

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: P944814

Luminaire Tested: **GALN-SB9D-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49045 lumens
Efficiency: N/A
Efficacy: 74.5 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

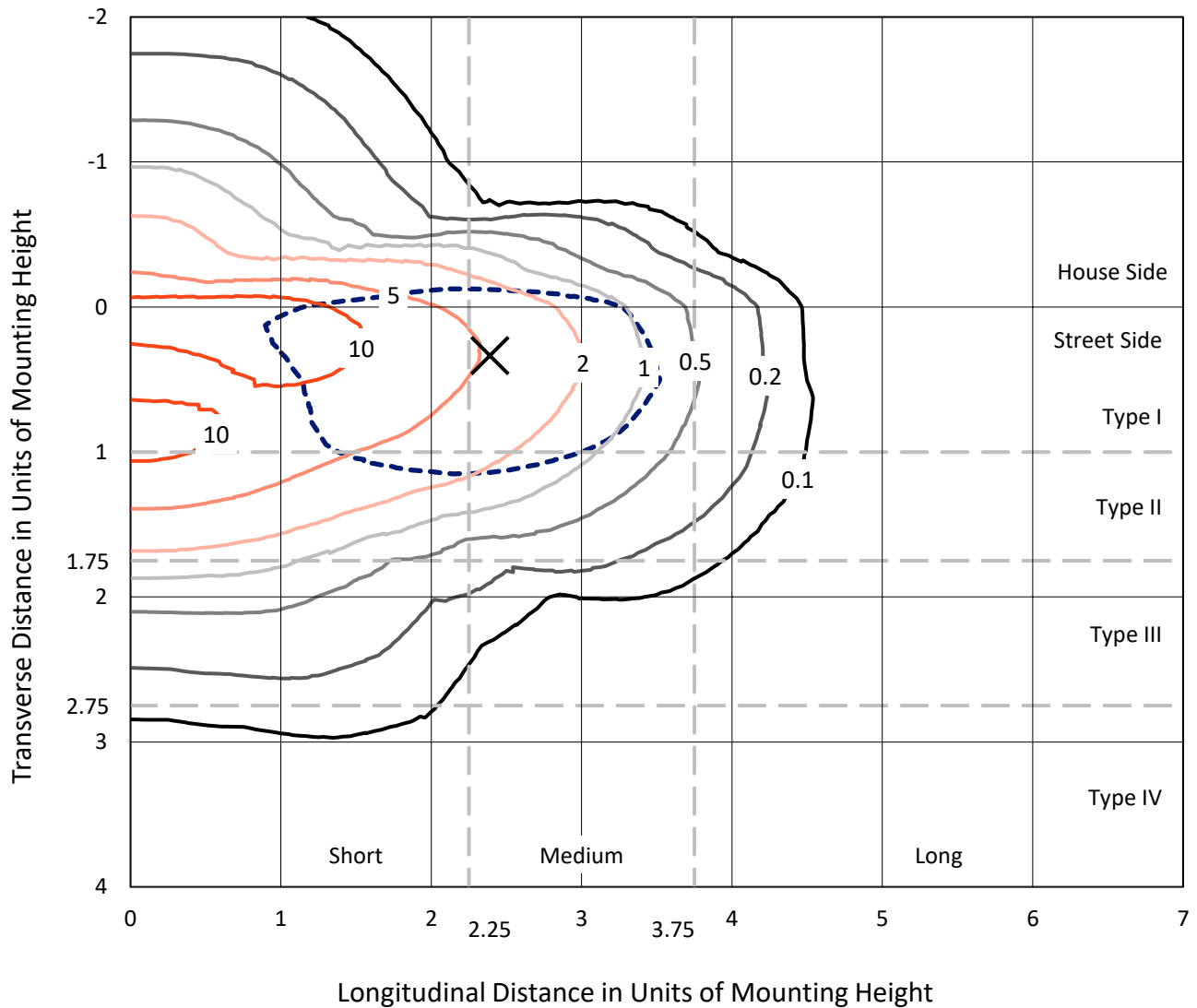
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

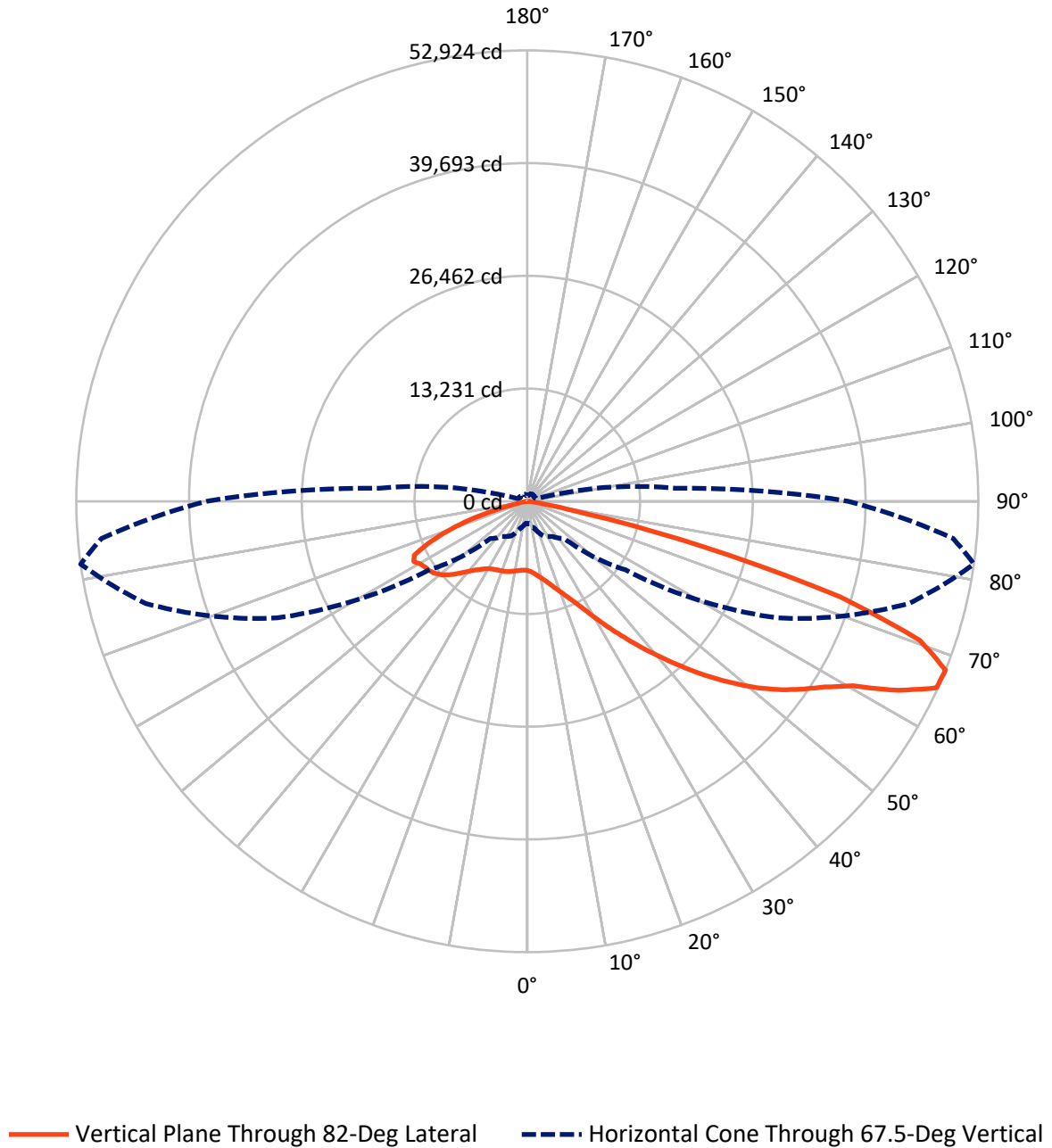
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	8884.1	0.0	8884.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40160.9	0.0	40160.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	49045.0	0.0	49045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.9	1.5
10°-20°	1881.1	3.8
20°-30°	3012.9	6.1
30°-40°	5327.7	10.9
40°-50°	9334.7	19.0
50°-60°	12449.9	25.4
60°-70°	11590.2	23.6
70°-80°	4448.3	9.1
80°-90°	276.3	0.6
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°	49045.0	100.0
0°-180°	49045.0	100.0

Coefficient of Utilization



