

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: P955987

Luminaire Tested: **GALN-SB8D-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86528 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

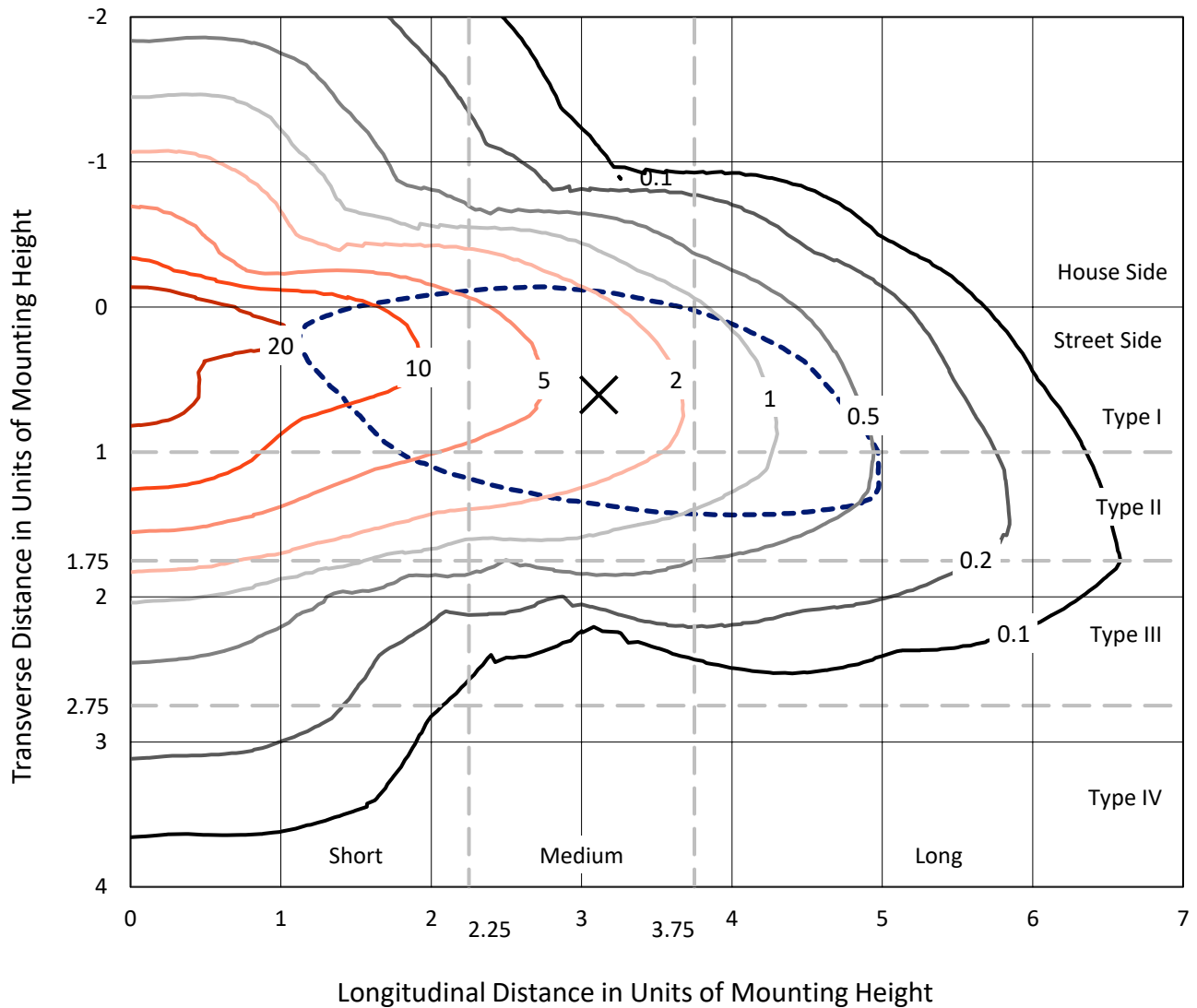
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

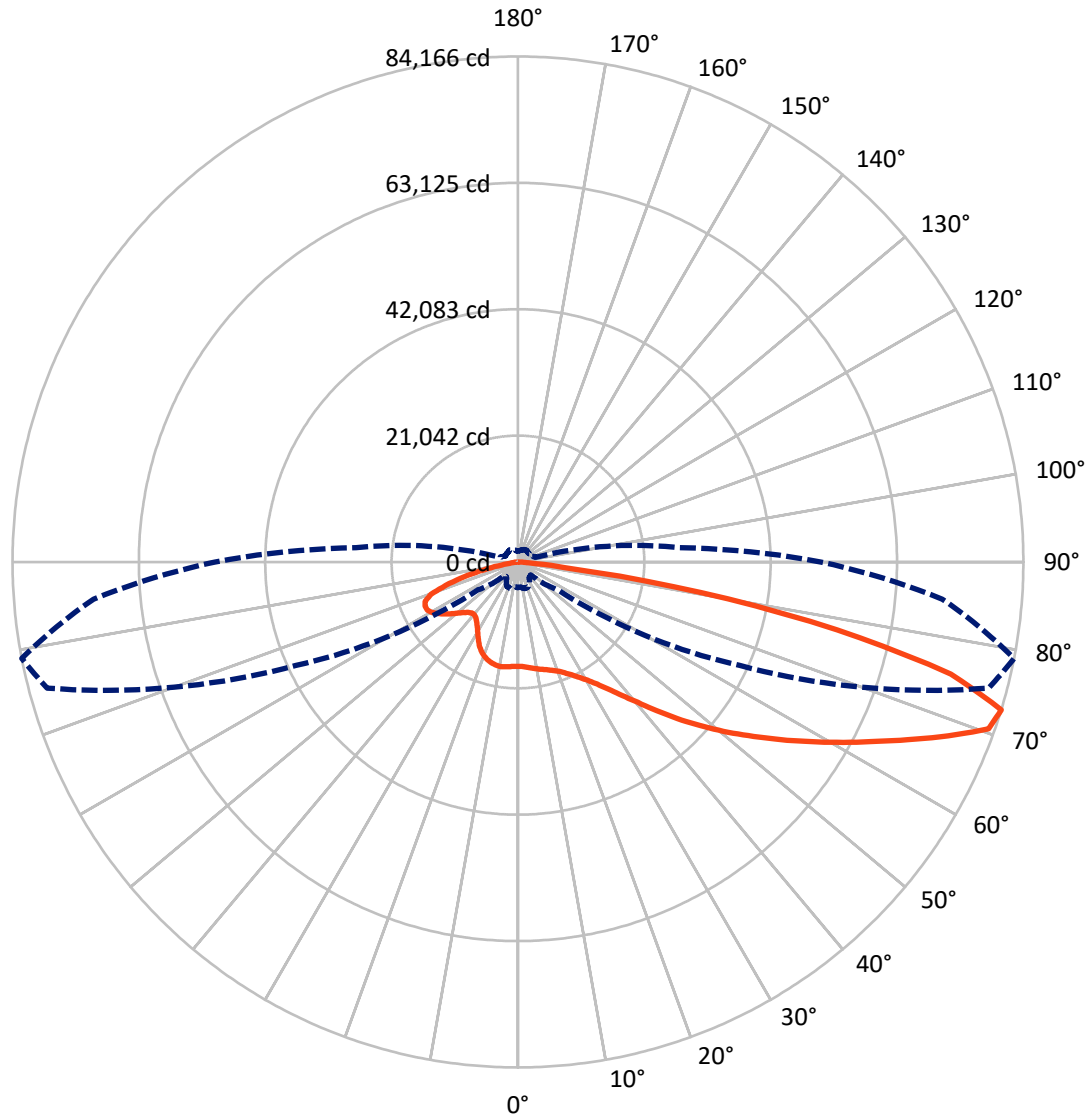
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19040.9	0.0	19040.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	67487.1	0.0	67487.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	86528.0	0.0	86528.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1576.7	1.8
10°-20°	4122.2	4.8
20°-30°	6651.5	7.7
30°-40°	9983.0	11.5
40°-50°	14161.5	16.4
50°-60°	17884.0	20.7
60°-70°	18163.7	21.0
70°-80°	12379.4	14.3
80°-90°	1606.1	1.9
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°	86528.0	100.0
0°-180°	86528.0	100.0

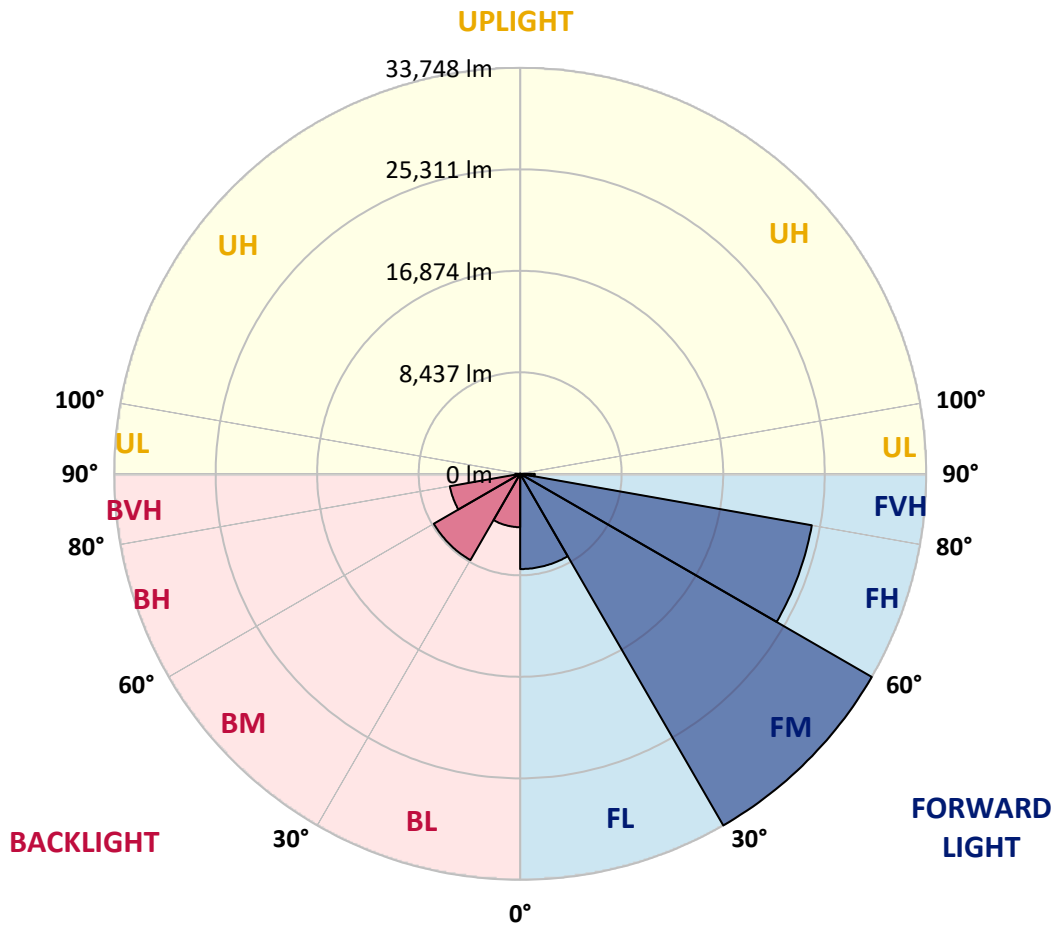


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7915.2	9.1			
FM (30°-60°)	33747.7	39.0			
FH (60°-80°)	24614.3	28.4			G5
FVH (80°-90°)	1209.9	1.4			G5
BL (0°-30°)	4435.2	5.1	B4/5000		
BM (30°-60°)	8280.8	9.6	B4/8500		
BH (60°-80°)	5928.7	6.9	B5		G5
BVH (80°-90°)	396.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7
2.5°	17378.8	17296.4	17346.8	17328.5	17351.4	17378.8	17388.0	17401.7	17447.5	17442.9
5°	17342.2	17259.8	17328.5	17305.6	17365.1	17429.2	17484.1	17534.4	17607.7	17639.7
7.5°	17264.4	17209.5	17278.1	17346.8	17456.6	17552.8	17630.6	17745.0	17850.3	17868.6
