

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: P942095

Luminaire Tested: **GALN-SB5D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36908 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

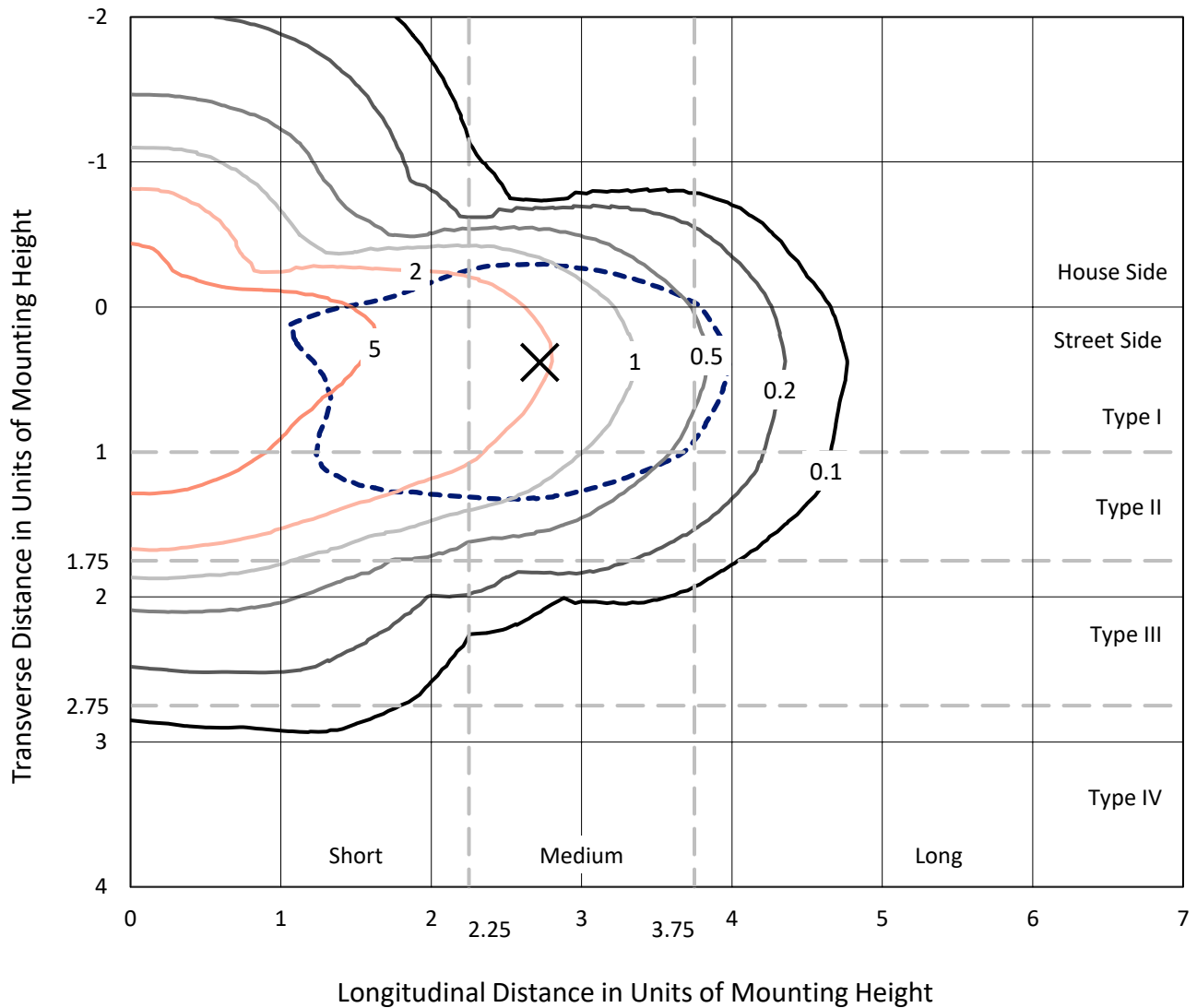
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

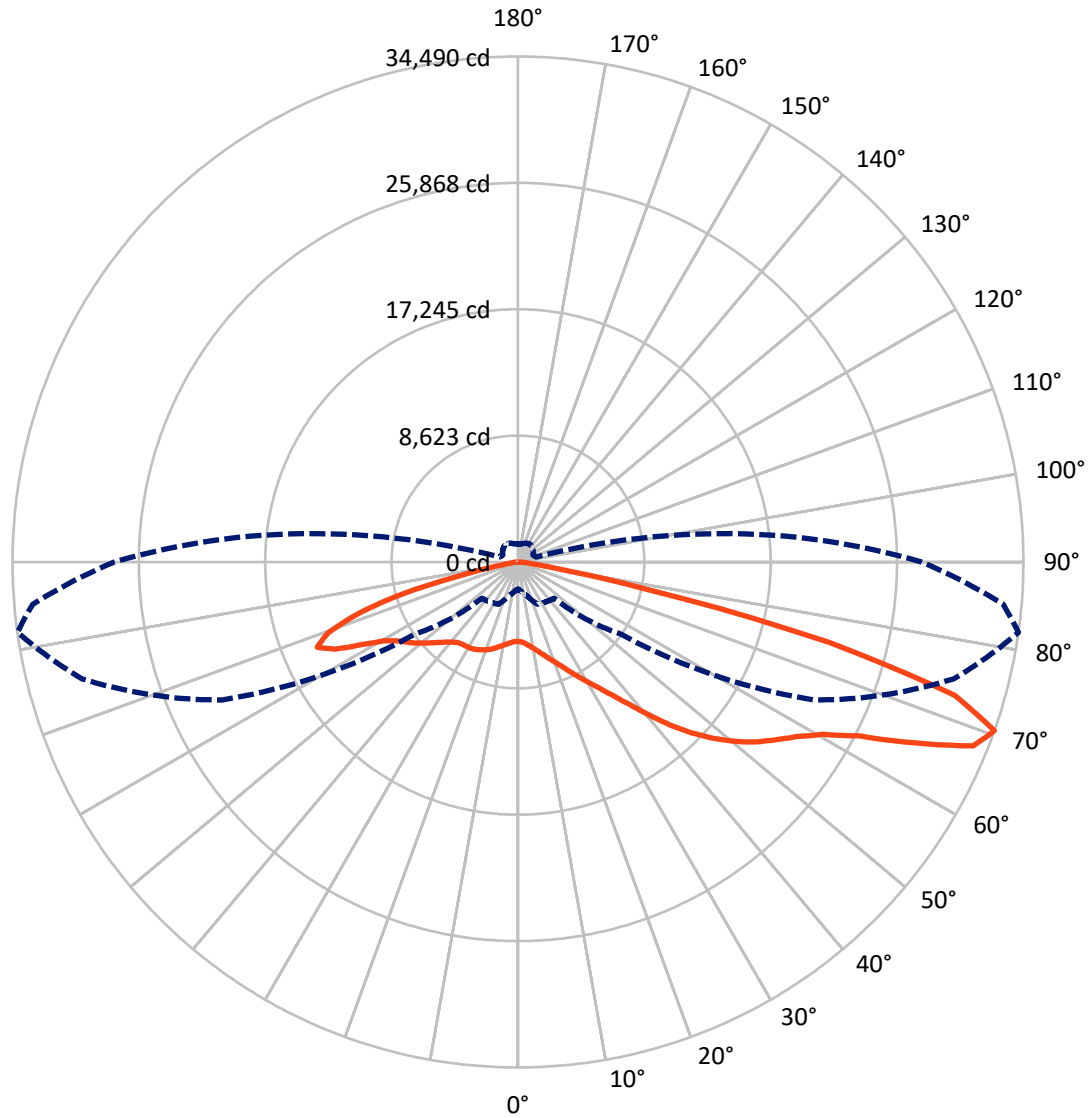
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9098.7	0.0	9098.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	27809.3	0.0	27809.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	36908.0	0.0	36908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.9	1.4
10°-20°	1467.9	4.0
20°-30°	2455.6	6.7
30°-40°	3836.3	10.4
40°-50°	6109.7	16.6
50°-60°	8502.5	23.0
60°-70°	8894.0	24.1
70°-80°	4648.5	12.6
80°-90°	482.7	1.3
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°	36908.0	100.0
0°-180°	36908.0	100.0

Coefficient of Utilization



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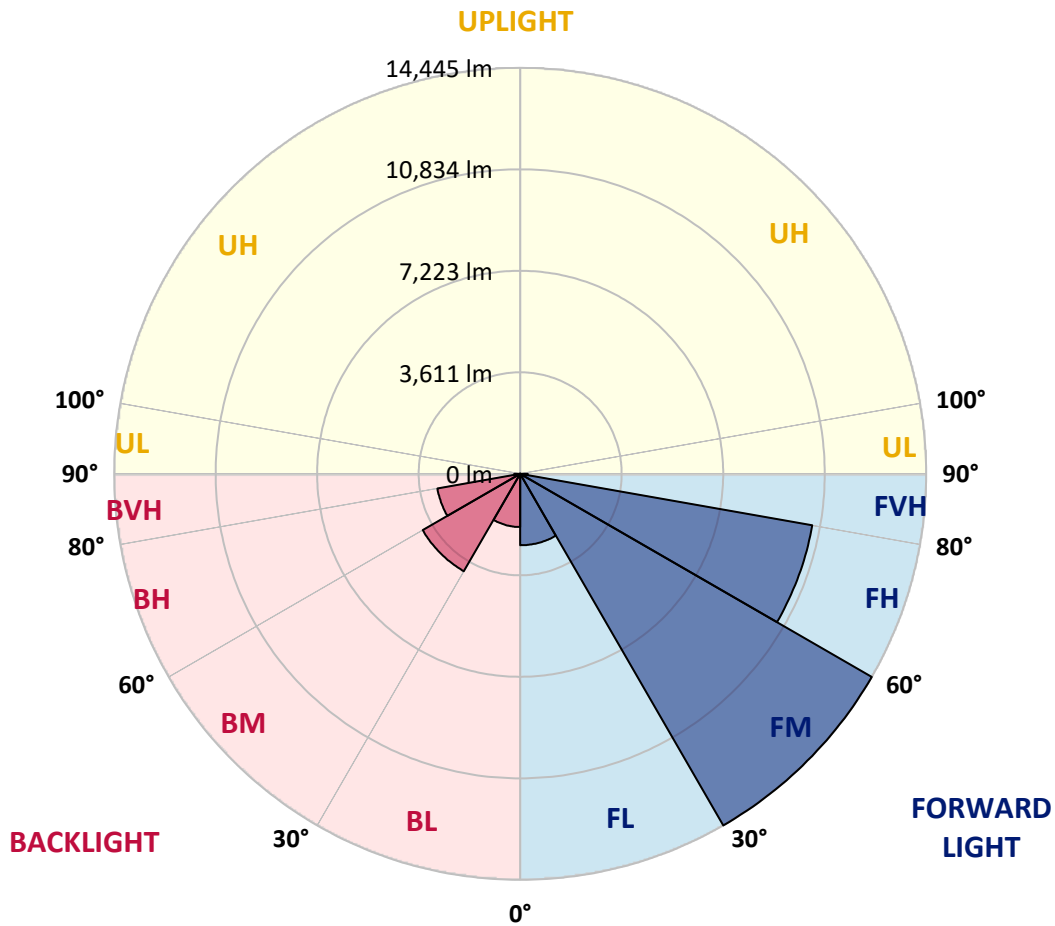
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.5	6.9			
FM (30°-60°)	14445.4	39.1			
FH (60°-80°)	10552.1	28.6			G4/12000
FVH (80°-90°)	270.2	0.7			G3/500
BL (0°-30°)	1892.9	5.1	B3/2500		
BM (30°-60°)	4003.1	10.8	B3/5000		
BH (60°-80°)	2990.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	212.5	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2
2.5°	5540.4	5571.8	5562.0	5552.2	5552.2	5538.5	5536.5	5516.9	5501.3	5475.8
5°	5610.9	5644.2	5640.3	5648.1	5673.6	5679.5	5685.4	5673.6	5642.3	5610.9
