

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: P957129

Luminaire Tested: **GALN-SB9C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957129
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-SB9C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60417 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

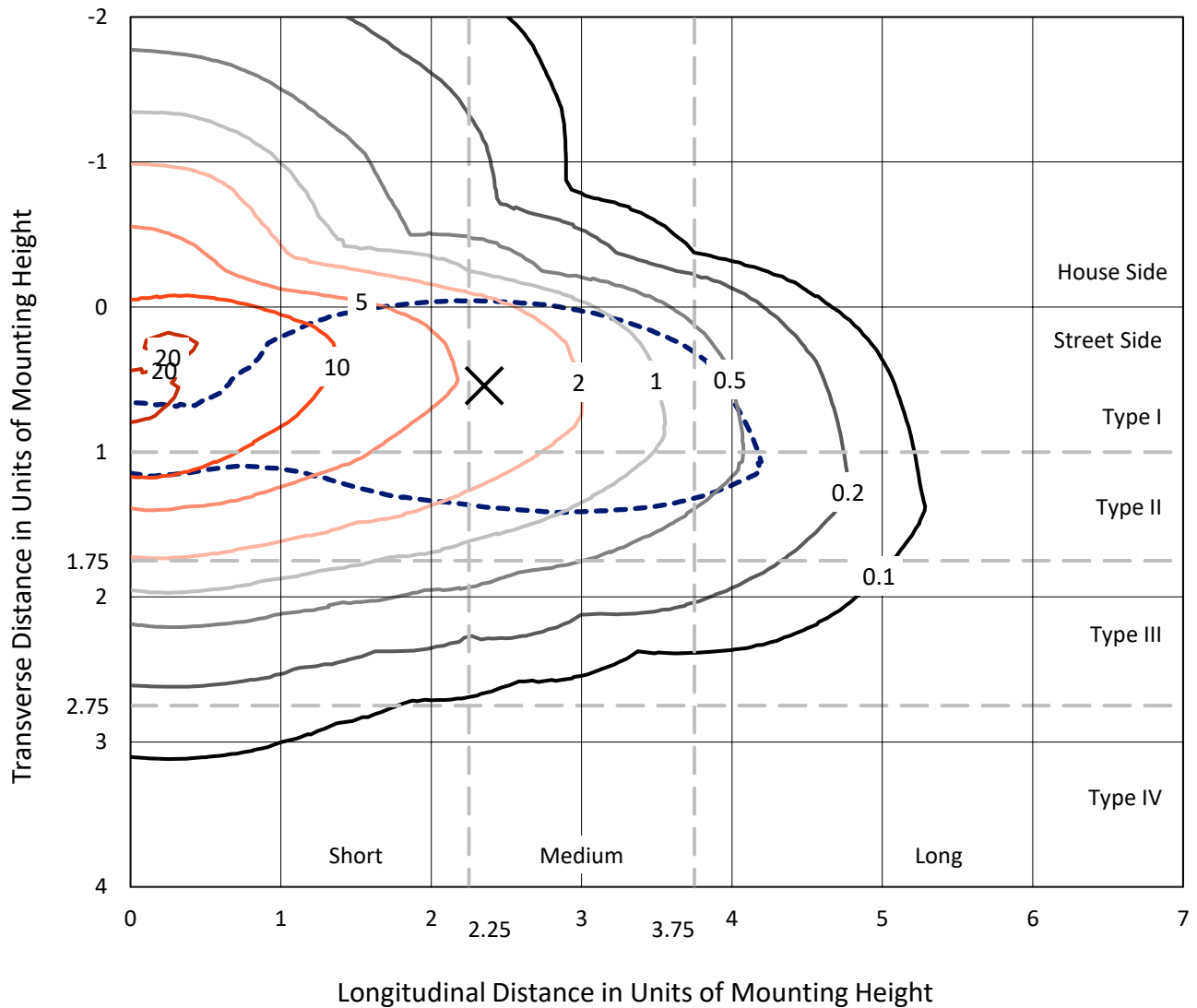
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

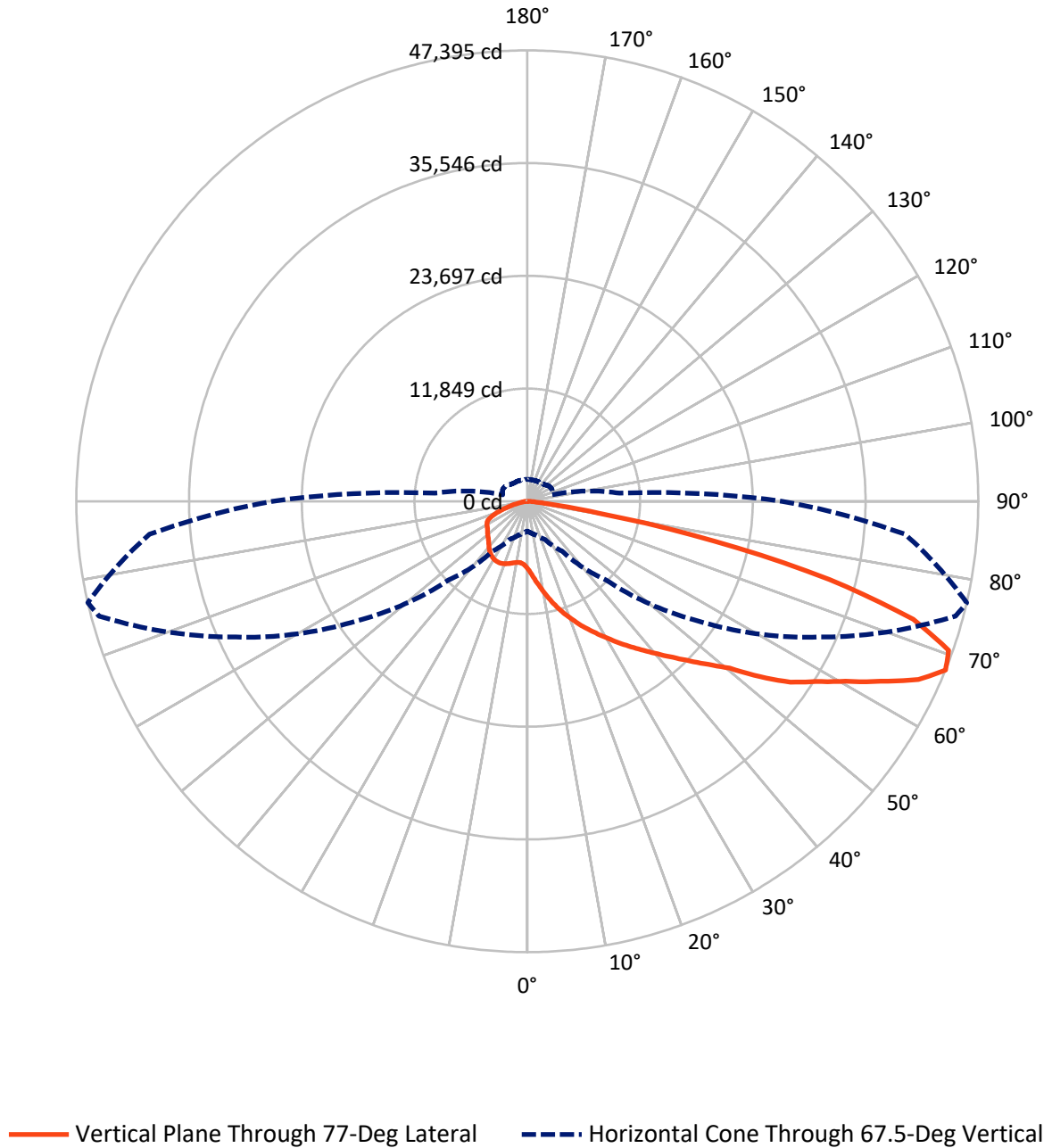
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 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	11428.5	0.0	11428.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	48988.5	0.0	48988.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	60417.0	0.0	60417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.8	1.3
10°-20°	2729.7	4.5
20°-30°	5154.0	8.5
30°-40°	8303.0	13.7
40°-50°	11357.0	18.8
50°-60°	12810.8	21.2
60°-70°	11957.3	19.8
70°-80°	6554.6	10.8
80°-90°	790.6	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°	60417.0	100.0
0°-180°	60417.0	100.0

Coefficient of Utilization

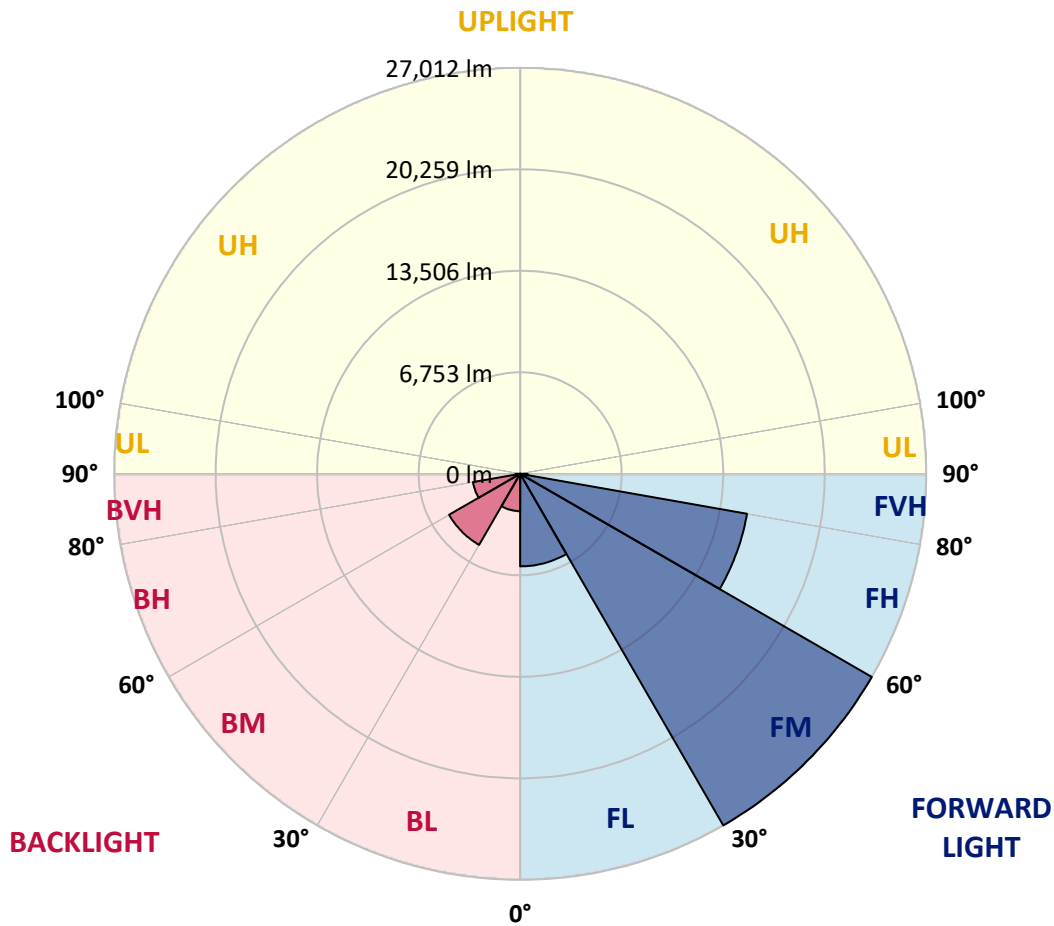


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6158.8	10.2			
FM (30°-60°)	27011.8	44.7			
FH (60°-80°)	15323.5	25.4			G5
FVH (80°-90°)	494.4	0.8			G3/500
BL (0°-30°)	2484.8	4.1	B3/2500		
BM (30°-60°)	5459.1	9.0	B4/8500		
BH (60°-80°)	3188.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	296.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8
2.5°	8875.8	8938.2	8860.2	8860.2	8598.2	8461.0	8199.0	7999.4	7640.8	7578.4
