

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: P955791

Luminaire Tested: **GALN-SB8C-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57812 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

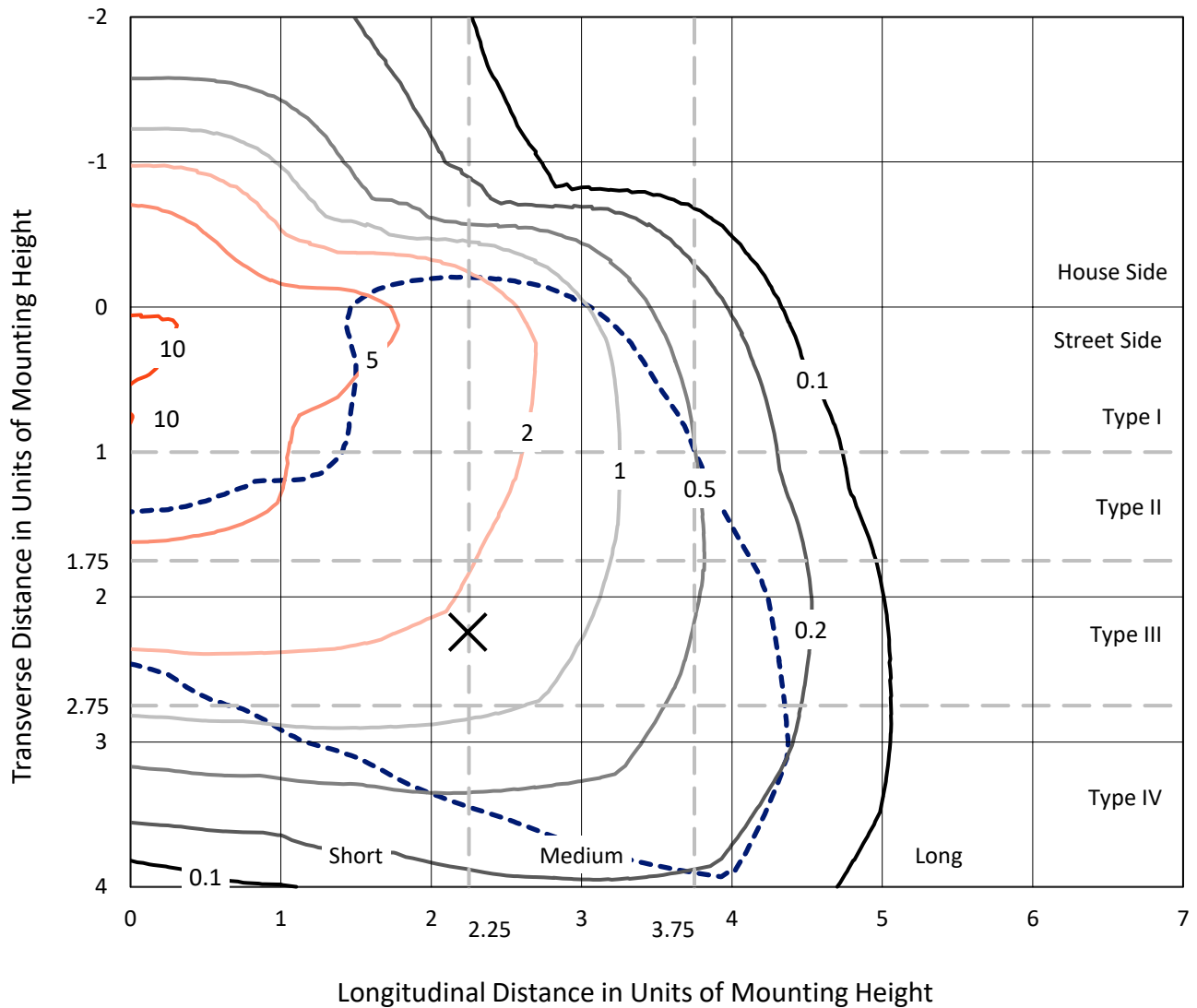
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

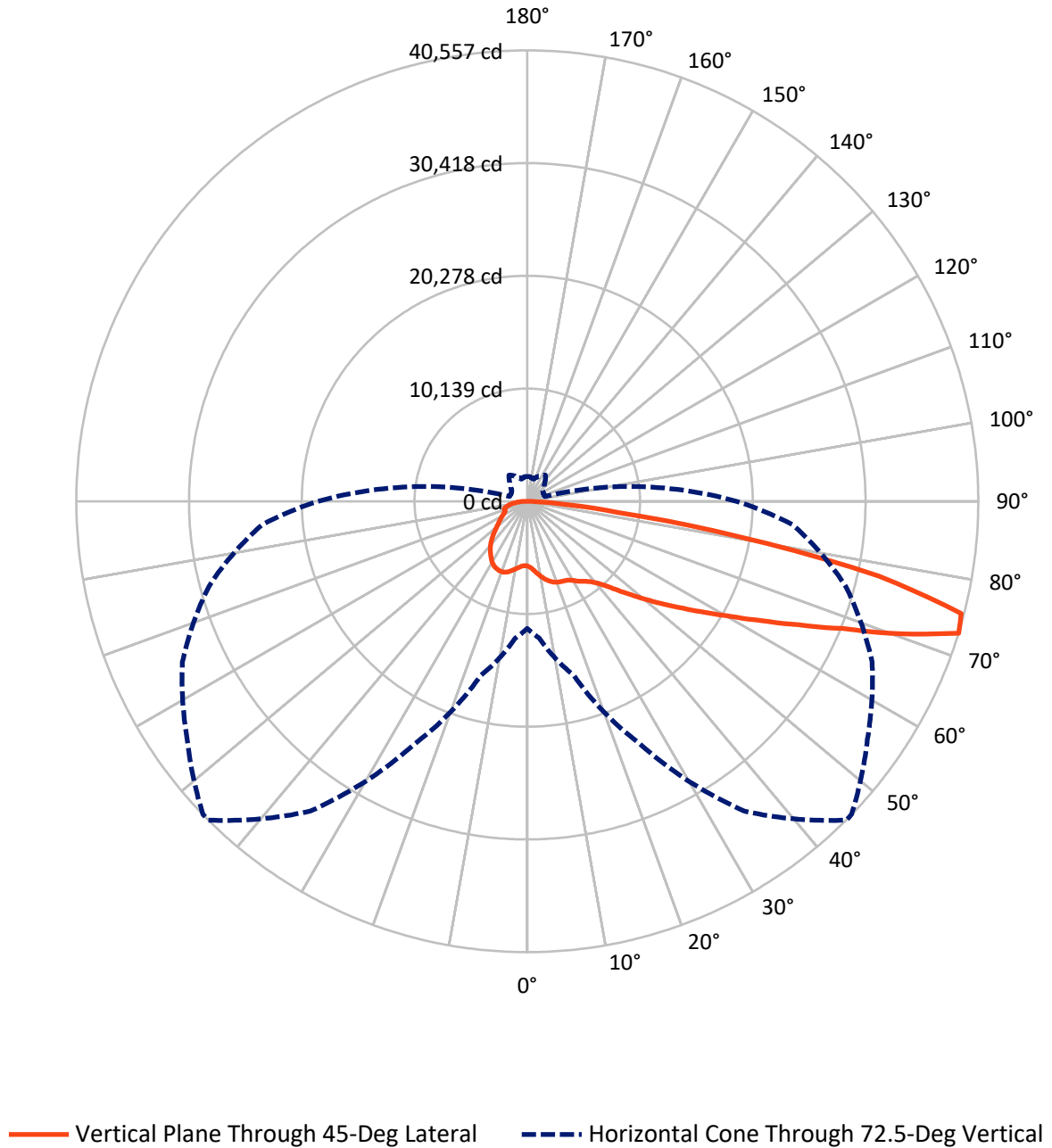
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13069.3	0.0	13069.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	44742.7	0.0	44742.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	57812.0	0.0	57812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.6	1.0
10°-20°	1979.1	3.4
20°-30°	3442.8	6.0
30°-40°	4935.4	8.5
40°-50°	6949.4	12.0
50°-60°	10644.4	18.4
60°-70°	15420.0	26.7
70°-80°	12313.8	21.3
80°-90°	1533.6	2.7
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°	57812.0	100.0
0°-180°	57812.0	100.0



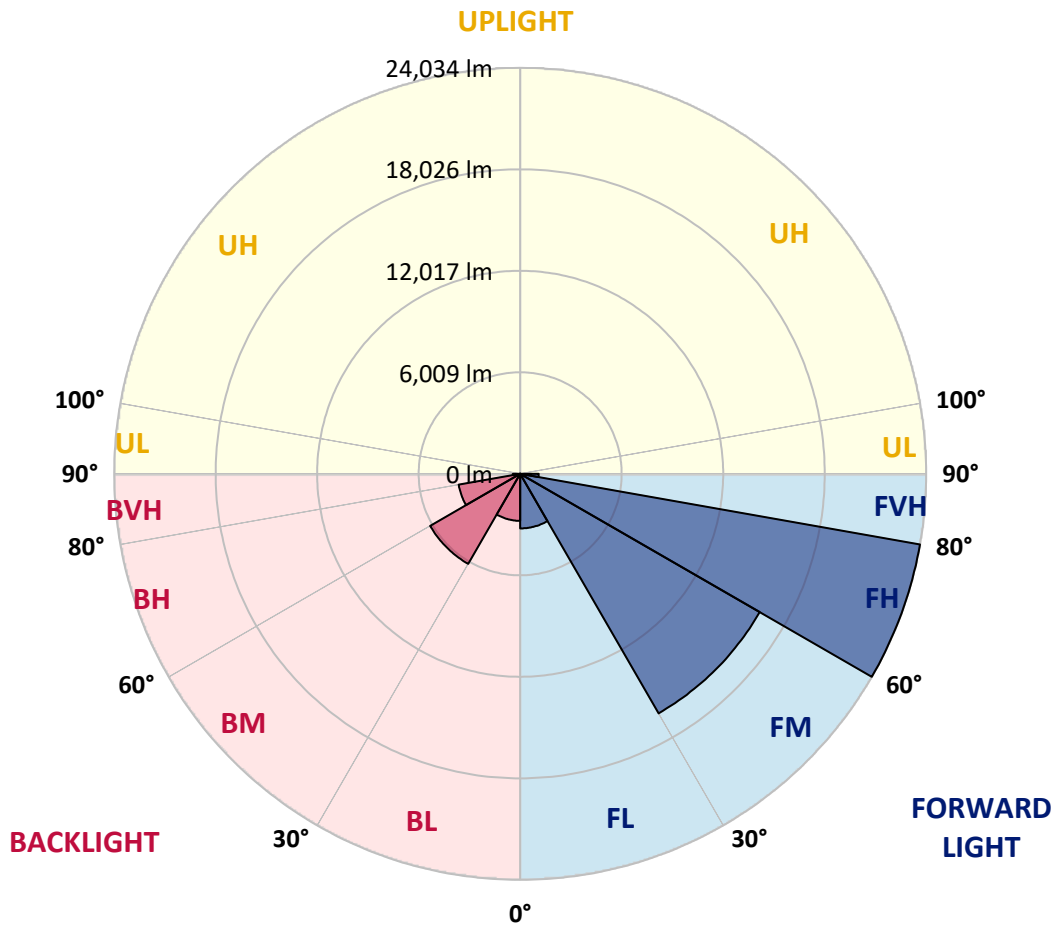
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3232.9	5.6			
FM (30°-60°)	16375.4	28.3			
FH (60°-80°)	24034.1	41.6			G5
FVH (80°-90°)	1100.2	1.9			G5
BL (0°-30°)	2782.6	4.8	B4/5000		
BM (30°-60°)	6153.8	10.6	B4/8500		
BH (60°-80°)	3699.6	6.4	B4/5000		G4/5000
BVH (80°-90°)	433.4	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1
2.5°	6060.5	6100.1	6063.6	6030.1	6014.8	5975.2	5972.2	5947.8	5932.6	5890.0
5°	6483.8	6535.6	6474.7	6407.7	6346.8	6249.3	6237.2	6167.1	6087.9	5996.6
7.5°	6962.0	7007.7	6937.6	6837.1	6730.5	6569.1	6566.1	6438.2	6313.3	6158.0