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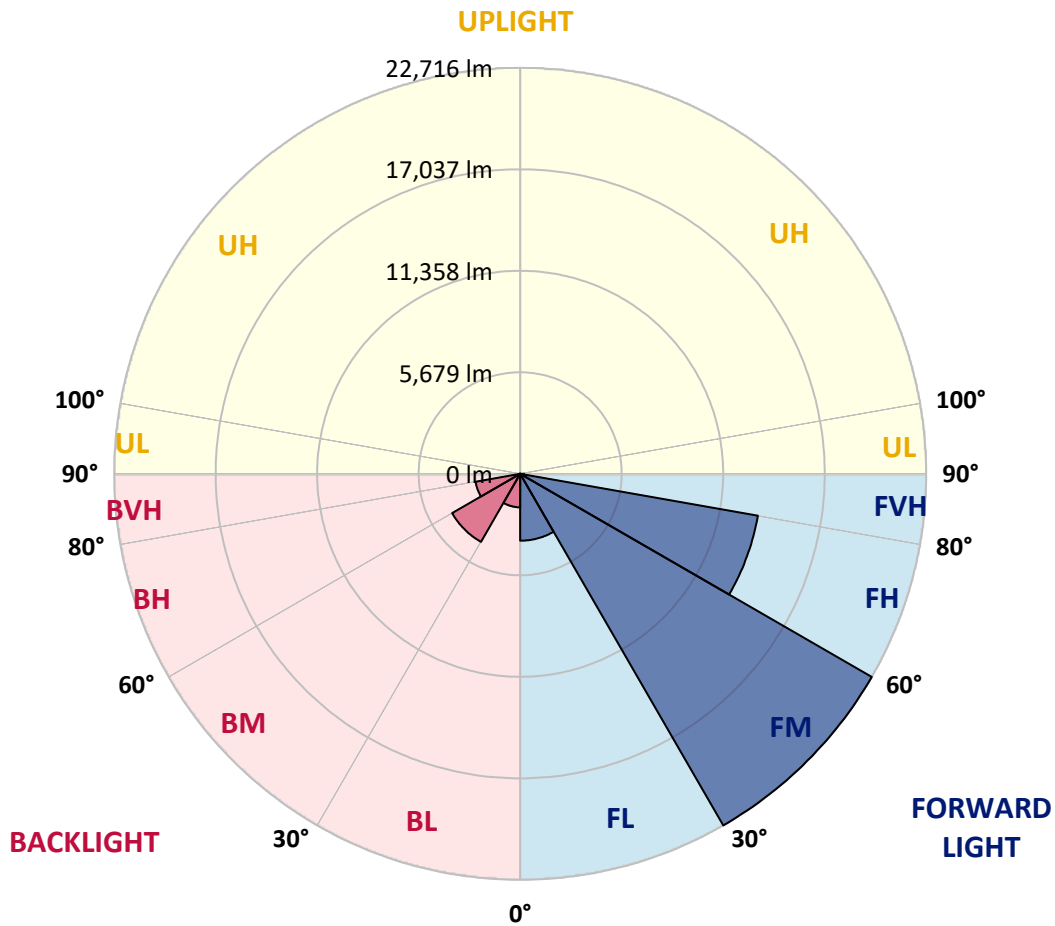
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3741.6	7.6			
FM (30°-60°)	22715.6	46.3			
FH (60°-80°)	13502.8	27.5			G5
FVH (80°-90°)	200.9	0.4			G2/225
BL (0°-30°)	1876.3	3.8	B3/2500		
BM (30°-60°)	4396.7	9.0	B3/5000		
BH (60°-80°)	2535.7	5.2	B4/5000		G4/5000
BVH (80°-90°)	75.4	0.2			G1/100
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°	82°
0°	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1
2.5°	8587.7	8637.1	8608.9	8594.7	8570.0	8534.7	8506.5	8418.2	8326.4	8266.3
5°	8760.7	8810.1	8806.6	8820.7	8838.4	8849.0	8841.9	8743.0	8612.4	8510.0
7.5°	8612.4	8668.9	8714.8	8785.4	8909.0	9039.7	9103.2	9082.0	8947.8	8806.6
10°	8192.2	8252.2	8361.7	8527.6	8788.9	9071.4	9308.0	9417.5	9332.7	9177.4
12.5°	7422.4	7482.4	7697.8	8058.0	8495.9	8986.7	9438.7	9731.8	9752.9	9597.6
15°	6557.3	6617.3	6846.8	7298.8	7966.2	8753.6	9509.3	10063.7	10250.8	10116.6