7.5°	5548.3	5585.5	5597.2	5644.2	5722.6	5793.1	5845.9	5867.5	5838.1	5793.1
10°	5336.8	5377.9	5419.0	5530.6	5669.7	5836.2	5977.2	6061.4	6055.5	6012.4
12.5°	4907.9	4950.9	5039.1	5256.5	5511.1	5804.8	6067.3	6243.5	6304.2	6272.9
15°	4565.1	4602.3	4668.9	4892.2	5223.2	5669.7	6100.5	6443.3	6598.0	6580.4
17.5°	4555.3	4571.0	4612.1	4717.9	4972.5	5458.2	6065.3	6639.1	6934.8	6932.9
20°	4727.7	4733.6	4757.1	4778.6	4923.5	5297.6	5975.2	6801.7	7312.8	7312.8
22.5°	4966.6	4962.7	4986.2	4966.6	5037.1	5283.9	5918.4	6944.6	7733.9	7765.2
25°	5325.0	5305.4	5299.5	5254.5	5268.2	5411.2	5981.1	7107.2	8233.3	8297.9
27.5°	5802.9	5771.5	5750.0	5646.2	5610.9	5673.6	6173.0	7303.0	8789.5	8901.1
30°	6425.6	6368.9	6337.5	6157.3	6030.0	6039.8	6462.9	7563.5	9371.1	9551.3
32.5°	7275.6	7187.5	7103.3	6807.5	6574.5	6498.1	6836.9	7923.9	10001.8	10289.7
35°	8227.4	8156.9	8066.8	7610.5	7252.1	7075.8	7342.2	8427.2	10740.1	11196.4
37.5°	9144.0	9083.3	9126.3	8511.4	8049.2	7792.6	8004.2	9102.8	11650.8	12324.5
40°	10091.8	10044.8	10050.7	9463.2	8924.6	8636.7	8807.1	9950.8	12694.6	13666.0
42.5°	11122.0	11086.7	10969.2	10448.3	9843.1	9574.8	9731.5	10930.1	13814.8	15193.6
45°	12275.5	12254.0	12144.3	11547.0	10853.7	10552.1	10763.6	12011.1	14941.0	16631.1
47.5°	13272.4	13290.0	13276.3	12773.0	12054.2	11611.6	11864.2	13139.2	15988.7	17982.4
50°	13752.2	13844.2	13979.4	13822.7	13376.2	12925.7	12974.7	14228.1	16987.5	19249.5
52.5°	13501.5	13675.8	14044.0	14294.7	14467.0	14373.0	14241.8	15309.1	17927.6	20393.3
