

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: P943927

Luminaire Tested: **GALN-SB8C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57964 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

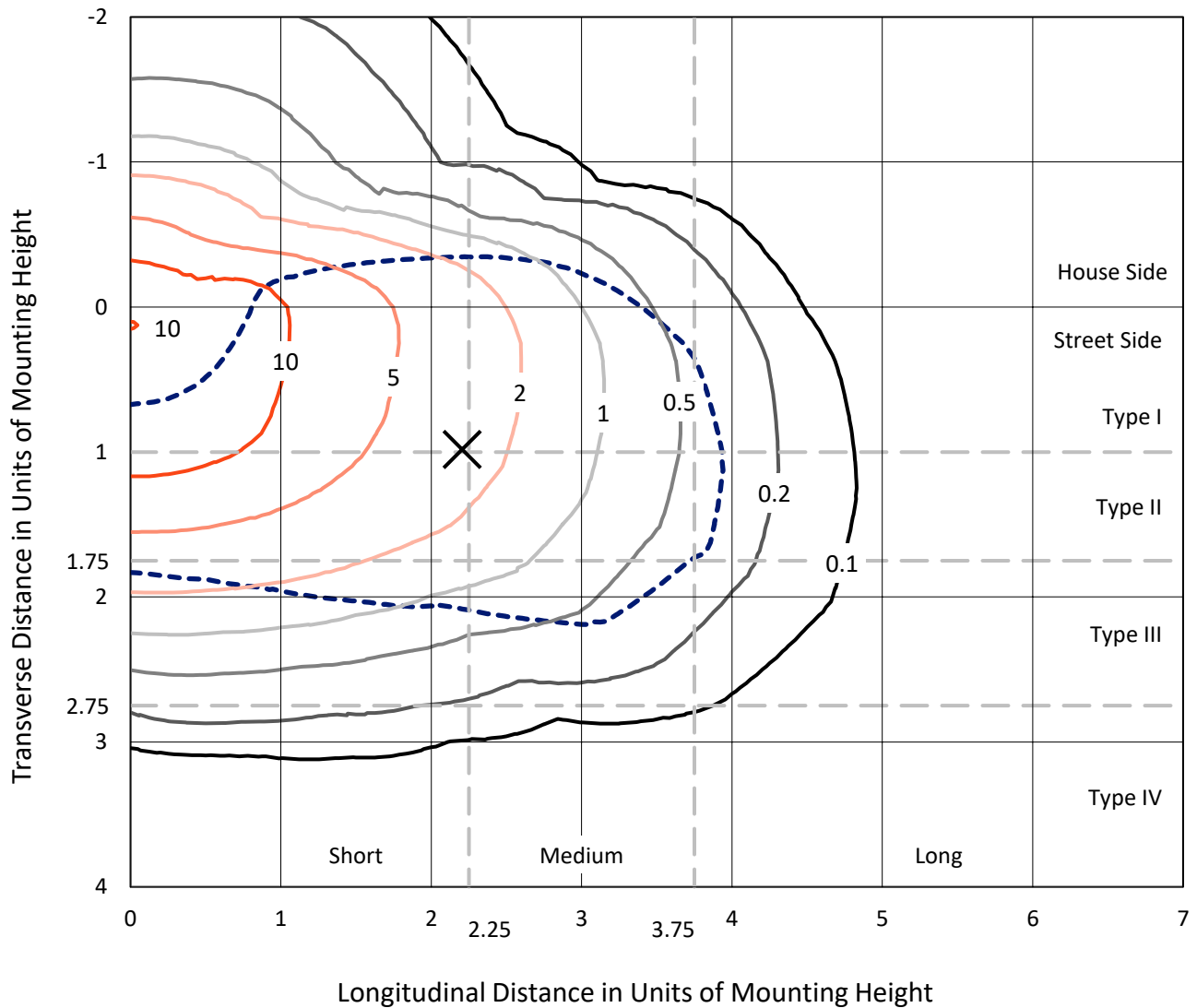
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

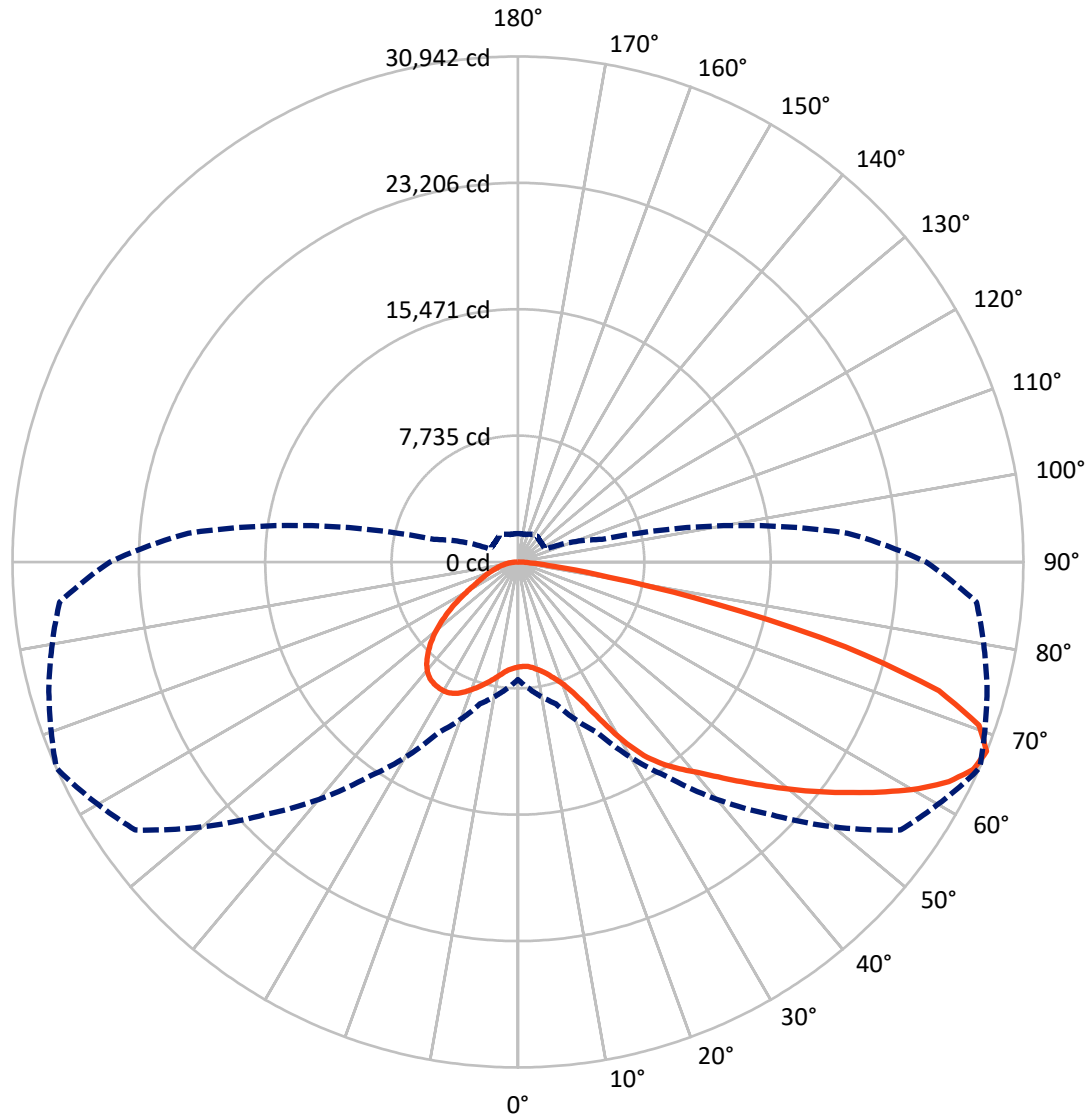
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14412.6	0.0	14412.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	43551.4	0.0	43551.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	57964.0	0.0	57964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.4	1.1
10°-20°	2105.9	3.6
20°-30°	4059.0	7.0
30°-40°	7117.0	12.3
40°-50°	10580.6	18.3
50°-60°	13411.9	23.1
60°-70°	13123.2	22.6
70°-80°	6259.9	10.8
80°-90°	669.0	1.2
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°	57964.0	100.0
0°-180°	57964.0	100.0

Coefficient of Utilization



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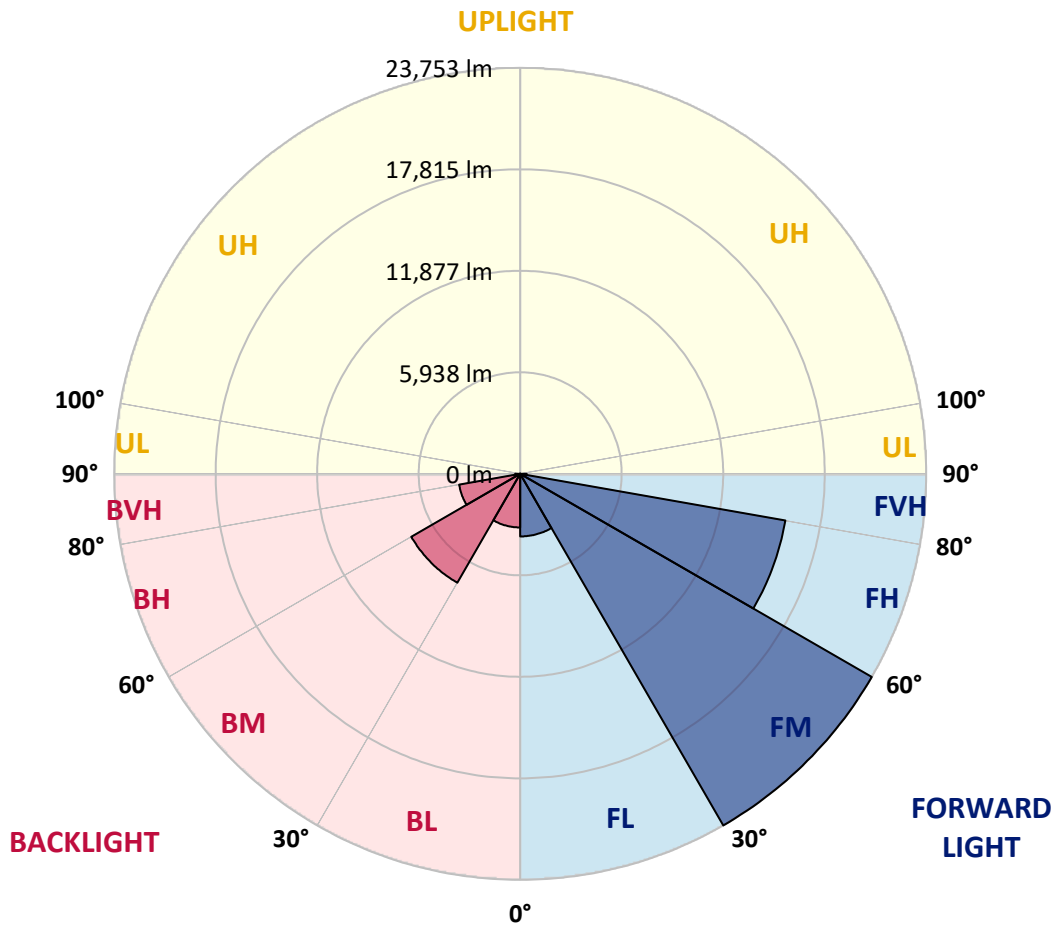
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3662.8	6.3			
FM (30°-60°)	23753.2	41.0			
FH (60°-80°)	15756.2	27.2			G5
FVH (80°-90°)	379.3	0.7			G3/500
BL (0°-30°)	3139.6	5.4	B4/5000		
BM (30°-60°)	7356.3	12.7	B4/8500		
BH (60°-80°)	3627.0	6.3	B4/5000		G4/5000
BVH (80°-90°)	289.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0
2.5°	6362.0	6398.5	6389.4	6374.2	6371.1	6377.2	6386.3	6395.5	6392.4	6407.7
5°	6343.7	6380.2	6377.2	6377.2	6389.4	6413.7	6429.0	6444.2	6429.0	6447.2
