

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: P956148

Luminaire Tested: **GALN-SB8D-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956148
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-SB8D-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 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: 78554 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 IV - Short
BUG Rating: B5 - U0 - G5

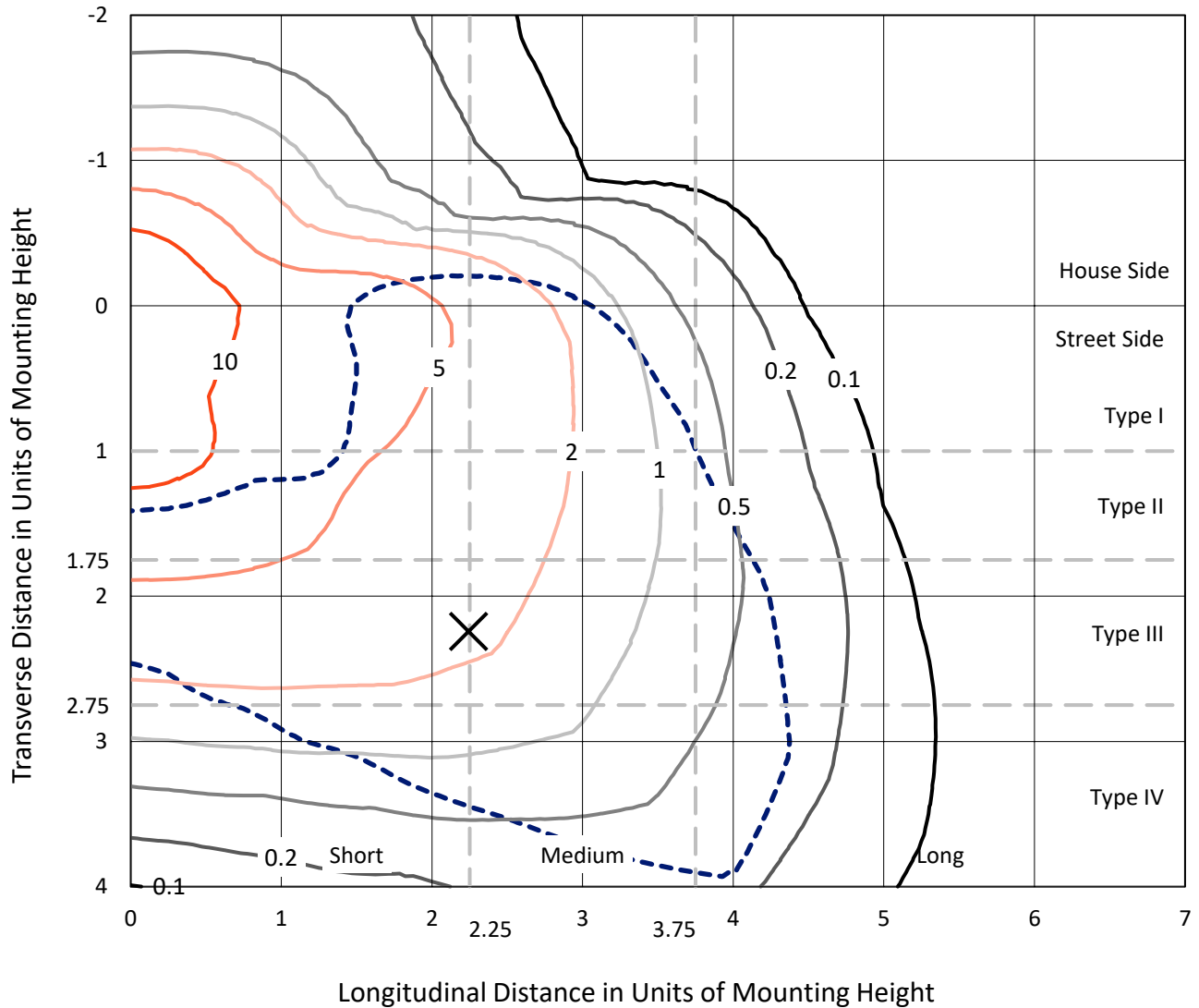
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

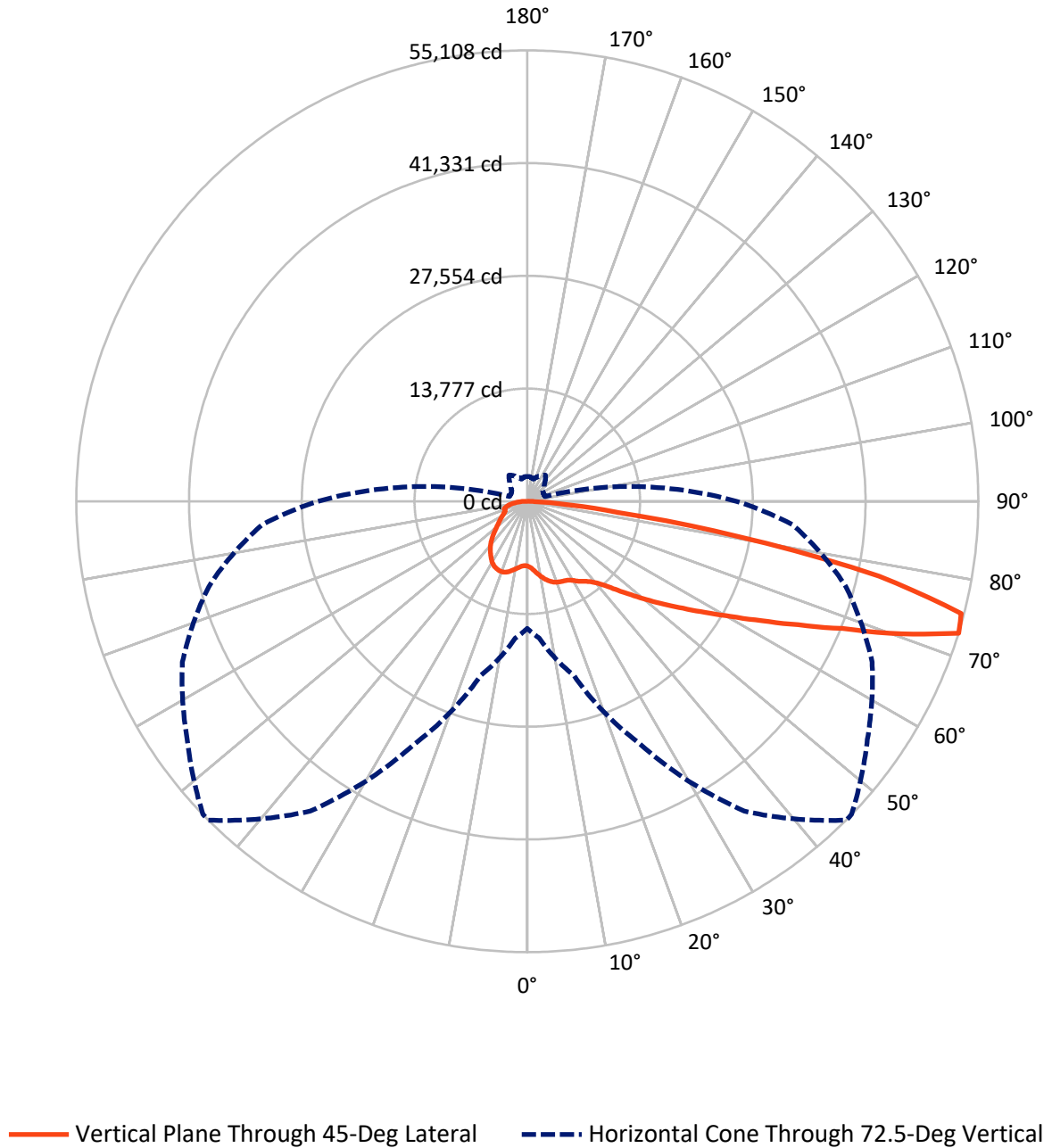
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	17758.4	0.0	17758.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	60795.6	0.0	60795.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	78554.0	0.0	78554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.6	1.0
10°-20°	2689.2	3.4
20°-30°	4678.0	6.0
30°-40°	6706.2	8.5
40°-50°	9442.7	12.0
50°-60°	14463.4	18.4
60°-70°	20952.4	26.7
70°-80°	16731.7	21.3
80°-90°	2083.9	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°	78554.0	100.0
0°-180°	78554.0	100.0



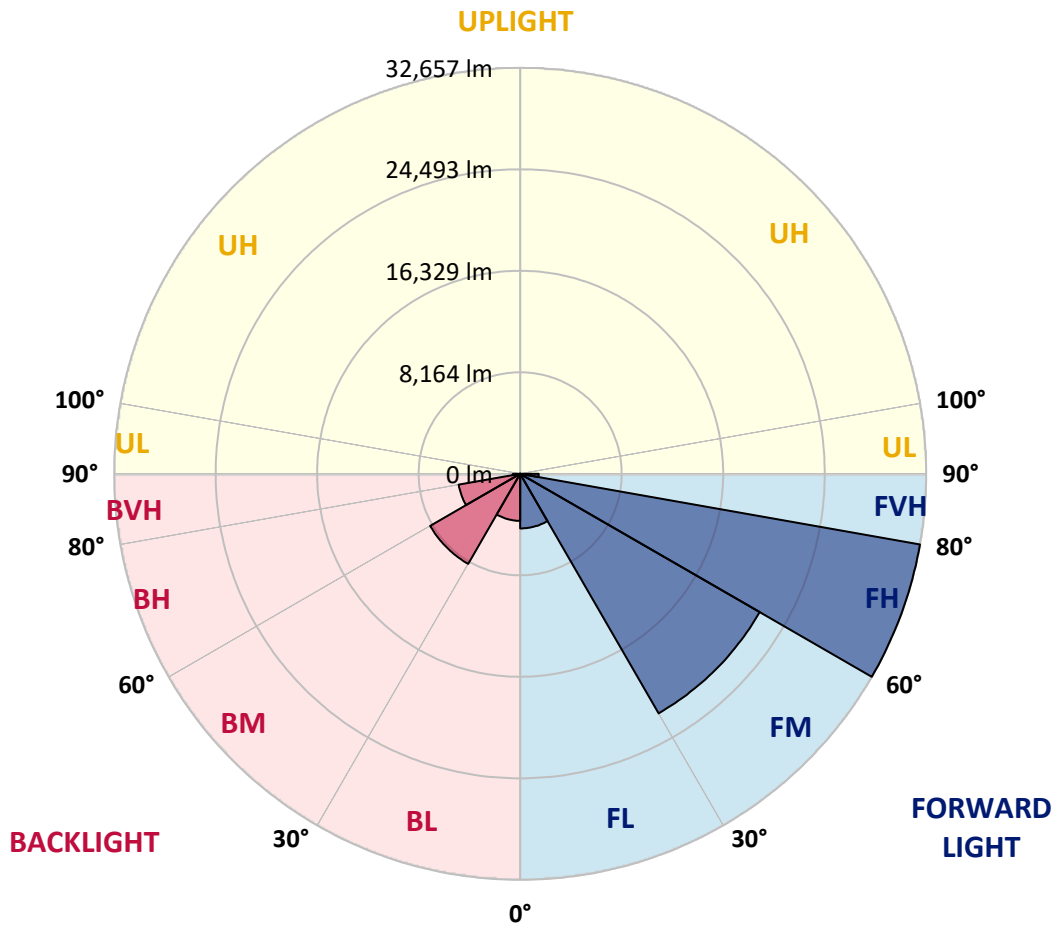
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4392.9	5.6			
FM (30°-60°)	22250.6	28.3			
FH (60°-80°)	32657.2	41.6			G5
FVH (80°-90°)	1495.0	1.9			G5
BL (0°-30°)	3780.9	4.8	B4/5000		
BM (30°-60°)	8361.7	10.6	B4/8500		
BH (60°-80°)	5026.9	6.4	B5		G5
BVH (80°-90°)	588.9	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6
2.5°	8234.9	8288.7	8239.1	8193.5	8172.9	8119.1	8114.9	8081.8	8061.1	8003.2
