

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: P953139

Luminaire Tested: **GALN-SB6D-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953139
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-SB6D-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 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: 66496 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

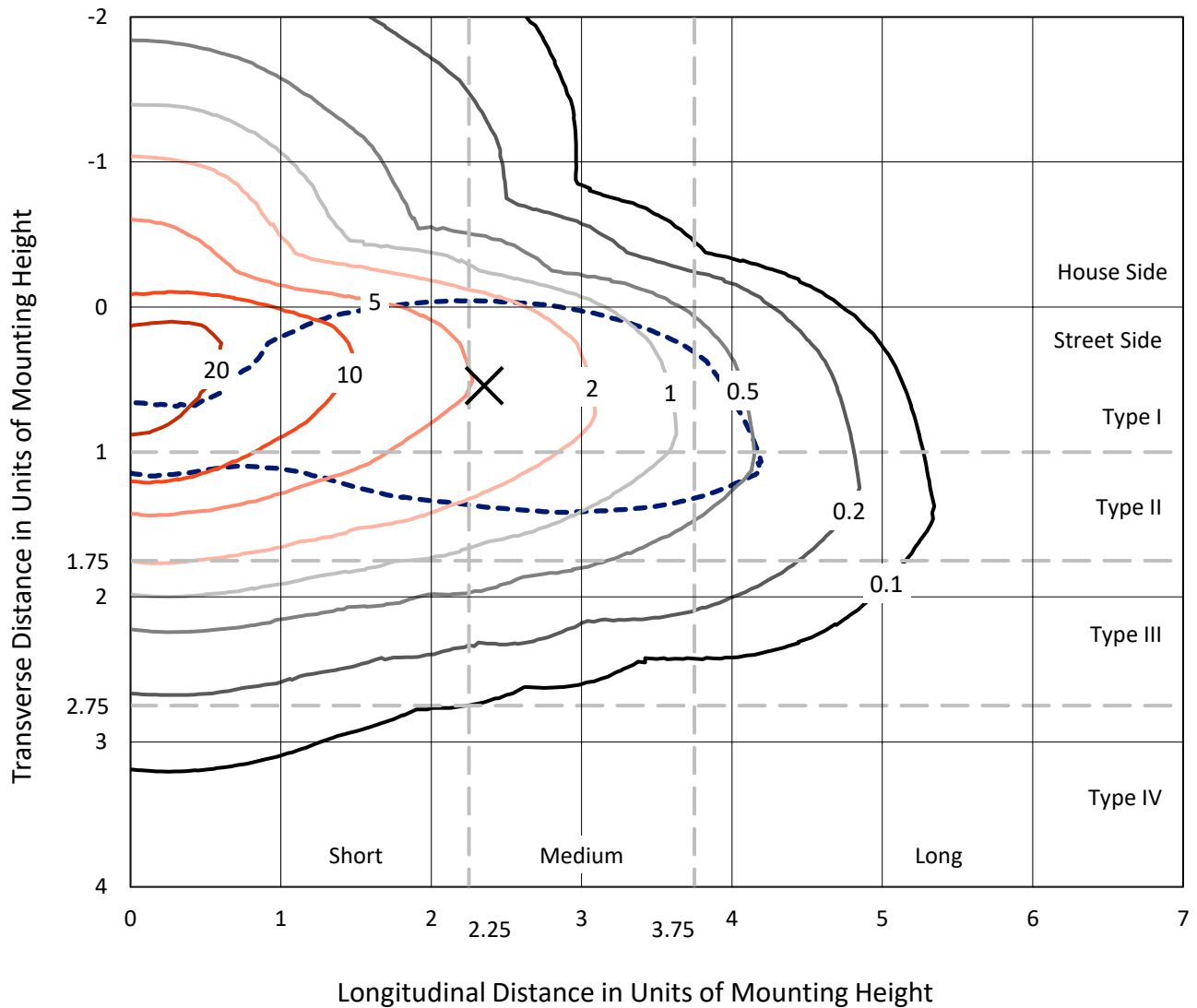
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

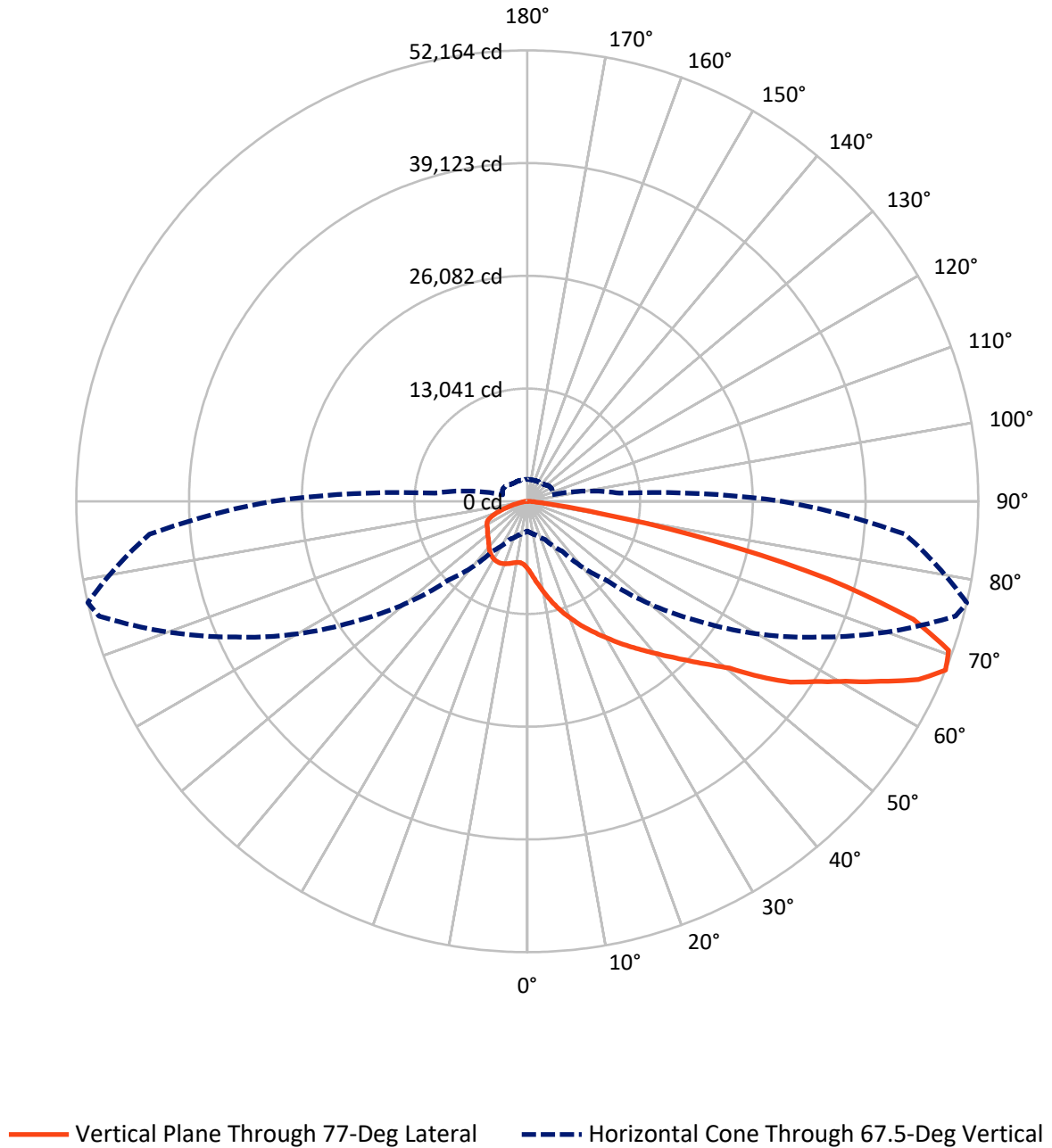
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12578.4	0.0	12578.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	53917.6	0.0	53917.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	66496.0	0.0	66496.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.3	1.3
10°-20°	3004.4	4.5
20°-30°	5672.6	8.5
30°-40°	9138.5	13.7
40°-50°	12499.7	18.8
50°-60°	14099.8	21.2
60°-70°	13160.4	19.8
70°-80°	7214.1	10.8
80°-90°	870.2	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°	66496.0	100.0
0°-180°	66496.0	100.0

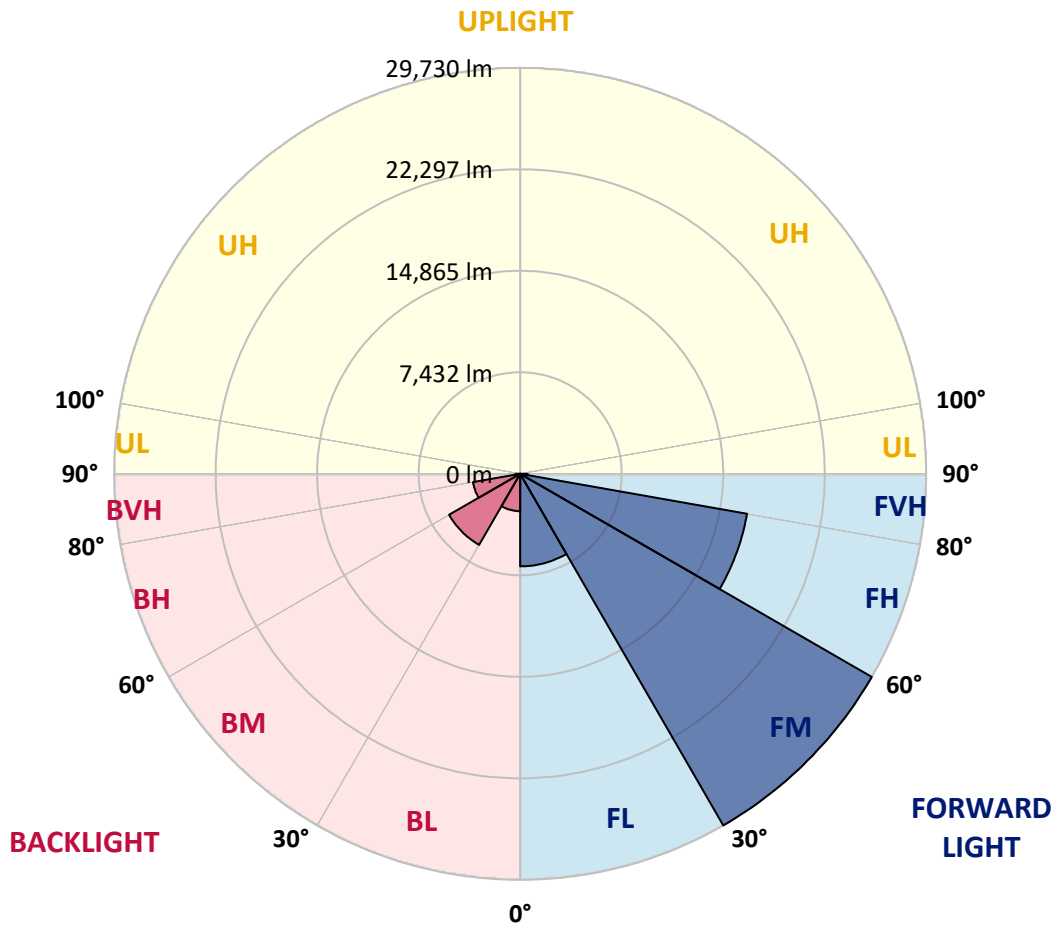


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6778.4	10.2			
FM (30°-60°)	29729.6	44.7			
FH (60°-80°)	16865.4	25.4			G5
FVH (80°-90°)	544.2	0.8			G4/750
BL (0°-30°)	2734.8	4.1	B4/5000		
BM (30°-60°)	6008.4	9.0	B4/8500		
BH (60°-80°)	3509.2	5.3	B4/5000		G4/5000
BVH (80°-90°)	326.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0
2.5°	9768.9	9837.5	9751.7	9751.7	9463.4	9312.3	9024.0	8804.3	8409.6	8340.9