17.5°	6020.6	6073.5	6246.5	6610.2	7305.9	8287.5	9484.6	10416.8	10844.1	10738.1
20°	5858.1	5904.0	5985.2	6239.5	6818.6	7803.8	9322.1	10748.7	11483.2	11423.2
22.5°	6031.1	6073.5	6098.2	6211.2	6574.9	7486.0	9117.3	11087.7	12224.7	12231.8
25°	6430.2	6472.5	6444.3	6514.9	6673.8	7387.1	9039.7	11486.7	13156.9	13234.6
27.5°	7086.9	7090.5	7023.4	7019.9	7044.6	7535.4	9120.9	11914.0	14332.8	14477.6
30°	8404.1	8351.1	8093.3	7814.4	7687.2	7980.3	9346.9	12418.9	15720.5	15978.3
32.5°	10434.4	10356.8	9883.6	9216.2	8545.3	8697.1	9752.9	12994.5	17231.8	17698.0
35°	12637.9	12616.7	12122.3	11130.1	9957.7	9717.6	10413.3	13750.2	18880.9	19622.4
37.5°	14685.9	14675.3	14392.8	13224.0	11797.5	11140.7	11472.6	14738.9	20646.4	21719.9
40°	16557.4	16589.2	16306.7	15261.5	13824.3	12966.3	12913.3	15960.6	22609.7	24004.5
42.5°	18174.7	18210.0	17923.9	17150.6	15826.5	14986.1	14682.4	17457.8	24527.1	26458.6
45°	19272.8	19491.8	19449.4	18831.4	17881.6	17009.4	16808.1	19336.4	26712.9	29061.1
