

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: P954825

Luminaire Tested: **GALN-SB7D-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954825
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-SB7D-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50245 lumens
Efficiency: N/A
Efficacy: 98.0 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

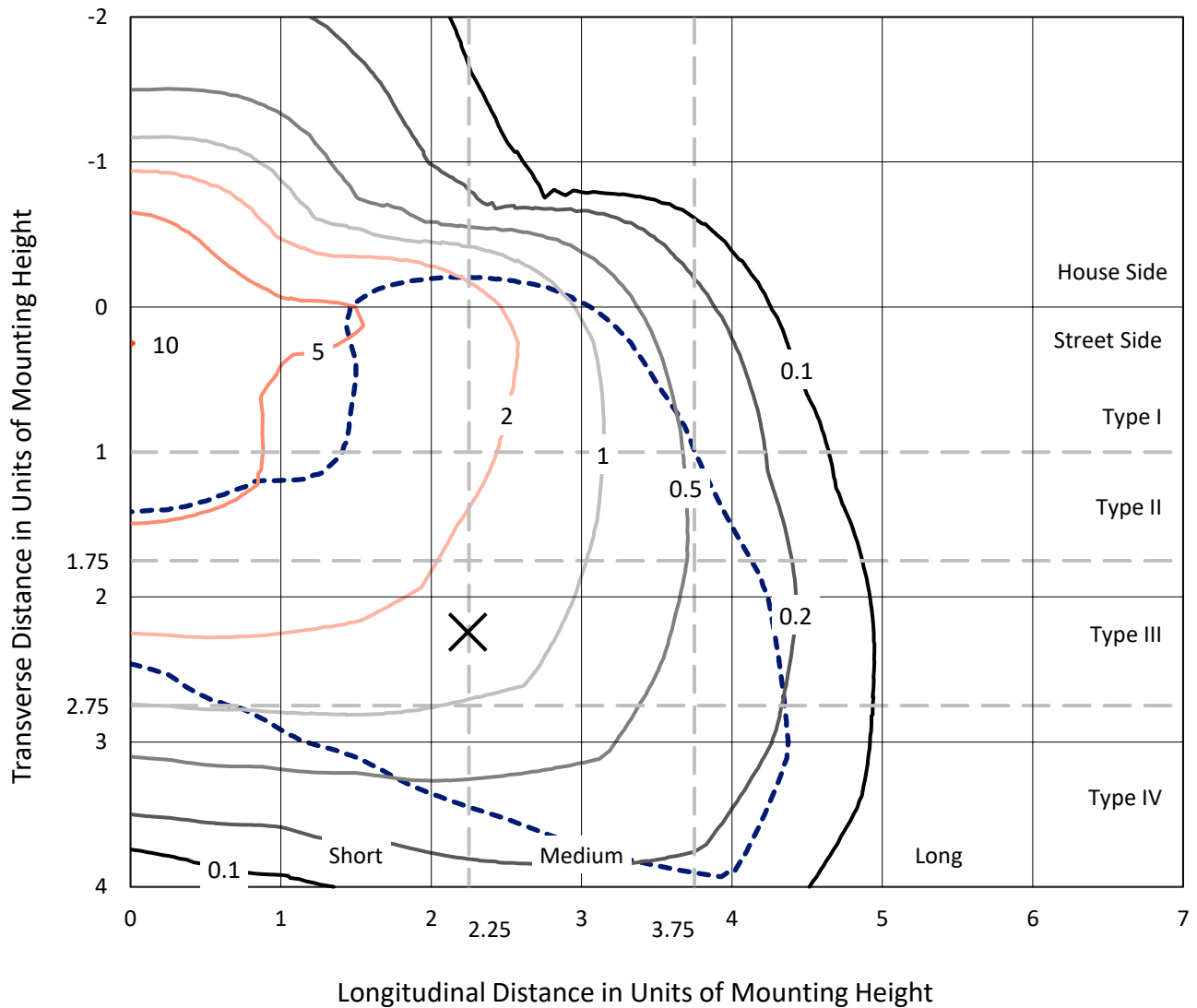
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

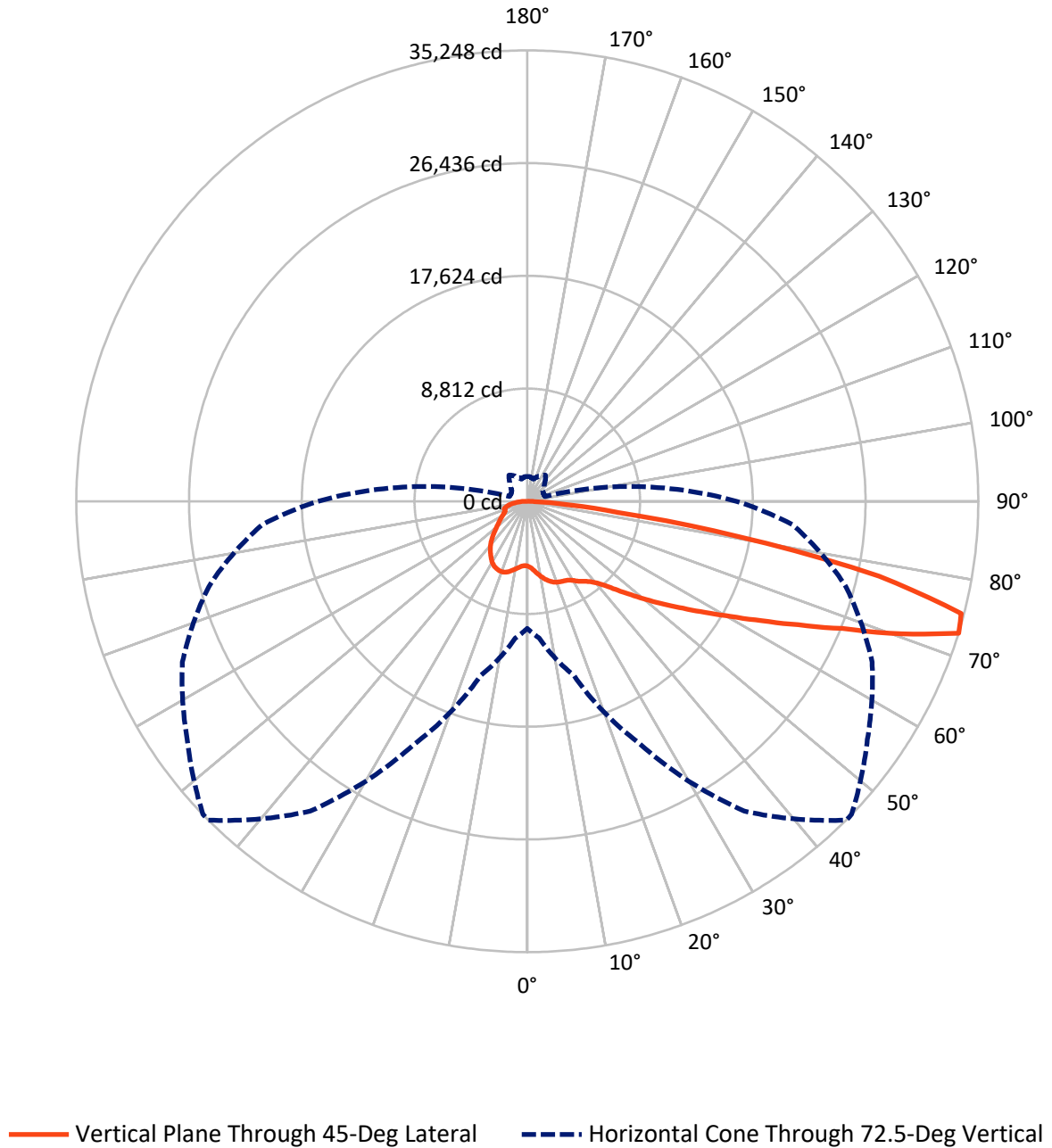
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	11358.7	0.0	11358.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	38886.3	0.0	38886.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	50245.0	0.0	50245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.9	1.0
10°-20°	1720.1	3.4
20°-30°	2992.2	6.0
30°-40°	4289.4	8.5
40°-50°	6039.8	12.0
50°-60°	9251.1	18.4
60°-70°	13401.6	26.7
70°-80°	10702.0	21.3
80°-90°	1332.9	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°	50245.0	100.0
0°-180°	50245.0	100.0

Coefficient of Utilization



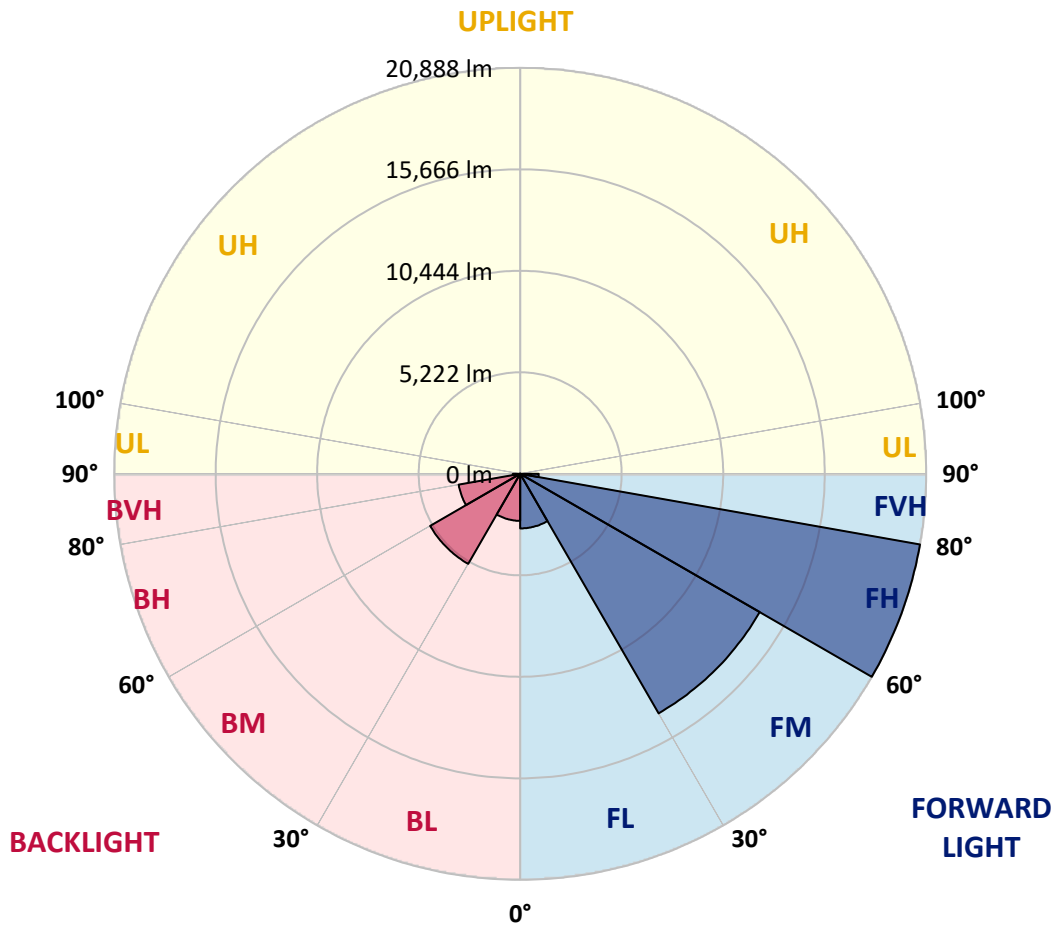
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2809.8	5.6			
FM (30°-60°)	14232.0	28.3			
FH (60°-80°)	20888.3	41.6			G5
FVH (80°-90°)	956.2	1.9			G5
BL (0°-30°)	2418.4	4.8	B3/2500		
BM (30°-60°)	5348.3	10.6	B4/8500		
BH (60°-80°)	3215.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	376.7	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°	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7