10°	16811.3	16770.1	16930.3	17108.8	17410.9	17671.8	17841.1	17973.8	18088.3	18106.6
12.5°	16339.9	16289.5	16468.0	16710.6	17200.3	17671.8	18028.8	18202.7	18303.4	18362.9
15°	16262.0	16220.8	16321.5	16532.1	16939.4	17548.2	18156.9	18477.3	18564.3	18632.9
17.5°	16637.4	16559.5	16600.7	16674.0	16912.0	17433.8	18257.6	18788.5	18921.3	18994.5
20°	17507.0	17397.1	17333.1	17186.6	17145.4	17452.1	18248.5	19163.9	19337.8	19429.3
22.5°	18665.0	18591.7	18454.4	18083.7	17680.9	17676.3	18422.4	19644.4	19969.4	20056.4
25°	20065.5	19955.7	19781.7	19278.3	18504.8	18120.3	18715.3	20257.8	20802.4	20825.3
27.5°	21676.6	21511.8	21273.8	20610.2	19566.6	18816.0	19163.9	20962.6	21759.0	21749.9
30°	23374.7	23209.9	22958.2	22152.6	20839.0	19754.3	19786.3	21722.4	22894.1	22843.8
32.5°	24615.0	24491.5	24441.1	23818.7	22303.7	20861.9	20500.3	22564.6	24294.7	24248.9
35°	25567.1	25406.9	25466.4	25150.6	23901.0	22102.3	21374.5	23566.9	25997.3	25992.7
37.5°	26509.9	26368.0	26418.4	26207.8	25379.4	23676.8	22441.0	24793.5	28107.3	28208.0
40°	27370.4	27219.4	27420.7	27223.9	26528.2	25351.9	23653.9	26180.4	30551.4	30743.6
42.5°	27887.6	27768.6	28102.7	28107.3	27526.0	26766.2	24985.8	27709.1	33380.0	33810.2
45°	28066.1	28024.9	28528.4	28633.6	28409.4	27585.5	26185.0	29375.1	36428.3	37197.2
47.5°	27873.9	27796.1	28491.8	28880.8	29059.3	27970.0	27178.2	31178.4	39540.6	40666.5
50°	26903.5	26752.5	27786.9	28606.2	29242.4	28221.7	28180.5	33261.0	43078.6	44309.8
52.5°	25159.7	25045.3	26221.6	27645.0	28839.6	28345.3	29306.5	35535.7	46438.1	48030.9