7.5°	6355.9	6383.3	6395.5	6407.7	6438.1	6483.8	6520.3	6553.8	6535.6	6556.9
10°	6511.2	6532.5	6544.7	6544.7	6566.0	6617.8	6654.3	6715.2	6700.0	6733.5
12.5°	6794.4	6815.7	6815.7	6803.6	6818.8	6852.3	6864.5	6931.5	6904.1	6958.9
15°	7141.6	7184.2	7150.7	7129.4	7135.5	7169.0	7166.0	7217.7	7190.3	7236.0
17.5°	7525.3	7580.2	7525.3	7522.3	7510.1	7546.7	7549.7	7595.4	7546.7	7580.2
20°	7979.1	8055.3	8009.6	8024.8	7997.4	8012.6	8027.8	8094.8	8018.7	8043.1
22.5°	8618.7	8710.0	8661.3	8719.2	8700.9	8688.7	8685.7	8804.4	8685.7	8694.8
25°	9550.6	9660.2	9574.9	9654.1	9654.1	9693.7	9739.4	9891.7	9693.7	9635.8
27.5°	10927.1	11036.8	10869.3	10918.0	10902.8	11000.2	10951.5	11329.1	11115.9	11021.5
30°	12583.9	12778.8	12462.0	12449.9	12434.6	12589.9	12660.0	12909.7	12693.5	12599.1
32.5°	14374.6	14578.6	14201.0	14091.4	14033.5	14127.9	14070.0	14271.0	14121.8	13975.6
35°	16268.9	16469.9	16110.5	15897.3	15665.9	15467.9	15260.8	15312.6	15172.5	14950.2
37.5°	18059.6	18428.1	18047.4	17819.0	17392.6	17005.9	16427.2	16186.6	16055.7	15851.6
40°	19883.8	20094.0	19804.6	19609.7	19146.8	18540.8	17615.0	17106.4	16929.7	16731.8
42.5°	21226.9	21427.9	21272.6	21138.6	20776.2	20072.7	18875.8	18239.3	17983.5	17761.1
45°	22292.8	22442.0	22344.6	22393.3	22238.0	21555.8	20182.3	19454.4	19189.5	18918.4
47.5°	22722.2	22880.6	23035.9	23325.2	23590.2	23087.7	21586.2	20770.1	20489.9	20212.7
50°	22673.5	22834.9	23285.6	23900.8	24723.1	24555.6	23066.3	22171.0	21912.1	21595.4
52.5°	22283.7	22466.4	23045.0	24068.3	25377.8	25655.0	24573.8	23617.6	23373.9	22996.3