5°	8810.1	8880.5	8797.7	8706.7	8623.9	8491.5	8474.9	8379.8	8272.2	8148.0
7.5°	9459.8	9521.9	9426.7	9290.2	9145.3	8926.0	8921.9	8748.1	8578.4	8367.4
10°	10026.8	10109.5	9981.2	9795.0	9612.9	9364.6	9335.7	9137.0	8921.9	8648.7
12.5°	10527.5	10585.4	10461.3	10233.7	10022.6	9774.3	9737.1	9517.8	9277.7	8967.4
15°	10924.7	10999.2	10833.7	10589.5	10366.1	10121.9	10088.8	9890.2	9650.2	9323.3
17.5°	11185.4	11247.5	11077.8	10804.7	10589.5	10386.8	10361.9	10196.4	9985.4	9654.3
20°	11284.8	11351.0	11173.0	10895.8	10697.1	10539.9	10527.5	10407.5	10262.6	9960.5
22.5°	11384.1	11446.1	11214.4	10924.7	10750.9	10651.6	10647.5	10568.9	10510.9	10262.6
25°	11785.5	11802.0	11491.7	11073.7	10825.4	10738.5	10734.4	10730.2	10755.1	10560.6
27.5°	12133.1	12128.9	11864.1	11471.0	11086.1	10904.0	10899.9	10941.3	11019.9	10858.5
30°	12642.1	12596.5	12282.0	11872.4	11520.6	11239.2	11214.4	11177.2	11239.2	11111.0
32.5°	13722.1	13577.3	13068.3	12340.0	11880.6	11665.5	11632.4	11400.6	11425.5	11346.8
35°	15269.8	15079.4	14400.8	13225.5	12327.6	12021.3	12004.8	11711.0	11661.3	11591.0
37.5°	17111.3	16875.4	16085.0	14508.4	13097.3	12435.2	12410.3	12145.5	11942.7	11868.2
40°	18961.0	18663.1	18009.3	16072.6	14231.1	13126.2	13047.6	12646.2	12414.5	12290.3
42.5°	20757.0	20508.7	19950.1	17827.2	15629.8	14135.9	13962.1	13275.2	13101.4	12985.5
45°	22346.0	22122.6	21712.9	19701.8	17268.5	15509.8	15340.1	14218.7	14164.9	14164.9
47.5°	23637.1	23587.5	23153.0	21613.6	19201.0	17074.0	16780.2	15530.5	15675.3	15898.8
50°	25069.0	24932.4	24468.9	23496.5	21472.9	18865.9	18625.8	17140.2	17682.3	18294.8