10°	7379.2	7440.1	7345.7	7208.7	7074.7	6891.9	6870.6	6724.4	6566.1	6365.1
12.5°	7747.7	7790.4	7699.0	7531.5	7376.2	7193.4	7166.0	7004.6	6828.0	6599.6
15°	8040.1	8094.9	7973.1	7793.4	7628.9	7449.3	7424.9	7278.7	7102.1	6861.5
17.5°	8231.9	8277.6	8152.8	7951.8	7793.4	7644.2	7625.9	7504.1	7348.8	7105.1
20°	8305.0	8353.8	8222.8	8018.8	7872.6	7756.9	7747.7	7659.4	7552.8	7330.5
22.5°	8378.1	8423.8	8253.3	8040.1	7912.2	7839.1	7836.0	7778.2	7735.5	7552.8
25°	8673.5	8685.7	8457.3	8149.7	7967.0	7903.0	7900.0	7896.9	7915.2	7772.1
27.5°	8929.4	8926.3	8731.4	8442.1	8158.9	8024.9	8021.8	8052.3	8110.1	7991.4
30°	9304.0	9270.5	9039.0	8737.5	8478.6	8271.5	8253.3	8225.9	8271.5	8177.1
32.5°	10098.8	9992.2	9617.6	9081.6	8743.6	8585.2	8560.9	8390.3	8408.6	8350.7
35°	11237.8	11097.8	10598.3	9733.4	9072.5	8847.1	8835.0	8618.7	8582.2	8530.4
37.5°	12593.1	12419.5	11837.8	10677.5	9639.0	9151.7	9133.4	8938.5	8789.3	8734.5
40°	13954.4	13735.1	13254.0	11828.7	10473.4	9660.3	9602.4	9307.0	9136.5	9045.1
42.5°	15276.2	15093.4	14682.3	13120.0	11502.8	10403.4	10275.5	9769.9	9642.0	9556.7
45°	16445.6	16281.2	15979.7	14499.6	12708.8	11414.5	11289.6	10464.3	10424.7	10424.7
47.5°	17395.8	17359.3	17039.5	15906.6	14131.1	12565.7	12349.4	11429.7	11536.3	11700.8
50°	18449.6	18349.1	18008.0	17292.3	15803.0	13884.4	13707.7	12614.4	13013.4	13464.1
52.5°	19418.0	19472.8	19092.2	18735.8	17691.2	15355.3	15044.7	14012.3	14874.2	15620.3
55°	20413.9	20416.9	20310.3	20261.6	19670.8	16981.6	16640.5	15693.4	17063.9	17989.7