5°	10491.3	10569.3	10460.1	10413.3	10104.6	9820.8	9381.0	8947.5	8308.2	8242.7
7.5°	11741.9	11841.7	11745.0	11695.1	11420.7	11102.6	10588.0	9982.9	9081.6	8953.8
10°	12761.7	12777.3	12746.1	12764.8	12549.6	12287.7	11760.6	11055.8	9929.9	9755.3
12.5°	13338.7	13410.4	13472.8	13585.0	13547.6	13385.4	12911.4	12069.3	10828.1	10603.6
15°	13610.0	13734.7	13875.1	14133.9	14342.9	14383.4	14021.6	13157.8	11741.9	11470.6
17.5°	13706.7	13825.2	14046.6	14420.8	14869.9	15172.4	15010.3	14215.0	12646.3	12334.4
20°	14196.3	14230.6	14364.7	14720.2	15206.8	15708.9	15830.5	15231.7	13541.4	13189.0
22.5°	15244.2	15175.6	15213.0	15375.2	15724.5	16211.0	16488.5	16129.9	14461.4	14056.0
25°	16975.1	16775.5	16575.9	16388.7	16566.5	16840.9	17155.9	17028.1	15425.1	14910.5
27.5°	19161.3	18918.0	18478.3	17863.9	17648.7	17745.4	17885.7	17860.8	16317.0	15796.2
30°	21313.2	21029.4	20505.4	19616.6	19049.0	18793.2	18687.2	18615.5	17286.9	16731.8
32.5°	23031.6	22807.0	22292.4	21297.6	20474.2	20037.6	19685.2	19429.5	18300.5	17745.4
35°	24534.8	24325.8	23736.4	22651.1	21756.0	21291.3	20829.8	20284.0	19354.6	18793.2
37.5°	25907.0	25698.0	24890.3	23761.3	22860.0	22538.8	22127.1	21200.9	20411.9	19881.7
40°	26774.0	26727.2	25972.5	24693.8	23758.2	23599.2	23461.9	22264.4	21584.5	21091.7
42.5°	26995.4	27098.3	26499.5	25448.5	24556.6	24428.7	24750.0	23468.2	22900.6	22429.6
45°	26462.1	26758.4	26365.4	25651.3	25124.2	25055.6	25891.4	24784.3	24357.0	23926.6
47.5°	25111.7	25613.8	25451.7	25351.9	25277.0	25573.3	26895.6	26181.4	26006.8	25632.5
