

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: P951942

Luminaire Tested: **GALN-SB5D-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
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-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37940 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

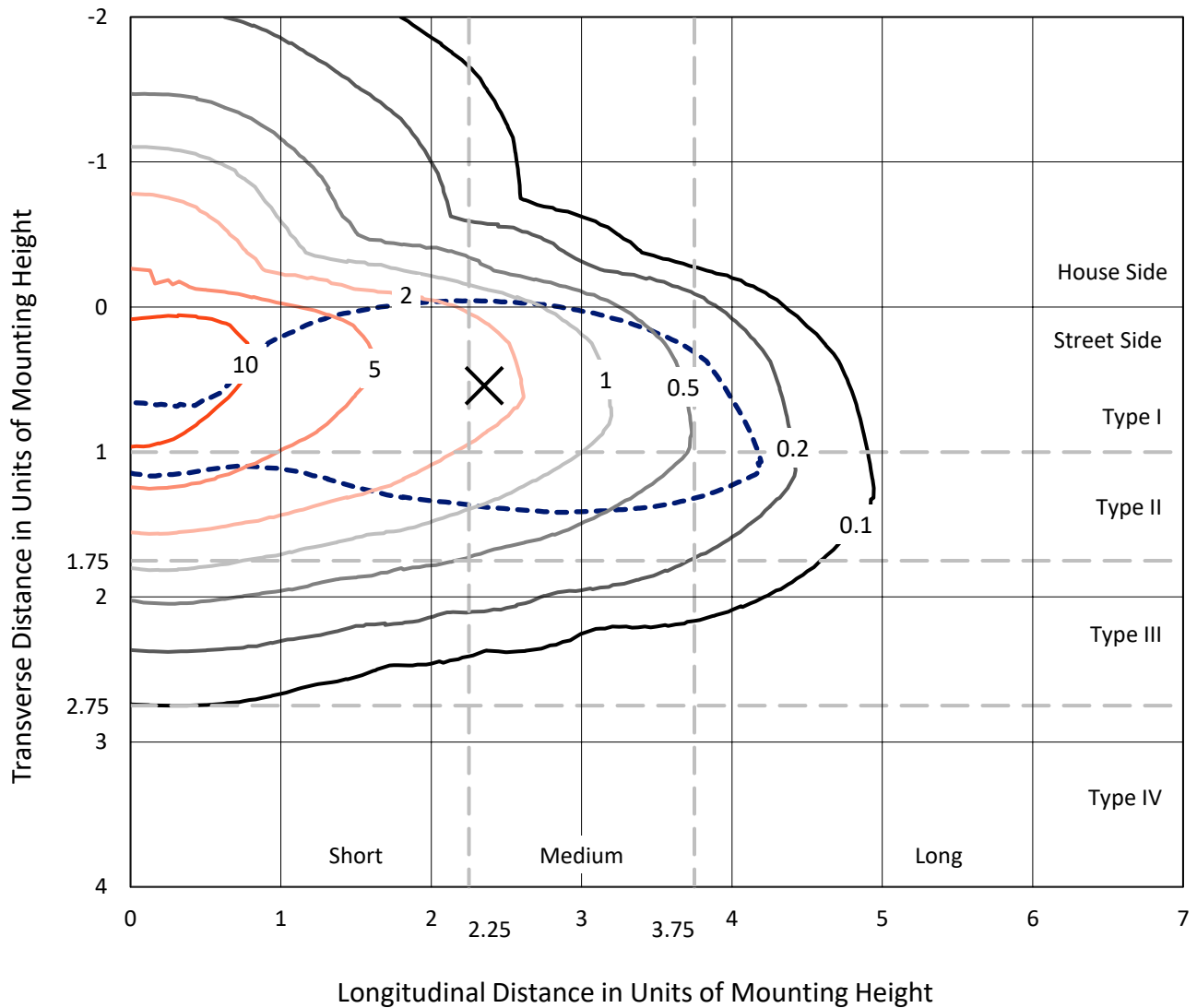
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951942
 CATALOG NUMBER: GALN-SB5D-940-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

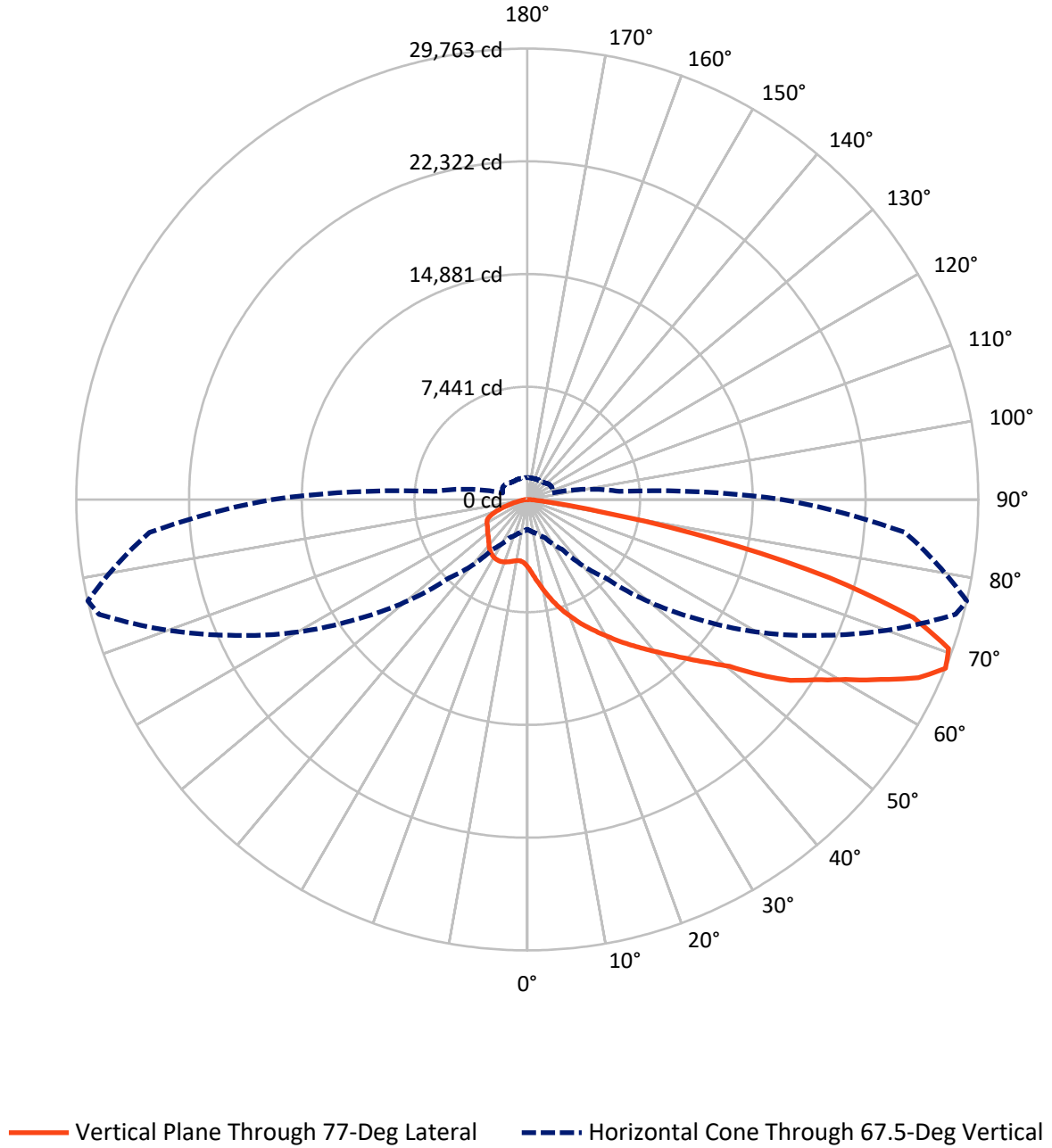
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P951942
CATALOG NUMBER: GALN-SB5D-940-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7176.7	0.0	7176.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	30763.3	0.0	30763.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	37940.0	0.0	37940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.1	1.3
10°-20°	1714.2	4.5
20°-30°	3236.6	8.5
30°-40°	5214.0	13.7
40°-50°	7131.9	18.8
50°-60°	8044.8	21.2
60°-70°	7508.8	19.8
70°-80°	4116.1	10.8
80°-90°	496.5	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°	37940.0	100.0
0°-180°	37940.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951942

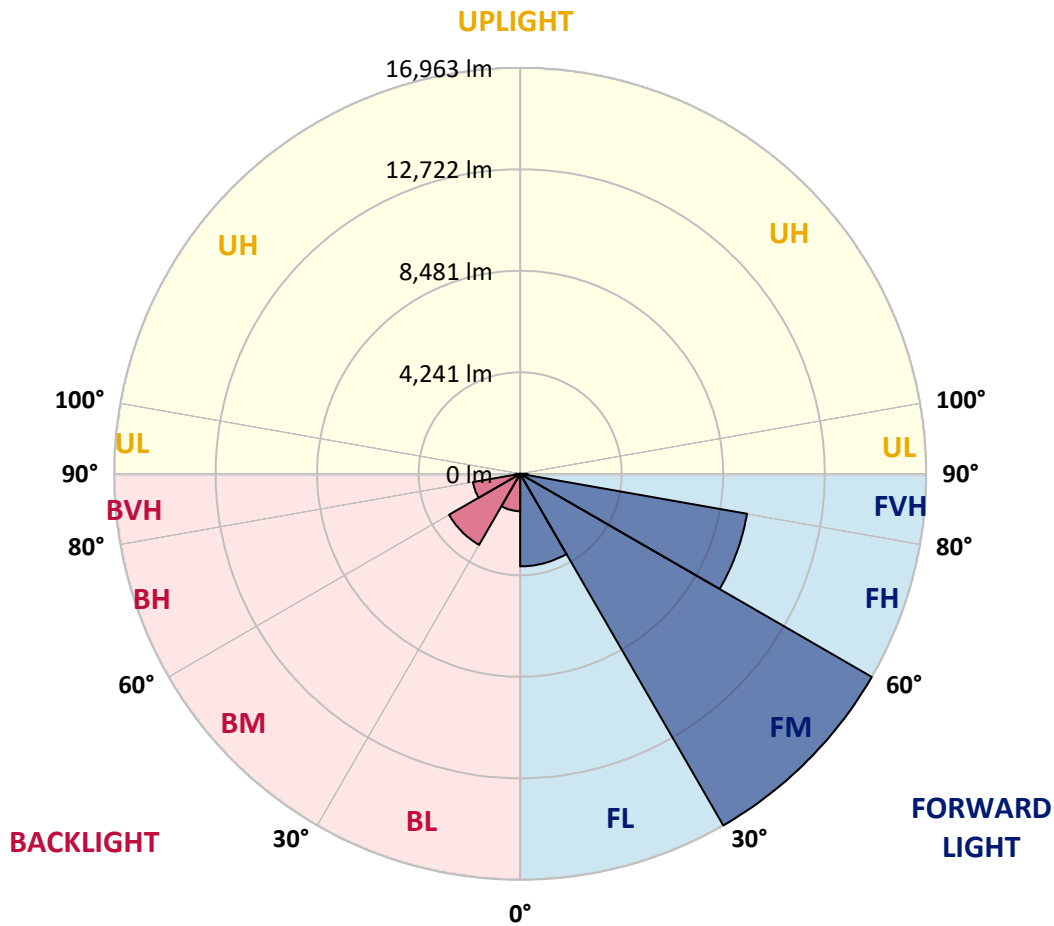
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3867.5	10.2			
FM (30°-60°)	16962.6	44.7			
FH (60°-80°)	9622.7	25.4			G4/12000
FVH (80°-90°)	310.5	0.8			G3/500
BL (0°-30°)	1560.4	4.1	B3/2500		
BM (30°-60°)	3428.1	9.0	B3/5000		
BH (60°-80°)	2002.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	186.0	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 II Medium