55°	21260.4	21370.0	22238.0	23687.6	25533.2	26422.4	26050.9	25158.6	24914.9	24388.1
57.5°	19363.1	19521.4	20785.3	22661.3	25143.3	26943.2	27348.3	26778.8	26544.3	25785.9
60°	16887.1	17139.9	18586.5	20937.6	24150.5	26940.2	28526.9	28371.5	28176.6	27162.5
62.5°	14085.3	14377.6	15769.4	18501.2	22414.6	26175.8	29263.9	29705.5	29605.0	28432.4
65°	10817.5	11018.5	12404.2	15349.1	19713.3	24534.3	29349.1	30616.0	30634.3	29397.9
67.5°	7202.5	7781.2	8984.1	11517.9	16095.3	21851.2	28599.9	30765.3	30941.9	29729.8
70°	3514.5	4275.8	5454.4	7485.7	11517.9	17736.8	26641.7	29541.0	29933.9	28761.4
72.5°	1458.8	1705.5	2348.1	3694.1	6611.7	11968.7	22707.0	26221.4	26949.3	25484.4
75°	983.7	1065.9	1343.0	1894.3	3012.0	5902.1	16375.5	19551.9	20724.4	19247.3
77.5°	758.3	810.1	977.6	1324.8	1790.7	2232.3	8764.8	11782.9	12388.9	11469.2
80°	596.9	636.5	730.9	965.4	1270.0	1193.8	2987.6	5338.7	5688.9	4772.2
82.5°	517.7	533.0	523.8	654.8	843.6	697.4	980.6	1970.4	2174.5	1577.6
85°	374.6	417.2	435.5	405.0	447.7	353.3	402.0	697.4	767.5	685.2
87.5°	152.3	225.4	277.1	261.9	164.5	100.5	124.9	204.0	234.5	255.8
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°
6429.0	0°	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0	6429.0
6432.0	2.5°	6435.1	6456.4	6471.6	6489.9	6502.1	6520.3	6556.9	6578.2	6581.2	6596.5
6480.7	5°	6492.9	6523.4	6556.9	6605.6	6660.4	6706.1	6776.2	6824.9	6843.2	6858.4
6599.5	7.5°	6617.8	6660.4	6721.3	6806.6	6885.8	6946.7	7032.0	7089.8	7147.7	7169.0