2.5°	5267.3	5301.7	5269.9	5240.8	5227.6	5193.1	5190.5	5169.3	5156.1	5119.0
5°	5635.2	5680.2	5627.2	5569.0	5516.1	5431.4	5420.8	5359.9	5291.1	5211.7
7.5°	6050.7	6090.4	6029.6	5942.2	5849.6	5709.3	5706.6	5595.5	5486.9	5352.0
10°	6413.3	6466.3	6384.2	6265.1	6148.7	5989.9	5971.3	5844.3	5706.6	5531.9
12.5°	6733.6	6770.7	6691.3	6545.7	6410.7	6251.9	6228.1	6087.8	5934.3	5735.8
15°	6987.7	7035.4	6929.5	6773.3	6630.4	6474.2	6453.1	6326.0	6172.5	5963.4
17.5°	7154.5	7194.2	7085.7	6911.0	6773.3	6643.6	6627.7	6521.9	6386.9	6175.1
20°	7218.0	7260.3	7146.5	6969.2	6842.1	6741.6	6733.6	6656.9	6564.2	6371.0
22.5°	7281.5	7321.2	7173.0	6987.7	6876.5	6813.0	6810.4	6760.1	6723.0	6564.2
25°	7538.3	7548.9	7350.3	7083.0	6924.2	6868.6	6866.0	6863.3	6879.2	6754.8
27.5°	7760.6	7758.0	7588.6	7337.1	7090.9	6974.5	6971.8	6998.3	7048.6	6945.4
30°	8086.2	8057.1	7855.9	7593.8	7368.9	7188.9	7173.0	7149.2	7188.9	7106.8
32.5°	8777.0	8684.4	8358.8	7892.9	7599.1	7461.5	7440.3	7292.1	7308.0	7257.7
35°	9766.9	9645.2	9211.1	8459.4	7885.0	7689.1	7678.5	7490.6	7458.9	7413.9
37.5°	10944.8	10793.9	10288.4	9279.9	8377.3	7953.8	7937.9	7768.5	7638.8	7591.2
40°	12127.9	11937.4	11519.1	10280.4	9102.6	8395.8	8345.6	8088.8	7940.6	7861.2
42.5°	13276.7	13117.9	12760.5	11402.7	9997.2	9041.7	8930.5	8491.1	8380.0	8305.9
45°	14293.1	14150.1	13888.1	12601.7	11045.4	9920.4	9811.9	9094.6	9060.2	9060.2
47.5°	15118.9	15087.1	14809.2	13824.6	12281.4	10921.0	10733.0	9933.7	10026.3	10169.2
50°	16034.7	15947.3	15650.9	15028.9	13734.6	12067.0	11913.5	10963.3	11310.0	11701.8