REPORT NUMBER: P951942
 CATALOG NUMBER: GALN-SB5D-940-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5
2.5°	5573.7	5612.9	5563.9	5563.9	5399.4	5313.3	5148.7	5023.4	4798.2	4759.0
5°	6588.2	6637.2	6568.6	6539.2	6345.4	6167.1	5891.0	5618.8	5217.3	5176.2
7.5°	7373.5	7436.2	7375.5	7344.2	7171.8	6972.1	6648.9	6269.0	5703.0	5622.7
10°	8013.9	8023.7	8004.2	8015.9	7880.8	7716.3	7385.3	6942.7	6235.7	6126.0
12.5°	8376.3	8421.3	8460.5	8531.0	8507.5	8405.6	8108.0	7579.2	6799.7	6658.7
15°	8546.6	8625.0	8713.1	8875.7	9006.9	9032.3	8805.2	8262.7	7373.5	7203.2
17.5°	8607.4	8681.8	8820.8	9055.8	9337.9	9527.8	9426.0	8926.6	7941.5	7745.6
20°	8914.8	8936.4	9020.6	9243.9	9549.4	9864.7	9941.1	9565.0	8503.6	8282.3
22.5°	9572.9	9529.8	9553.3	9655.1	9874.5	10180.0	10354.3	10129.1	9081.3	8826.7
25°	10659.8	10534.5	10409.1	10291.6	10403.2	10575.6	10773.4	10693.1	9686.5	9363.3
27.5°	12032.7	11879.9	11603.8	11218.0	11082.8	11143.5	11231.7	11216.0	10246.6	9919.5
30°	13384.0	13205.8	12876.8	12318.6	11962.2	11801.6	11735.0	11689.9	10855.6	10507.0
32.5°	14463.1	14322.1	13998.9	13374.2	12857.2	12583.0	12361.7	12201.1	11492.1	11143.5
35°	15407.1	15275.9	14905.7	14224.2	13662.1	13370.3	13080.4	12737.7	12154.1	11801.6
37.5°	16268.8	16137.6	15630.3	14921.4	14355.4	14153.7	13895.2	13313.5	12818.0	12485.1
40°	16813.2	16783.9	16309.9	15507.0	14919.4	14819.5	14733.4	13981.3	13554.4	13244.9
42.5°	16952.3	17016.9	16640.9	15980.9	15420.8	15340.5	15542.2	14737.3	14380.8	14085.1
45°	16617.4	16803.4	16556.7	16108.2	15777.2	15734.1	16259.0	15563.7	15295.4	15025.2