57.5°	21348.9	21354.9	21513.3	21942.7	21967.1	18857.6	18470.9	17758.2	19497.2	20441.3
60°	22183.3	22226.0	22658.4	23663.4	23986.2	21007.8	20642.3	20197.7	22012.8	22963.0
62.5°	22463.5	22618.8	23581.2	25009.5	25981.0	23645.2	23285.8	23020.8	24656.3	25539.4
65°	21988.4	22344.7	24205.5	26121.1	28033.7	26779.0	26422.6	26133.3	27403.3	28234.7
67.5°	20822.0	21281.9	24169.0	27287.6	30524.9	30549.3	30217.3	29538.2	30348.3	30668.0
70°	17749.1	18437.4	22040.2	27723.1	33384.6	35705.3	35385.5	33637.4	33287.2	31740.1
72.5°	11435.8	12361.6	16229.4	24138.5	34021.1	40556.7	40538.5	37337.7	34216.0	29656.9
75°	4172.3	4738.8	7540.6	15151.3	28557.5	40310.1	40428.8	36704.2	31234.5	22908.1
77.5°	1519.7	1662.8	2460.8	5823.0	17563.3	32343.1	32589.7	29343.3	22232.0	11496.7
80°	797.9	877.1	1260.8	2259.8	7525.4	19207.9	19594.7	17438.5	10449.1	3462.7
82.5°	441.6	478.1	706.6	1227.3	3389.6	8213.7	8445.1	6888.9	3675.9	1467.9
85°	237.5	252.8	332.0	670.0	1656.7	2847.5	2911.5	2058.7	1464.9	861.9
87.5°	70.0	85.3	109.6	213.2	648.7	639.6	654.8	408.1	578.6	435.5
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°
5832.1	0°	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1	5832.1
5877.8	2.5°	5859.5	5850.4	5816.9	5801.7	5783.4	5780.3	5795.6	5798.6	5801.7	5804.7
5944.8	5°	5914.3	5883.9	5853.4	5835.2	5841.2	5844.3	5874.7	5896.1	5911.3	5923.5
6069.7	7.5°	6020.9	5996.6	5944.8	5941.7	5950.9	5978.3	6017.9	6066.6	6094.0	6115.3
6231.1	10°	6179.3	6133.6	6072.7	6081.8	6100.1	6139.7	6221.9	6261.5	6307.2	6346.8