55°	12567.3	12812.1	13423.2	14028.3	14907.7	15591.2	15763.5	16507.7	18844.1	21399.9
57.5°	10865.4	11263.0	11811.4	13035.4	14516.0	16180.6	17537.8	18170.4	19815.5	22475.1
60°	7947.4	8480.1	9161.6	10982.9	13145.1	15865.3	19047.8	20724.2	21196.2	23867.5
62.5°	5086.1	5415.1	6041.8	7757.4	10242.6	14249.6	19510.0	23916.5	23536.6	26151.1
65°	3482.1	3693.6	4267.4	5231.0	6621.5	10606.9	18272.3	26309.7	27253.7	29770.3
67.5°	2530.3	2690.9	3180.5	4024.6	4314.4	6276.8	14179.1	26200.0	30867.0	33499.1
70°	1844.9	1958.4	2369.7	3180.5	3319.6	3491.9	8589.7	22271.4	30788.7	34490.1
72.5°	1367.0	1445.3	1721.5	2467.6	2687.0	2358.0	4251.8	16186.5	26456.6	31196.0
75°	989.0	1047.8	1251.4	1887.9	2150.4	1795.9	2121.0	9459.3	18454.4	21944.3
77.5°	756.0	801.0	934.2	1382.7	1721.5	1347.4	1316.1	4351.7	8750.3	8793.4
80°	607.1	636.5	709.0	973.3	1320.0	1008.6	857.8	1756.7	2765.3	2340.3
82.5°	446.5	495.5	599.3	683.5	944.0	695.2	522.9	887.2	1051.7	904.8
85°	254.6	287.9	362.3	489.6	603.2	425.0	299.6	393.6	489.6	401.5
87.5°	90.1	117.5	127.3	191.9	262.4	176.3	115.5	113.6	160.6	119.5
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°
5411.2	0°	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2	5411.2
5469.9	2.5°	5450.3	5440.6	5401.4	5348.5	5293.7	5240.8	5223.2	5186.0	5160.5	5146.8
5597.2	5°	5560.0	5528.7	5436.6	5319.1	5195.7	5062.6	4968.6	4882.4	4819.7	4761.0
5771.5	7.5°	5716.7	5661.9	5503.2	5297.6	5078.2	4856.9	4692.4	4567.1	4482.9	4428.0