52.5°	16876.4	16924.0	16593.2	16283.5	15375.6	13345.5	13075.5	12178.2	12927.3	13575.8
55°	17741.9	17744.6	17651.9	17609.6	17096.1	14758.9	14462.5	13639.3	14830.4	15635.0
57.5°	18554.5	18559.8	18697.4	19070.6	19091.8	16389.4	16053.2	15433.9	16945.2	17765.7
60°	19279.7	19316.8	19692.7	20566.1	20846.7	18258.1	17940.4	17554.0	19131.5	19957.3
62.5°	19523.3	19658.3	20494.7	21736.0	22580.4	20550.2	20237.9	20007.6	21429.0	22196.6
65°	19110.4	19420.0	21037.3	22702.1	24364.4	23273.9	22964.2	22712.7	23816.5	24539.1
67.5°	18096.6	18496.3	21005.5	23715.9	26529.5	26550.7	26262.2	25671.9	26376.0	26653.9
70°	15425.9	16024.1	19155.3	24094.4	29014.9	31031.8	30753.9	29234.6	28930.2	27585.6
72.5°	9939.0	10743.6	14105.1	20979.0	29568.1	35248.3	35232.4	32450.5	29737.5	25775.2
75°	3626.2	4118.5	6553.6	13168.1	24819.6	35033.9	35137.1	31900.0	27146.2	19909.7
77.5°	1320.8	1445.2	2138.7	5060.8	15264.5	28109.7	28324.1	25502.5	19322.1	9991.9
80°	693.5	762.3	1095.8	1964.0	6540.4	16693.8	17029.9	15155.9	9081.4	3009.5
82.5°	383.8	415.6	614.1	1066.7	2946.0	7138.6	7339.8	5987.2	3194.8	1275.8
85°	206.5	219.7	288.5	582.3	1439.9	2474.8	2530.4	1789.3	1273.1	749.1
87.5°	60.9	74.1	95.3	185.3	563.8	555.8	569.1	354.7	502.9	378.5
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°
5068.7	0°	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7	5068.7
5108.4	2.5°	5092.6	5084.6	5055.5	5042.3	5026.4	5023.7	5037.0	5039.6	5042.3	5044.9
5166.7	5°	5140.2	5113.7	5087.3	5071.4	5076.7	5079.3	5105.8	5124.3	5137.6	5148.1