6429.0	12.5°	6340.7	6301.1	6231.1	6237.2	6267.6	6337.7	6416.8	6465.6	6496.0	6526.5
6642.2	15°	6550.8	6480.8	6404.7	6404.7	6459.5	6535.6	6572.2	6611.7	6630.0	6663.5
6870.6	17.5°	6767.1	6675.7	6575.2	6569.1	6636.1	6672.7	6694.0	6700.1	6706.2	6742.7
7092.9	20°	6983.3	6882.8	6739.7	6727.5	6742.7	6736.6	6733.6	6727.5	6736.6	6782.3
7321.3	22.5°	7196.5	7080.8	6882.8	6828.0	6785.3	6727.5	6724.4	6721.4	6727.5	6773.2
7568.0	25°	7446.2	7306.1	7041.2	6876.7	6733.6	6654.4	6663.5	6666.6	6672.7	6709.2
7823.9	27.5°	7717.3	7561.9	7187.3	6861.5	6602.6	6547.8	6532.6	6541.7	6563.0	6620.9
8079.7	30°	7988.3	7805.6	7321.3	6800.6	6438.2	6362.0	6313.3	6334.6	6401.6	6459.5
8302.0	32.5°	8235.0	8052.3	7427.9	6666.6	6228.0	6109.2	6045.3	6072.7	6139.7	6161.0
8548.7	35°	8524.3	8317.2	7473.6	6453.4	5999.6	5816.9	5731.6	5692.0	5725.5	5704.2
8838.0	37.5°	8847.1	8630.9	7467.5	6173.2	5731.6	5521.5	5402.7	5253.5	5183.4	5110.3
9264.4	40°	9325.3	9014.6	7394.4	5835.2	5399.6	5207.8	4994.6	4741.8	4583.5	4440.3
9952.6	42.5°	9977.0	9547.6	7260.4	5463.6	5025.1	4845.4	4556.0	4260.6	4010.9	3773.4
10997.2	45°	10948.5	10245.0	7092.9	5067.7	4620.0	4443.4	4129.7	3797.7	3514.5	3209.9
12480.4	47.5°	12349.4	11183.0	6934.6	4617.0	4193.6	4032.2	3749.0	3441.4	3106.4	2811.0
14624.4	50°	14274.2	12529.1	6788.4	4178.4	3773.4	3651.5	3426.2	3112.5	2774.4	2536.9
17136.9	52.5°	16722.8	14359.5	6727.5	3755.1	3380.5	3334.8	3155.1	2862.8	2543.0	2342.0