55°	22930.7	22779.7	24075.0	25933.2	27837.2	28304.1	30432.4	38080.5	50401.8	52017.5
57.5°	19397.3	19095.2	20733.8	22930.7	26203.3	28253.8	31604.1	40611.6	54429.6	56365.6
60°	14243.6	13795.0	15804.3	18408.6	23008.5	27764.0	33055.0	43449.4	59262.9	61006.7
62.5°	8293.5	8032.6	9346.2	11776.6	17342.2	24880.5	33869.7	46749.4	64013.8	65844.6
65°	6439.8	6366.6	6481.0	6668.7	9652.9	18628.3	31357.0	49967.0	70055.4	71337.0
67.5°	5890.6	5835.7	5886.0	5533.6	4897.4	10376.0	24807.3	50781.7	76527.3	77305.3
70°	5236.1	5172.0	5336.8	5034.7	3853.8	4718.9	16028.6	47825.0	81676.4	83136.4
72.5°	4265.8	4192.5	4577.0	4439.7	3245.1	3030.0	8050.9	40799.3	81136.3	84166.3
75°	3277.1	3235.9	3693.6	3808.1	2645.5	2384.6	3863.0	30327.1	71401.0	74453.9
77.5°	2544.8	2512.8	2746.2	3162.7	2132.9	1849.1	2375.5	19237.1	53807.1	54342.6
80°	1908.6	1817.1	2032.2	2448.7	1661.4	1350.2	1611.1	11218.2	34011.6	30830.6
82.5°	1194.6	1148.8	1327.3	1634.0	1171.7	929.1	1048.1	6197.2	13630.3	8028.0
85°	682.0	663.7	723.2	933.7	636.2	535.5	599.6	2737.0	2489.9	1711.8
87.5°	274.6	265.5	329.5	416.5	233.4	196.8	210.5	659.1	549.2	508.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
17369.7	0°	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7	17369.7
17438.3	2.5°	17420.0	17420.0	17355.9	17255.2	17140.8	17067.6	16948.6	16916.6	16793.0	16756.4
17593.9	5°	17630.6	17593.9	17397.1	17113.4	16724.3	16367.3	15973.7	15726.5	15378.7	15255.1
17900.6	7.5°	17896.0	17795.3	17456.6	16834.2	16019.5	15218.5	14385.5	13753.9	13149.7	12934.6