5°	11546.9	11632.7	11512.6	11461.1	11121.3	10808.9	10324.9	9847.8	9144.1	9072.1
7.5°	12923.3	13033.2	12926.8	12871.8	12569.8	12219.7	11653.3	10987.4	9995.4	9854.7
10°	14045.7	14062.9	14028.6	14049.2	13812.3	13524.0	12943.9	12168.2	10929.0	10736.8
12.5°	14680.8	14759.7	14828.4	14951.9	14910.7	14732.2	14210.5	13283.7	11917.6	11670.5
15°	14979.4	15116.7	15271.1	15556.0	15786.0	15830.6	15432.5	14481.7	12923.3	12624.7
17.5°	15085.8	15216.2	15459.9	15871.8	16366.1	16699.1	16520.6	15645.3	13918.7	13575.5
20°	15624.7	15662.4	15810.0	16201.3	16736.8	17289.4	17423.3	16764.3	14903.9	14516.0
22.5°	16778.0	16702.5	16743.7	16922.2	17306.6	17842.1	18147.6	17752.8	15916.4	15470.2
25°	18683.0	18463.4	18243.7	18037.7	18233.4	18535.4	18882.1	18741.4	16977.1	16410.7
27.5°	21089.2	20821.5	20337.5	19661.3	19424.5	19530.9	19685.3	19657.9	17958.8	17385.6
30°	23457.6	23145.3	22568.6	21590.4	20965.6	20684.2	20567.5	20488.5	19026.3	18415.3
32.5°	25348.9	25101.8	24535.4	23440.5	22534.3	22053.7	21665.9	21384.4	20141.8	19530.9
35°	27003.4	26773.4	26124.7	24930.2	23945.0	23433.6	22925.6	22324.9	21302.0	20684.2
37.5°	28513.7	28283.7	27394.7	26152.1	25160.1	24806.6	24353.5	23334.1	22465.6	21882.1
40°	29467.9	29416.4	28585.8	27178.4	26148.7	25973.6	25822.6	24504.5	23756.3	23213.9
42.5°	29711.6	29824.9	29165.9	28009.1	27027.4	26886.7	27240.2	25829.5	25204.8	24686.5
45°	29124.7	29450.8	29018.3	28232.2	27652.1	27576.6	28496.5	27278.0	26807.7	26334.1
47.5°	27638.4	28191.0	28012.5	27902.7	27820.3	28146.4	29601.8	28815.7	28623.5	28211.6
50°	24638.4	25685.3	25997.7	26691.0	27487.4	28589.2	30607.5	30494.2	30744.8	30329.5