50°	22386.0	23337.2	23621.0	24251.0	24974.5	25975.6	27809.4	27706.5	27934.1	27556.8
52.5°	17673.6	18983.5	20630.2	22208.2	24045.1	25841.5	28813.6	29895.8	30856.4	30650.5
55°	14589.2	15178.7	16444.9	19339.0	22242.5	25277.0	29265.8	31664.1	33756.7	33572.7
57.5°	12219.0	12746.1	13525.8	15942.8	19516.8	23995.2	29546.5	32743.2	35743.4	35724.6
60°	9677.3	10235.6	11033.9	12746.1	16332.6	21781.0	29484.1	33971.9	38278.8	38434.8
62.5°	6808.1	7422.5	8308.2	9905.0	13079.8	18911.8	28211.7	34860.8	41263.4	41687.6
65°	4475.3	4880.8	5548.2	6926.6	9745.9	15222.3	25782.2	34976.2	44457.0	45174.3
67.5°	3137.4	3293.3	3686.3	4434.8	6424.5	11673.3	21911.9	33781.7	46587.0	47394.8
70°	2448.2	2526.1	2725.7	3025.1	4035.6	7849.8	16791.0	30675.5	46131.7	46973.8
72.5°	2114.5	2189.3	2264.2	2301.6	2707.0	4846.5	11373.9	25648.1	41843.5	42414.2
75°	1918.0	1936.7	1999.1	1986.6	2064.6	3143.6	6564.9	18687.2	33014.5	32818.0
77.5°	1612.4	1637.3	1740.2	1724.6	1833.8	2148.8	3408.7	12060.0	21403.6	20068.8
80°	1366.0	1378.5	1490.7	1472.0	1593.7	1556.2	1740.2	6146.9	9078.5	7690.7
82.5°	474.0	586.3	1138.3	1172.6	1216.3	941.8	1004.2	2507.4	2772.5	2123.8
85°	230.8	246.4	580.1	823.3	820.2	474.0	489.6	895.1	873.2	686.1
87.5°	37.4	46.8	68.6	321.2	255.7	124.7	168.4	174.6	180.9	155.9
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°
7088.8	0°	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8	7088.8
7341.4	2.5°	7166.8	7010.8	6683.4	6380.8	6143.8	5916.2	5788.3	5679.1	5616.8	5604.3
7684.5	5°	7360.1	7038.9	6443.2	5941.1	5613.6	5370.4	5242.5	5161.4	5120.9	5095.9