52.5°	26384.9	26459.4	25942.1	25457.9	24038.6	20864.6	20442.5	19039.7	20210.8	21224.6
55°	27738.1	27742.2	27597.4	27531.2	26728.4	23074.4	22610.9	21323.9	23186.1	24444.1
57.5°	29008.5	29016.8	29231.9	29815.4	29848.5	25623.5	25097.9	24129.6	26492.5	27775.3
60°	30142.3	30200.3	30787.9	32153.5	32592.1	28545.0	28048.4	27444.3	29910.6	31201.7
62.5°	30523.0	30734.1	32041.7	33982.5	35302.6	32128.6	31640.3	31280.3	33502.5	34702.6
65°	29877.5	30361.7	32890.1	35493.0	38091.7	36386.8	35902.6	35509.5	37235.1	38364.8
67.5°	28292.6	28917.4	32840.4	37077.9	41476.7	41509.8	41058.8	40136.0	41236.7	41671.2
70°	24117.2	25052.4	29947.8	37669.6	45362.5	48515.7	48081.2	45705.9	45230.1	43127.9
72.5°	15538.8	16796.8	22052.2	32799.0	46227.3	55107.8	55083.0	50733.8	46492.2	40297.4
75°	5669.3	6439.0	10246.1	20587.3	38803.5	54772.6	54934.0	49873.1	42440.9	31127.2
77.5°	2064.9	2259.4	3343.6	7912.2	23864.7	43947.2	44282.4	39871.1	30208.5	15621.5
80°	1084.2	1191.8	1713.2	3070.5	10225.4	26099.4	26624.9	23695.1	14198.0	4705.1
82.5°	600.0	649.7	960.1	1667.7	4605.8	11160.6	11475.1	9360.5	4994.8	1994.6
85°	322.8	343.5	451.1	910.4	2251.2	3869.2	3956.1	2797.4	1990.5	1171.1
87.5°	95.2	115.9	149.0	289.7	881.4	869.0	889.7	554.5	786.2	591.8
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°
7924.6	0°	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6	7924.6
7986.6	2.5°	7961.8	7949.4	7903.9	7883.2	7858.4	7854.2	7874.9	7879.0	7883.2	7887.3
8077.7	5°	8036.3	7994.9	7953.5	7928.7	7937.0	7941.1	7982.5	8011.5	8032.2	8048.7