5275.2	7.5°	5232.8	5211.7	5166.7	5164.0	5172.0	5195.8	5230.2	5272.6	5296.4	5314.9
5415.5	10°	5370.5	5330.8	5277.8	5285.8	5301.7	5336.1	5407.5	5442.0	5481.7	5516.1
5587.5	12.5°	5510.8	5476.4	5415.5	5420.8	5447.2	5508.1	5576.9	5619.3	5645.8	5672.2
5772.8	15°	5693.4	5632.5	5566.4	5566.4	5614.0	5680.2	5711.9	5746.3	5762.2	5791.3
5971.3	17.5°	5881.3	5801.9	5714.6	5709.3	5767.5	5799.3	5817.8	5823.1	5828.4	5860.2
6164.5	20°	6069.3	5981.9	5857.5	5846.9	5860.2	5854.9	5852.2	5846.9	5854.9	5894.6
6363.1	22.5°	6254.5	6154.0	5981.9	5934.3	5897.2	5846.9	5844.3	5841.6	5846.9	5886.6
6577.5	25°	6471.6	6349.8	6119.5	5976.6	5852.2	5783.4	5791.3	5794.0	5799.3	5831.0
6799.8	27.5°	6707.2	6572.2	6246.6	5963.4	5738.4	5690.8	5677.5	5685.5	5704.0	5754.3
7022.1	30°	6942.7	6783.9	6363.1	5910.4	5595.5	5529.3	5486.9	5505.5	5563.7	5614.0
7215.3	32.5°	7157.1	6998.3	6455.7	5794.0	5412.8	5309.6	5254.0	5277.8	5336.1	5354.6
7429.7	35°	7408.6	7228.6	6495.4	5608.7	5214.3	5055.5	4981.4	4947.0	4976.1	4957.6
7681.2	37.5°	7689.1	7501.2	6490.1	5365.2	4981.4	4798.8	4695.5	4565.8	4505.0	4441.4
8051.8	40°	8104.7	7834.7	6426.6	5071.4	4692.9	4526.1	4340.9	4121.2	3983.5	3859.1
8649.9	42.5°	8671.1	8297.9	6310.1	4748.5	4367.3	4211.2	3959.7	3703.0	3485.9	3279.5
9557.8	45°	9515.5	8904.0	6164.5	4404.4	4015.3	3861.8	3589.1	3300.6	3054.5	2789.8
10846.8	47.5°	10733.0	9719.3	6026.9	4012.6	3644.7	3504.4	3258.3	2991.0	2699.8	2443.1
12710.2	50°	12405.8	10889.2	5899.9	3631.5	3279.5	3173.6	2977.7	2705.1	2411.3	2204.8
14893.9	52.5°	14533.9	12480.0	5846.9	3263.6	2938.0	2898.3	2742.2	2488.1	2210.1	2035.4