6788.3	10°	6803.6	6864.5	6952.8	7068.5	7153.8	7233.0	7321.3	7370.0	7427.9	7452.2
7013.7	12.5°	7035.0	7099.0	7214.7	7376.1	7455.3	7510.1	7540.6	7528.4	7540.6	7561.9
7284.7	15°	7300.0	7370.0	7501.0	7674.6	7729.4	7680.7	7613.7	7552.7	7543.6	7549.7
7613.7	17.5°	7613.7	7665.4	7817.7	7963.9	7924.3	7723.3	7577.1	7479.7	7430.9	7415.7
8033.9	20°	8052.2	8052.2	8177.1	8268.4	8003.5	7662.4	7434.0	7275.6	7175.1	7132.5
8606.5	22.5°	8585.2	8536.4	8615.6	8551.7	7988.3	7491.8	7175.1	6901.0	6748.7	6687.8
9407.4	25°	9261.3	9203.4	9182.1	8786.2	7878.6	7220.8	6706.1	6374.2	6240.2	6206.7
10561.7	27.5°	10281.5	10135.3	9858.2	8914.1	7677.6	6794.4	6157.9	5850.3	5774.2	5777.2
12044.8	30°	11639.8	11347.4	10668.3	8935.4	7348.7	6191.4	5597.6	5378.3	5341.7	5357.0
13290.4	32.5°	12897.5	12620.4	11496.6	8837.9	6843.2	5600.6	5095.1	4948.9	4894.1	4912.3
14240.6	35°	13884.3	13808.1	12264.1	8700.9	6221.9	5046.3	4644.3	4519.5	4412.9	4388.5
15136.0	37.5°	14816.2	14785.7	12839.7	8509.0	5606.7	4653.5	4281.9	4117.5	3962.1	3876.9
16125.7	40°	15839.5	15809.0	13217.3	8213.6	5061.6	4312.4	3956.1	3739.8	3548.0	3392.6
17246.5	42.5°	16990.6	16811.0	13397.0	7790.3	4598.7	4023.1	3691.1	3398.7	3146.0	3002.8
18513.4	45°	18248.4	17843.4	13393.9	7251.2	4208.8	3758.1	3407.9	2993.7	2759.2	2625.2
19813.8	47.5°	19582.3	18830.1	13229.5	6654.3	3831.2	3465.7	2969.3	2652.6	2497.3	2415.1
21226.9	50°	20958.9	19752.9	12949.3	5969.1	3444.4	3133.8	2695.2	2479.0	2360.2	2284.1
22627.8	52.5°	22253.2	20590.4	12611.3	5192.5	3051.6	2811.0	2573.4	2405.9	2281.1	2195.8