8247.3	7.5°	8181.1	8148.0	8077.7	8073.5	8086.0	8123.2	8177.0	8243.2	8280.5	8309.4
8466.7	10°	8396.3	8334.2	8251.5	8263.9	8288.7	8342.5	8454.3	8508.0	8570.1	8623.9
8735.6	12.5°	8615.6	8561.8	8466.7	8474.9	8516.3	8611.5	8719.1	8785.3	8826.7	8868.1
9025.3	15°	8901.2	8806.0	8702.5	8702.5	8777.0	8880.5	8930.1	8983.9	9008.8	9054.3
9335.7	17.5°	9195.0	9070.8	8934.3	8926.0	9017.0	9066.7	9095.7	9103.9	9112.2	9161.9
9637.8	20°	9488.8	9352.2	9157.7	9141.2	9161.9	9153.6	9149.5	9141.2	9153.6	9215.7
9948.1	22.5°	9778.5	9621.2	9352.2	9277.7	9219.8	9141.2	9137.0	9132.9	9141.2	9203.3
10283.3	25°	10117.8	9927.4	9567.4	9344.0	9149.5	9041.9	9054.3	9058.4	9066.7	9116.4
10630.9	27.5°	10486.1	10275.0	9766.0	9323.3	8971.5	8897.0	8876.3	8888.8	8917.7	8996.4
10978.5	30°	10854.4	10606.1	9948.1	9240.5	8748.1	8644.6	8578.4	8607.4	8698.4	8777.0
11280.6	32.5°	11189.6	10941.3	10093.0	9058.4	8462.5	8301.1	8214.2	8251.5	8342.5	8371.5
11615.8	35°	11582.7	11301.3	10155.0	8768.8	8152.2	7903.9	7788.0	7734.2	7779.7	7750.8
12008.9	37.5°	12021.3	11727.5	10146.8	8388.0	7788.0	7502.5	7341.1	7138.3	7043.1	6943.8
12588.3	40°	12671.0	12248.9	10047.4	7928.7	7337.0	7076.2	6786.6	6443.1	6227.9	6033.4
13523.5	42.5°	13556.6	12973.1	9865.4	7423.9	6828.0	6583.8	6190.7	5789.3	5450.0	5127.2
14942.9	45°	14876.7	13920.8	9637.8	6885.9	6277.6	6037.6	5611.3	5160.3	4775.4	4361.6
16958.2	47.5°	16780.2	15195.3	9422.6	6273.4	5698.2	5478.9	5094.1	4676.1	4220.9	3819.5
19871.4	50°	19395.5	17024.4	9224.0	5677.6	5127.2	4961.6	4655.4	4229.2	3769.9	3447.1
23285.4	52.5°	22722.6	19511.4	9141.2	5102.3	4593.4	4531.3	4287.1	3889.9	3455.4	3182.2