18152.3	10°	18138.6	17996.7	17420.0	16330.7	14921.0	13534.2	12206.8	11277.7	10572.8	10284.5
18431.5	12.5°	18381.2	18120.3	17177.4	15493.1	13360.2	11479.1	10064.8	9341.6	8906.8	8559.0
18660.4	15°	18610.0	18243.9	16802.1	14371.7	11648.4	9739.8	8696.3	8119.6	7771.7	7542.9
18994.5	17.5°	18875.5	18349.1	16239.2	12948.3	10019.0	8536.1	7684.8	7336.9	7268.3	7240.8
19452.2	20°	19246.2	18445.3	15497.7	11355.5	8819.9	7574.9	7135.5	7103.5	7098.9	7085.2
20001.4	22.5°	19644.4	18559.7	14518.2	9909.2	7799.2	6975.3	6897.5	6833.4	6792.3	6787.7
20665.1	25°	20115.9	18596.3	13291.6	8723.7	6929.6	6691.6	6600.0	6503.9	6476.4	6476.4
21420.3	27.5°	20573.6	18472.7	11863.6	7693.9	6439.8	6430.7	6311.7	6279.6	6275.1	6288.8
22280.8	30°	21031.3	18239.3	10444.7	6741.9	6156.1	6156.1	6114.9	6137.7	6156.1	6201.8
23461.6	32.5°	21649.2	17992.1	9259.2	6037.0	5908.9	5863.1	5904.3	5950.1	5968.4	6027.9
25013.2	35°	22555.4	17818.2	8316.4	5652.6	5652.6	5593.1	5616.0	5606.8	5565.6	5538.2
26889.8	37.5°	23754.6	17809.1	7538.3	5474.1	5437.5	5428.3	5432.9	5373.4	5213.2	5021.0
29160.0	40°	25196.3	18056.2	6938.7	5350.5	5323.0	5378.0	5350.5	5190.3	4750.9	4416.8
31952.0	42.5°	27132.4	18761.1	6554.2	5199.5	5281.8	5350.5	5240.7	4686.8	4389.3	4165.1
35133.0	45°	29411.7	19905.3	6357.4	5039.3	5204.0	5286.4	4755.5	4512.9	4274.9	4004.9
38602.3	47.5°	31993.2	21347.1	6311.7	4888.2	5030.1	5080.5	4549.5	4439.7	4169.6	3876.7
42090.0	50°	34803.4	23054.3	6435.2	4709.7	4778.4	4604.5	4480.9	4380.2	4101.0	3812.6
45664.6	52.5°	37709.8	24935.4	6682.4	4467.1	4526.6	4334.4	4453.4	4366.4	4059.8	3670.7