52.5°	19451.9	20893.6	22705.9	24442.8	26464.5	28441.6	31712.8	32903.8	33961.0	33734.5
55°	16057.2	16705.9	18099.5	21284.9	24480.5	27820.3	32210.5	34850.1	37153.3	36950.7
57.5°	13448.5	14028.6	14886.7	17546.9	21480.5	26409.6	32519.4	36037.7	39339.8	39319.2
60°	10651.0	11265.4	12144.1	14028.6	17975.9	23972.5	32450.7	37390.1	42130.4	42302.0
62.5°	7493.1	8169.3	9144.1	10901.6	14395.9	20814.6	31050.3	38368.4	45415.3	45882.1
65°	4925.6	5371.8	6106.4	7623.6	10726.5	16754.0	28376.4	38495.4	48930.1	49719.6
67.5°	3453.1	3624.7	4057.2	4881.0	7070.9	12847.8	24116.7	37180.7	51274.5	52163.5
70°	2694.5	2780.3	3000.0	3329.5	4441.6	8639.6	18480.5	33762.0	50773.4	51700.1
72.5°	2327.2	2409.6	2492.0	2533.2	2979.4	5334.1	12518.3	28228.8	46053.7	46681.8
75°	2111.0	2131.6	2200.2	2186.5	2272.3	3459.9	7225.4	20567.5	36336.3	36120.1
77.5°	1774.6	1802.1	1915.3	1898.2	2018.3	2365.0	3751.7	13273.4	23557.2	22088.1
80°	1503.4	1517.2	1640.7	1620.1	1754.0	1712.8	1915.3	6765.4	9992.0	8464.5
82.5°	521.7	645.3	1252.9	1290.6	1338.7	1036.6	1105.3	2759.7	3051.5	2337.5
85°	254.0	271.2	638.4	906.2	902.7	521.7	538.9	985.1	961.1	755.1
87.5°	41.2	51.5	75.5	353.5	281.5	137.3	185.4	192.2	199.1	171.6
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°
7802.0	0°	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0	7802.0
8080.1	2.5°	7887.9	7716.2	7355.8	7022.9	6762.0	6511.4	6370.7	6250.6	6181.9	6168.2
8457.7	5°	8100.7	7747.1	7091.5	6538.9	6178.5	5910.7	5770.0	5680.8	5636.1	5608.7
