1361.1	1291.2
11341.1	55°	10742.9	10253.5	8931.2	5164.8	2652.3	1974.9	1611.3	1431.0	1300.5	1236.8
11911.4	57.5°	11286.7	10912.3	9221.7	4777.9	2281.0	1776.0	1488.5	1344.0	1239.9	1185.5
12388.4	60°	11852.3	11665.9	9521.6	4422.1	1914.3	1521.2	1398.4	1274.1	1168.5	1107.9
12846.7	62.5°	12435.0	12495.6	9756.2	3963.7	1577.1	1365.8	1317.6	1190.2	1087.7	1030.2
13225.9	65°	13022.3	13295.8	9910.1	3328.2	1278.8	1218.2	1230.6	1098.5	994.4	944.7
13504.0	67.5°	13465.1	13872.2	9866.6	2518.7	1048.8	1078.3	1121.8	1002.2	904.3	865.5
13458.9	70°	13514.9	13803.9	9437.7	1724.7	877.9	941.6	1000.6	907.4	806.4	778.4
12825.0	72.5°	12853.0	12871.6	8242.9	1126.5	742.7	826.6	873.2	811.1	713.2	685.2
11219.9	75°	11117.4	10645.0	6052.0	742.7	621.5	710.1	753.6	710.1	615.3	621.5
8395.1	77.5°	8423.1	7539.0	3674.7	528.3	519.0	596.7	655.7	624.6	543.8	610.6
4221.6	80°	4339.7	4078.7	1639.2	394.7	410.2	477.0	539.2	498.8	430.4	410.2
943.2	82.5°	994.4	1156.0	646.4	282.8	296.8	343.4	411.8	374.5	309.2	261.0
393.1	85°	348.0	380.7	285.9	177.1	174.0	214.4	279.7	250.2	209.8	167.8
166.3	87.5°	110.3	144.5	107.2	71.5	74.6	96.3	129.0	118.1	97.9	63.7
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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180°
3300.2
3390.4
3533.3
3696.5
3845.6
3928.0
4013.4
4077.1
4088.0
4039.9
3859.6
3569.1
3193.0
2801.5
2420.8
2091.4
1844.3
1724.7
1650.1
1525.8
1342.5
1291.2
1230.6
1176.2
1103.2
1028.6
943.2
867.0
780.0
683.7
599.8
537.6
374.5
257.9
177.1
66.8
0.0

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