5975.2	10°	5898.8	5814.6	5571.8	5264.3	4925.5	4608.2	4414.3	4306.6	4253.7	4224.4
6208.3	12.5°	6108.4	5988.9	5642.3	5187.9	4692.4	4330.1	4196.9	4165.6	4167.6	4169.5
6502.0	15°	6366.9	6200.4	5699.1	5021.4	4388.9	4116.6	4093.1	4144.1	4196.9	4222.4
6835.0	17.5°	6658.7	6423.7	5708.9	4747.3	4091.2	3979.6	4054.0	4163.6	4243.9	4279.2
7207.1	20°	6972.1	6650.9	5638.4	4359.5	3846.4	3867.9	4001.1	4142.1	4230.2	4275.3
7632.0	22.5°	7330.4	6893.7	5469.9	3952.1	3646.6	3746.5	3903.2	4040.3	4132.3	4177.4
8131.4	25°	7739.8	7165.9	5205.5	3609.4	3474.3	3609.4	3766.1	3879.7	3954.1	3995.2
8689.6	27.5°	8194.1	7449.9	4853.0	3337.2	3323.5	3468.4	3597.7	3685.8	3725.0	3756.3
9283.0	30°	8650.4	7708.4	4426.1	3131.5	3192.3	3329.4	3421.4	3460.6	3472.3	3478.2
9945.0	32.5°	9144.0	7931.7	3977.6	2961.2	3066.9	3194.2	3249.1	3266.7	3211.8	3174.6
10747.9	35°	9741.3	8170.6	3538.9	2826.0	2943.5	3053.2	3070.8	3055.2	2990.5	2914.2
11754.6	37.5°	10479.6	8468.3	3188.3	2730.1	2828.0	2900.5	2878.9	2875.0	2880.9	2790.8
12964.9	40°	11384.4	8856.1	2931.8	2655.6	2734.0	2749.7	2688.9	2722.2	2751.6	2614.5
14292.7	42.5°	12389.1	9324.1	2769.2	2604.7	2655.6	2618.4	2524.4	2561.6	2557.7	2377.5
15626.4	45°	13413.4	9833.3	2712.4	2567.5	2583.2	2508.8	2405.0	2414.8	2332.5	2170.0
16905.3	47.5°	14431.8	10379.7	2747.7	2536.2	2493.1	2408.9	2328.6	2285.5	2164.1	2042.7
18131.3	50°	15430.6	10953.6	2877.0	2473.5	2369.7	2320.8	2262.0	2185.6	2056.4	1952.6
19290.7	52.5°	16356.9	11531.3	3021.9	2369.7	2215.0	2244.4	2207.2	2119.0	1991.7	1886.0