8965.7	7.5°	8406.2	7887.9	6954.2	6326.1	5948.5	5756.3	5684.2	5670.5	5667.0	5670.5
9580.1	10°	8828.4	8117.8	6940.5	6274.6	5958.8	5852.4	5849.0	5852.4	5866.1	5869.6
10249.4	12.5°	9284.9	8354.7	6995.4	6319.2	6089.2	6030.9	6020.6	6017.2	6027.5	6034.3
10925.6	15°	9782.6	8667.0	7088.1	6415.3	6233.4	6171.6	6161.3	6140.7	6137.3	6133.9
11636.1	17.5°	10294.0	8976.0	7191.1	6518.3	6326.1	6240.3	6202.5	6154.5	6116.7	6106.4
12370.7	20°	10812.3	9281.4	7263.1	6569.8	6332.9	6212.8	6137.3	6054.9	5989.7	5951.9
13112.1	22.5°	11365.0	9600.7	7307.8	6556.1	6271.2	6106.4	5969.1	5873.0	5773.4	5708.2
13860.4	25°	11903.9	9878.7	7304.3	6484.0	6151.0	5941.6	5766.6	5643.0	5505.7	5437.1
14632.7	27.5°	12422.2	10129.3	7218.5	6357.0	5979.4	5746.0	5536.6	5389.0	5255.1	5189.9
15411.9	30°	12957.6	10338.7	7084.7	6171.6	5776.9	5519.4	5289.5	5162.5	5042.3	4980.5
16235.7	32.5°	13489.7	10530.9	6895.9	5941.6	5543.5	5296.3	5069.8	4953.1	4881.0	4881.0
17121.3	35°	14052.6	10664.7	6645.3	5673.9	5296.3	5059.5	4881.0	4812.3	4805.5	4764.3
18058.3	37.5°	14646.4	10750.6	6339.8	5399.3	5052.6	4829.5	4774.6	4692.2	4623.6	4534.3
19088.1	40°	15271.1	10836.4	5972.5	5114.4	4795.2	4671.6	4647.6	4537.7	4342.1	4122.4
20255.1	42.5°	16029.7	10894.7	5591.5	4829.5	4524.0	4482.8	4517.2	4328.4	4016.0	3851.3
21662.4	45°	16908.4	10990.8	5241.4	4548.0	4246.0	4246.0	4390.2	4143.0	3885.6	3782.6
23268.8	47.5°	18048.0	11213.9	4915.3	4239.1	3988.6	4057.2	4108.7	3919.9	3775.7	3648.7
25225.4	50°	19695.6	11749.4	4578.9	3926.8	3792.9	3930.2	3858.1	3748.3	3580.1	3477.1
28335.2	52.5°	21741.4	12065.2	4280.3	3645.3	3624.7	3762.0	3659.0	3556.1	3429.1	3291.8