8146.0	7.5°	7637.7	7166.8	6318.5	5747.8	5404.7	5230.0	5164.6	5152.1	5149.0	5152.1
8704.3	10°	8021.3	7375.7	6306.0	5701.0	5414.1	5317.4	5314.3	5317.4	5329.8	5333.0
9312.4	12.5°	8436.1	7590.9	6355.9	5741.5	5532.6	5479.5	5470.2	5467.1	5476.4	5482.7
9926.8	15°	8888.3	7874.7	6440.1	5828.8	5663.5	5607.4	5598.1	5579.3	5576.2	5573.1
10572.4	17.5°	9353.0	8155.4	6533.7	5922.4	5747.8	5669.8	5635.5	5591.8	5557.5	5548.2
11239.8	20°	9823.9	8432.9	6599.2	5969.2	5754.0	5644.8	5576.2	5501.4	5442.1	5407.8
11913.4	22.5°	10326.0	8723.0	6639.7	5956.7	5697.9	5548.2	5423.4	5336.1	5245.6	5186.4
12593.3	25°	10815.6	8975.6	6636.6	5891.2	5588.7	5398.5	5239.4	5127.1	5002.4	4940.0
13295.0	27.5°	11286.6	9203.3	6558.6	5775.8	5432.8	5220.7	5030.5	4896.3	4774.7	4715.5
14002.9	30°	11773.1	9393.5	6437.0	5607.4	5248.8	5014.9	4805.9	4690.5	4581.4	4525.2
14751.4	32.5°	12256.5	9568.2	6265.5	5398.5	5036.7	4812.1	4606.3	4500.3	4434.8	4434.8
15556.0	35°	12767.9	9689.8	6037.8	5155.2	4812.1	4597.0	4434.8	4372.4	4366.2	4328.7
16407.4	37.5°	13307.5	9767.7	5760.2	4905.7	4590.7	4388.0	4338.1	4263.3	4200.9	4119.8
17343.1	40°	13875.1	9845.7	5426.5	4646.9	4356.8	4244.5	4222.7	4122.9	3945.1	3745.6
18403.4	42.5°	14564.3	9898.7	5080.4	4388.0	4110.4	4073.0	4104.2	3932.7	3648.9	3499.2
19682.1	45°	15362.7	9986.1	4762.2	4132.3	3857.8	3857.8	3988.8	3764.3	3530.4	3436.8
21141.6	47.5°	16398.1	10188.8	4466.0	3851.6	3623.9	3686.3	3733.1	3561.5	3430.6	3315.2
22919.3	50°	17895.1	10675.3	4160.3	3567.8	3446.2	3570.9	3505.4	3405.6	3252.8	3159.2
25744.8	52.5°	19753.8	10962.2	3889.0	3312.1	3293.3	3418.1	3324.5	3231.0	3115.6	2990.8