49358.2	55°	40565.9	26830.3	6920.4	4183.4	4270.3	4091.8	4375.6	4311.5	3872.1	3432.7
53299.0	57.5°	43467.7	28716.0	7153.8	3931.6	4023.2	3858.4	4252.0	4165.1	3661.6	3213.0
57601.4	60°	46483.9	30546.8	7263.7	3689.1	3753.1	3643.3	4064.4	3913.3	3423.6	2988.8
61830.5	62.5°	49307.9	32071.0	7085.2	3446.5	3487.7	3441.9	3817.2	3615.8	3185.6	2737.0
66238.2	65°	52141.1	32977.2	6535.9	3208.5	3217.6	3194.7	3469.4	3295.4	2906.4	2517.3
70096.6	67.5°	54708.7	33485.3	5661.7	2952.2	2929.3	2920.1	3144.4	2947.6	2636.3	2297.6
73030.4	70°	55253.4	32194.5	4325.3	2650.1	2650.1	2627.2	2787.4	2586.0	2338.8	2064.2
70929.6	72.5°	50465.9	27082.0	3071.2	2306.8	2343.4	2297.6	2430.4	2261.0	2036.8	1853.7
61130.3	75°	40694.0	19859.6	2233.6	1954.4	2018.5	1940.6	2064.2	1945.2	1753.0	1748.4
42126.6	77.5°	27960.8	12280.1	1620.3	1611.1	1656.9	1556.2	1698.1	1634.0	1460.1	1382.3
18335.4	80°	11932.2	4897.4	1180.9	1244.9	1244.9	1153.4	1318.2	1336.5	1185.4	1148.8
3538.0	82.5°	2375.5	1391.4	828.4	855.9	805.6	778.1	933.7	1034.4	1428.0	1588.2
1066.4	85°	714.0	512.6	498.9	466.9	411.9	416.5	549.2	1039.0	1281.6	732.3
352.4	87.5°	196.8	128.2	132.7	105.3	87.0	114.4	187.7	787.2	430.2	183.1
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°
17369.7
16815.9
15346.6
12962.0
10348.6
8673.4
7584.1
7259.1
7130.9
6838.0
6503.9
6325.4
6233.9
6078.2
5602.2
5025.5
4407.6
4155.9
3986.6
3853.8
3780.6
3643.3
3409.9
3203.9
2975.0
2732.5
2489.9
2270.2
2055.1
1798.8
1574.5
1295.3
1148.8
1592.8
631.6
155.6
0.0

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