47.5°	15769.4	16084.7	15982.9	15920.2	15873.2	16059.2	16889.6	16441.1	16331.5	16096.4
50°	14057.7	14655.0	14833.2	15228.9	15683.2	16311.9	17463.4	17398.8	17541.8	17304.8
52.5°	11098.5	11921.0	12955.1	13946.1	15099.6	16227.7	18094.1	18773.6	19376.8	19247.6
55°	9161.6	9531.7	10326.9	12144.3	13967.6	15873.2	18378.0	19884.1	21198.2	21082.6
57.5°	7673.2	8004.2	8493.8	10011.6	12255.9	15068.3	18554.3	20561.7	22445.7	22434.0
60°	6077.0	6427.6	6929.0	8004.2	10256.4	13677.8	18515.1	21333.3	24037.9	24135.9
62.5°	4275.3	4661.1	5217.3	6220.0	8213.7	11876.0	17716.1	21891.5	25912.2	26178.5
65°	2810.4	3065.0	3484.1	4349.7	6120.1	9559.2	16190.4	21963.9	27917.6	28368.0
67.5°	1970.2	2068.1	2314.9	2784.9	4034.4	7330.5	13760.0	21213.9	29255.2	29762.5
70°	1537.4	1586.3	1711.7	1899.7	2534.2	4929.4	10544.3	19263.2	28969.3	29498.1
72.5°	1327.8	1374.8	1421.8	1445.3	1699.9	3043.4	7142.4	16106.2	26276.4	26634.8
75°	1204.4	1216.2	1255.4	1247.5	1296.5	1974.1	4122.5	11735.0	20732.1	20608.7
77.5°	1012.5	1028.2	1092.8	1083.0	1151.6	1349.4	2140.6	7573.3	13440.8	12602.6
80°	857.8	865.6	936.1	924.4	1000.8	977.3	1092.8	3860.1	5701.0	4829.5
82.5°	297.7	368.2	714.8	736.4	763.8	591.4	630.6	1574.6	1741.1	1333.7
85°	144.9	154.7	364.3	517.0	515.1	297.7	307.5	562.1	548.4	430.9
87.5°	23.5	29.4	43.1	201.7	160.6	78.3	105.8	109.7	113.6	97.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951942
 CATALOG NUMBER: GALN-SB5D-940-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4451.5	0°	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5	4451.5
4610.2	2.5°	4500.5	4402.6	4196.9	4007.0	3858.1	3715.2	3634.9	3566.3	3527.2	3519.3