27266.3	55°	26542.1	22486.7	9141.2	4552.0	4125.7	4146.4	3976.8	3608.5	3231.9	2987.7
31371.4	57.5°	30440.3	25499.3	8975.7	4043.0	3728.5	3815.4	3707.8	3385.0	3045.7	2793.3
35687.5	60°	34032.2	28023.6	8305.3	3579.5	3376.7	3513.3	3442.9	3165.7	2751.9	2540.8
39295.9	62.5°	36792.3	29447.1	7014.2	3211.2	3087.1	3244.3	3207.1	2876.0	2698.1	2611.2
42258.9	65°	38174.5	29215.4	5363.1	2884.3	2842.9	3087.1	3008.4	2996.0	2855.3	2756.0
43223.0	67.5°	37326.2	27220.8	3889.9	2644.3	2702.2	2942.2	3244.3	3294.0	3033.3	2838.8
40508.4	70°	33606.0	23612.3	2896.7	2416.7	2524.3	2946.4	3699.5	3447.1	2975.3	2747.7
32488.7	72.5°	25565.5	17607.9	2247.0	2176.7	2292.5	2967.1	3902.3	3376.7	2809.8	3037.4
20239.7	75°	14620.1	9666.7	1804.2	1882.9	2002.9	2772.6	3798.8	3194.7	2681.5	2789.1
8019.7	77.5°	5574.1	3716.1	1489.7	1593.2	1609.7	2420.8	3633.3	3182.2	2553.2	2491.2
2404.3	80°	1932.5	1452.5	1233.2	1266.3	1245.6	2151.8	3484.3	2768.4	2089.8	1870.4
993.2	82.5°	790.4	724.2	976.6	935.2	885.6	1671.8	2813.9	2263.6	1709.1	1510.4
480.0	85°	343.5	459.3	645.6	566.9	513.1	1158.7	2255.3	1916.0	1444.2	1245.6
157.2	87.5°	70.3	173.8	273.1	256.6	264.8	773.8	1601.5	1361.5	1022.1	765.6
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°
7924.6
7903.9
8057.0
8317.7
8611.5
8884.6
9070.8
9178.4
9240.5
9244.6
9182.6
9075.0
8863.9
8474.9
7841.8
7005.9
6045.8
5098.2
4312.0
3774.0
3426.4
3161.6
2962.9
2751.9
2507.7
2582.2
2722.9
2805.7
2710.5
3012.6
2789.1
2271.8
1808.4
1493.9
1241.4
600.0
0.0

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