20066.7	55°	19533.7	16549.2	6727.5	3350.0	3036.3	3051.6	2926.7	2655.7	2378.5	2198.8
23087.8	57.5°	22402.6	18766.3	6605.7	2975.4	2744.0	2807.9	2728.8	2491.2	2241.5	2055.7
26264.3	60°	25046.1	20624.0	6112.3	2634.3	2485.1	2585.6	2533.8	2329.8	2025.2	1869.9
28919.9	62.5°	27077.4	21671.7	5162.1	2363.3	2271.9	2387.7	2360.3	2116.6	1985.7	1921.7
31100.5	65°	28094.6	21501.1	3946.9	2122.7	2092.2	2271.9	2214.1	2204.9	2101.4	2028.3
31810.1	67.5°	27470.3	20033.2	2862.8	1946.1	1988.7	2165.3	2387.7	2424.2	2232.3	2089.2
29812.3	70°	24732.4	17377.5	2131.8	1778.6	1857.7	2168.4	2722.7	2536.9	2189.7	2022.2
23910.1	72.5°	18815.0	12958.5	1653.7	1601.9	1687.2	2183.6	2871.9	2485.1	2067.9	2235.4
14895.5	75°	10759.7	7114.3	1327.8	1385.7	1474.0	2040.5	2795.8	2351.1	1973.5	2052.7
5902.2	77.5°	4102.3	2734.8	1096.4	1172.5	1184.7	1781.6	2673.9	2342.0	1879.1	1833.4
1769.4	80°	1422.2	1069.0	907.6	931.9	916.7	1583.7	2564.3	2037.4	1538.0	1376.6
730.9	82.5°	581.7	533.0	718.7	688.3	651.7	1230.4	2070.9	1665.9	1257.8	1111.6
353.3	85°	252.8	338.0	475.1	417.2	377.6	852.7	1659.8	1410.1	1062.9	916.7
115.7	87.5°	51.8	127.9	201.0	188.8	194.9	569.5	1178.6	1002.0	752.2	563.4
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°
5832.1
5816.9
5929.6
6121.4
6337.7
6538.7
6675.7
6754.9
6800.6
6803.6
6757.9
6678.8
6523.4
6237.2
5771.2
5156.0
4449.5
3752.0
3173.4
2777.5
2521.7
2326.8
2180.6
2025.2
1845.6
1900.4
2003.9
2064.8
1994.8
2217.1
2052.7
1672.0
1330.9
1099.4
913.6
441.6
0.0

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