23986.1	55°	23456.2	21312.2	12133.1	4397.6	2731.8	2594.7	2515.6	2375.5	2232.3	2131.8
25365.7	57.5°	24525.1	21781.2	11307.8	3651.5	2503.4	2445.5	2454.6	2323.7	2159.2	2074.0
26723.9	60°	25414.4	22125.3	10086.6	2960.2	2317.6	2299.3	2360.2	2226.2	2034.4	1936.9
27872.1	62.5°	25947.3	22119.2	8588.2	2424.2	2159.2	2165.3	2235.4	2104.4	1909.5	1818.1
28472.0	65°	25901.7	21577.1	6943.7	2074.0	2007.0	2013.1	2104.4	1970.4	1806.0	1751.1
28170.5	67.5°	24985.0	20255.4	5326.5	1845.6	1839.5	1866.9	1973.5	1879.1	1742.0	1735.9
26373.7	70°	22502.9	17511.4	3837.3	1662.8	1665.9	1705.5	1845.6	1821.2	1708.5	1720.7
22174.0	72.5°	18044.4	13351.3	2576.5	1471.0	1474.0	1538.0	1723.7	1775.5	1675.0	1836.4
15732.9	75°	12017.4	8326.3	1656.7	1266.9	1270.0	1352.2	1617.1	1687.2	1583.6	1830.3
8186.2	77.5°	5774.2	3742.9	1199.9	1065.9	1065.9	1142.0	1397.9	1510.5	1349.1	1422.2
2631.3	80°	1994.8	1407.0	944.1	858.8	840.5	892.3	1178.6	1309.5	1163.4	1072.0
858.8	82.5°	785.7	730.9	758.3	667.0	606.0	639.5	916.7	1081.1	855.8	773.5
484.2	85°	450.7	475.1	536.0	441.6	350.2	392.9	673.0	776.6	645.6	569.5
158.4	87.5°	121.8	167.5	246.7	228.4	158.4	167.5	319.8	429.4	371.5	286.3
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°
6429.0
6593.4
6855.3
7172.1
7464.4
7568.0
7571.0
7437.0
7123.3
6678.7
6212.7
5786.4
5408.7
4936.7
4406.8
3879.9
3407.9
3012.0
2619.1
2396.8
2256.7
2159.2
2092.2
2019.1
1894.3
1790.7
1748.1
1745.1
1717.6
1860.8
1845.6
1303.5
1005.0
770.5
581.7
295.4
0.0

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