20387.4	55°	17234.3	12109.0	3078.7	2226.7	2070.1	2177.8	2156.2	1993.7	1840.9	1754.8
21535.0	57.5°	18190.0	12804.3	3016.0	2044.6	1952.6	2101.4	2019.2	1839.0	1750.8	1686.2
23029.3	60°	19513.9	13895.1	2880.9	1819.4	1840.9	1987.8	1846.8	1772.4	1676.4	1604.0
25269.8	62.5°	21713.2	15930.0	2663.5	1596.1	1709.7	1819.4	1764.6	1690.1	1592.2	1521.7
29100.5	65°	24964.3	18758.0	2254.2	1421.8	1562.8	1654.9	1676.4	1602.0	1500.2	1425.7
32457.3	67.5°	27706.1	20532.3	1705.8	1276.9	1412.0	1521.7	1582.4	1510.0	1402.2	1329.8
33242.6	70°	27555.3	19243.6	1302.4	1133.9	1278.9	1390.5	1468.8	1412.0	1296.5	1227.9
30195.3	72.5°	24474.6	16098.4	1053.6	989.0	1143.7	1253.4	1347.4	1304.3	1186.8	1120.2
22120.6	75°	17980.5	11427.5	842.1	842.1	975.3	1110.4	1214.2	1186.8	1079.1	1032.1
9286.9	77.5°	7579.2	4794.3	660.0	699.2	810.8	953.8	1083.0	1092.8	998.8	1057.6
2455.9	80°	2015.2	1321.9	503.3	550.3	636.5	787.3	942.0	938.1	836.3	781.4
912.6	82.5°	767.7	520.9	358.4	387.8	460.2	603.2	746.2	769.7	667.8	577.7
358.4	85°	295.7	223.3	221.3	233.1	268.3	399.5	564.0	583.6	503.3	426.9
99.9	87.5°	76.4	66.6	82.3	78.3	123.4	213.5	323.1	334.9	307.5	178.2
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>
5411.2
5162.5
4784.5
4439.8
4232.2
4173.4
4220.4
4287.0
4287.0
4189.1
4007.0
3768.0
3491.9
3186.4
2918.1
2796.7
2618.4
2375.6
2175.8
2042.7
1944.7
1887.9
1746.9
1680.3
1600.0
1521.7
1429.7
1331.7
1233.8
1120.2
1018.4
959.6
726.6
577.7
440.6
254.6
0.0

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