4825.6	5°	4621.9	4420.2	4046.1	3730.8	3525.2	3372.4	3292.1	3241.2	3215.8	3200.1
5115.5	7.5°	4796.2	4500.5	3967.8	3609.4	3394.0	3284.3	3243.2	3235.3	3233.4	3235.3
5466.0	10°	5037.1	4631.7	3960.0	3580.0	3399.9	3339.1	3337.2	3339.1	3347.0	3348.9
5847.9	12.5°	5297.6	4766.8	3991.3	3605.5	3474.3	3441.0	3435.1	3433.2	3439.0	3442.9
6233.7	15°	5581.6	4945.1	4044.2	3660.3	3556.5	3521.3	3515.4	3503.7	3501.7	3499.7
6639.1	17.5°	5873.4	5121.3	4102.9	3719.1	3609.4	3560.4	3538.9	3511.5	3489.9	3484.1
7058.2	20°	6169.1	5295.6	4144.1	3748.5	3613.3	3544.8	3501.7	3454.7	3417.5	3395.9
7481.3	22.5°	6484.4	5477.8	4169.5	3740.6	3578.1	3484.1	3405.7	3350.9	3294.1	3256.9
7908.2	25°	6791.9	5636.4	4167.6	3699.5	3509.5	3390.1	3290.2	3219.7	3141.3	3102.2
8348.8	27.5°	7087.6	5779.4	4118.6	3627.0	3411.6	3278.4	3159.0	3074.8	2998.4	2961.2
8793.4	30°	7393.1	5898.8	4042.2	3521.3	3296.1	3149.2	3018.0	2945.5	2877.0	2841.7
9263.4	32.5°	7696.7	6008.5	3934.5	3390.1	3162.9	3021.9	2892.6	2826.0	2784.9	2784.9
9768.7	35°	8017.9	6084.9	3791.5	3237.3	3021.9	2886.7	2784.9	2745.7	2741.8	2718.3
10303.4	37.5°	8356.7	6133.8	3617.2	3080.6	2882.8	2755.5	2724.2	2677.2	2638.0	2587.1
10890.9	40°	8713.1	6182.8	3407.7	2918.1	2735.9	2665.4	2651.7	2589.1	2477.4	2352.1
11556.8	42.5°	9145.9	6216.1	3190.3	2755.5	2581.2	2557.7	2577.3	2469.6	2291.4	2197.4
12359.7	45°	9647.3	6270.9	2990.5	2594.9	2422.6	2422.6	2504.8	2363.8	2217.0	2158.2
13276.3	47.5°	10297.5	6398.2	2804.5	2418.7	2275.7	2314.9	2344.3	2236.5	2154.3	2081.8
14392.6	50°	11237.5	6703.8	2612.6	2240.5	2164.1	2242.4	2201.3	2138.6	2042.7	1983.9