27887.4	55°	21020.0	11015.2	3661.3	3124.9	3190.4	3177.9	3143.6	3059.4	2997.1	2831.8
30001.8	57.5°	22435.9	11121.3	3474.2	3012.7	3124.9	2987.7	2975.2	2903.5	2822.4	2710.1
32581.0	60°	24129.3	11286.6	3312.1	2969.0	3068.8	2863.0	2800.6	2772.5	2691.4	2635.3
35684.1	62.5°	25975.6	11436.3	3146.8	2975.2	3003.3	2741.3	2647.8	2638.4	2588.5	2569.8
38597.0	65°	27235.6	11027.7	2940.9	2969.0	2900.4	2616.6	2498.1	2495.0	2454.4	2448.2
39860.0	67.5°	26795.8	9733.4	2663.4	2881.7	2794.3	2491.8	2360.9	2348.4	2295.4	2298.5
38540.8	70°	24594.0	7887.2	2279.8	2666.5	2663.4	2379.6	2217.4	2176.8	2105.1	2117.6
33510.4	72.5°	20464.9	5844.4	1765.2	2307.8	2454.4	2276.6	2052.1	1986.6	1896.2	1908.6
24737.5	75°	14779.5	3973.2	1284.9	1755.8	2136.3	2155.0	1889.9	1777.7	1668.5	1687.2
13769.0	77.5°	7562.8	2251.7	945.0	1210.1	1677.9	1958.5	1743.3	1593.7	1568.7	1743.3
3970.1	80°	2466.9	1129.0	654.9	848.3	1100.9	1603.0	1528.2	1356.6	1350.4	1390.9
832.7	82.5°	736.0	477.2	421.0	558.2	608.1	1228.8	1319.2	1026.1	882.6	929.4
277.6	85°	252.6	230.8	240.1	277.6	290.0	720.4	923.1	679.9	642.5	707.9
62.4	87.5°	59.3	81.1	68.6	62.4	62.4	174.6	358.6	283.8	393.0	262.0
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>
7088.8
5604.3
5092.8
5161.4
5336.1
5485.8
5570.0
5557.5
5420.3
5189.5
4940.0
4712.3
4522.1
4437.9
4319.4
4107.3
3717.5
3502.3
3452.4
3312.1
3149.9
2965.9
2834.9
2672.7
2650.9
2569.8
2445.1
2298.5
2130.1
1905.5
1693.5
1718.4
1194.5
960.6
698.6
252.6
0.0

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