17440.2	55°	16977.0	14383.1	5846.9	2911.5	2638.9	2652.2	2543.6	2308.1	2067.2	1911.0
20065.9	57.5°	19470.3	16310.0	5741.0	2586.0	2384.8	2440.4	2371.6	2165.1	1948.1	1786.6
22826.5	60°	21767.8	17924.6	5312.3	2289.5	2159.8	2247.2	2202.2	2024.9	1760.2	1625.2
25134.6	62.5°	23533.3	18835.1	4486.4	2054.0	1974.6	2075.1	2051.3	1839.6	1725.8	1670.2
27029.8	65°	24417.3	18686.9	3430.3	1844.9	1818.4	1974.6	1924.3	1916.3	1826.3	1762.8
27646.5	67.5°	23874.7	17411.1	2488.1	1691.3	1728.4	1881.9	2075.1	2106.9	1940.2	1815.7
25910.1	70°	21495.2	15103.0	1852.8	1545.8	1614.6	1884.6	2366.3	2204.8	1903.1	1757.5
20780.5	72.5°	16352.3	11262.4	1437.2	1392.2	1466.4	1897.8	2496.0	2159.8	1797.2	1942.8
12945.8	75°	9351.4	6183.1	1154.0	1204.3	1281.1	1773.4	2429.8	2043.4	1715.2	1784.0
5129.6	77.5°	3565.3	2376.9	952.9	1019.0	1029.6	1548.4	2323.9	2035.4	1633.1	1593.4
1537.8	80°	1236.1	929.0	788.8	809.9	796.7	1376.4	2228.7	1770.8	1336.7	1196.4
635.2	82.5°	505.6	463.2	624.7	598.2	566.4	1069.3	1799.9	1447.8	1093.2	966.1
307.0	85°	219.7	293.8	412.9	362.6	328.2	741.1	1442.5	1225.5	923.8	796.7
100.6	87.5°	45.0	111.2	174.7	164.1	169.4	495.0	1024.3	870.8	653.8	489.7
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°
5068.7
5055.5
5153.4
5320.2
5508.1
5682.8
5801.9
5870.7
5910.4
5913.1
5873.4
5804.6
5669.6
5420.8
5015.8
4481.1
3867.1
3260.9
2758.0
2413.9
2191.6
2022.2
1895.2
1760.2
1604.0
1651.6
1741.6
1794.6
1733.7
1926.9
1784.0
1453.1
1156.7
955.5
794.1
383.8
0.0

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