30693.3	55°	23135.0	12123.5	4029.7	3439.4	3511.4	3497.7	3459.9	3367.3	3298.6	3116.7
33020.5	57.5°	24693.3	12240.3	3823.8	3315.8	3439.4	3288.3	3274.6	3195.6	3106.4	2982.8
35859.2	60°	26557.2	12422.2	3645.3	3267.7	3377.6	3151.0	3082.4	3051.5	2962.2	2900.5
39274.5	62.5°	28589.2	12586.9	3463.4	3274.6	3305.5	3017.2	2914.2	2903.9	2849.0	2828.4
42480.5	65°	29975.9	12137.3	3236.8	3267.7	3192.2	2879.9	2749.4	2746.0	2701.4	2694.5
43870.6	67.5°	29491.9	10712.8	2931.3	3171.6	3075.5	2742.6	2598.4	2584.7	2526.3	2529.7
42418.7	70°	27068.6	8680.8	2509.1	2934.8	2931.3	2619.0	2440.5	2395.9	2316.9	2330.7
36882.1	72.5°	22524.0	6432.5	1942.8	2540.0	2701.4	2505.7	2258.6	2186.5	2087.0	2100.7
27226.5	75°	16266.6	4373.0	1414.2	1932.5	2351.3	2371.8	2080.1	1956.5	1836.4	1857.0
15154.4	77.5°	8323.8	2478.3	1040.0	1331.8	1846.7	2155.6	1918.8	1754.0	1726.5	1918.8
4369.6	80°	2715.1	1242.6	720.8	933.6	1211.7	1764.3	1681.9	1493.1	1486.3	1530.9
916.5	82.5°	810.1	525.2	463.4	614.4	669.3	1352.4	1451.9	1129.3	971.4	1022.9
305.5	85°	278.0	254.0	264.3	305.5	319.2	792.9	1016.0	748.3	707.1	779.2
68.6	87.5°	65.2	89.2	75.5	68.6	68.6	192.2	394.7	312.4	432.5	288.3
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°
7802.0
6168.2
5605.3
5680.8
5873.0
6037.7
6130.4
6116.7
5965.7
5711.7
5437.1
5186.5
4977.1
4884.4
4754.0
4520.6
4091.5
3854.7
3799.8
3645.3
3466.8
3264.3
3120.1
2941.6
2917.6
2828.4
2691.1
2529.7
2344.4
2097.3
1863.8
1891.3
1314.6
1057.2
768.9
278.0
0.0

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