16166.9	52.5°	12404.8	6883.9	2442.2	2079.9	2068.1	2146.5	2087.7	2028.9	1956.5	1878.1
17512.4	55°	13199.9	6917.2	2299.2	1962.4	2003.5	1995.7	1974.1	1921.2	1882.1	1778.3
18840.2	57.5°	14089.0	6983.8	2181.7	1891.9	1962.4	1876.2	1868.4	1823.3	1772.4	1701.9
20459.9	60°	15152.5	7087.6	2079.9	1864.4	1927.1	1797.9	1758.7	1741.1	1690.1	1654.9
22408.5	62.5°	16311.9	7181.6	1976.1	1868.4	1886.0	1721.5	1662.7	1656.8	1625.5	1613.8
24237.7	65°	17103.1	6925.1	1846.8	1864.4	1821.4	1643.1	1568.7	1566.8	1541.3	1537.4
25030.9	67.5°	16826.9	6112.3	1672.5	1809.6	1754.8	1564.8	1482.5	1474.7	1441.4	1443.4
24202.4	70°	15444.3	4952.9	1431.6	1674.5	1672.5	1494.3	1392.5	1367.0	1321.9	1329.8
21043.5	72.5°	12851.3	3670.1	1108.5	1449.2	1541.3	1429.7	1288.7	1247.5	1190.7	1198.6
15534.4	75°	9281.1	2495.1	806.9	1102.6	1341.5	1353.3	1186.8	1116.3	1047.8	1059.5
8646.5	77.5°	4749.2	1414.0	593.4	759.9	1053.6	1229.9	1094.8	1000.8	985.1	1094.8
2493.1	80°	1549.1	709.0	411.3	532.7	691.3	1006.6	959.6	851.9	848.0	873.5
522.9	82.5°	462.2	299.6	264.4	350.6	381.9	771.6	828.4	644.3	554.2	583.6
174.3	85°	158.6	144.9	150.8	174.3	182.1	452.4	579.7	426.9	403.4	444.6
39.2	87.5°	37.2	50.9	43.1	39.2	39.2	109.7	225.2	178.2	246.8	164.5
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°
4451.5
3519.3
3198.1
3241.2
3350.9
3444.9
3497.8
3489.9
3403.8
3258.8
3102.2
2959.2
2839.7
2786.9
2712.4
2579.3
2334.5
2199.3
2168.0
2079.9
1978.0
1862.5
1780.2
1678.4
1664.7
1613.8
1535.4
1443.4
1337.6
1196.6
1063.4
1079.1
750.1
603.2
438.7
158.6
0.0

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