47.5°	19583.6	19784.8	20102.6	20187.4	19608.3	18750.2	18990.3	21599.8	28923.4	31667.0
50°	18817.3	19004.5	19664.8	20544.0	20946.6	20681.7	21112.5	24025.7	31186.8	34265.9
52.5°	17306.0	17496.7	18330.0	19721.3	21363.2	22196.6	23241.8	26416.3	33379.6	36727.1
55°	15120.2	15321.5	16391.4	17966.3	20568.7	22821.6	25018.0	28803.3	35388.8	38941.1
57.5°	12147.0	12295.3	13407.6	15611.1	18570.1	22200.1	26328.0	31409.3	37281.5	41116.3
60°	7916.8	8047.4	9339.8	11797.5	15258.0	20123.8	26589.3	34315.4	39795.7	43944.7
62.5°	5264.9	5353.2	6119.4	7923.8	10745.2	16137.2	25060.3	36635.3	43482.2	48867.1
65°	3612.3	3700.6	4466.9	5723.9	6942.2	10674.6	20664.1	36328.1	46822.6	52776.1
67.5°	2577.7	2651.9	3301.6	4488.0	5024.8	6200.6	14007.9	32401.5	46342.4	52924.4
70°	1846.8	1889.1	2425.9	3495.8	3993.7	3725.3	7789.6	24781.4	40576.0	48870.6
72.5°	1292.4	1306.5	1684.3	2662.5	3216.8	2719.0	3707.7	16522.1	30688.9	38358.5
75°	875.7	893.4	1133.5	1952.7	2581.2	2076.3	1963.3	8859.6	18015.8	21232.6
77.5°	536.7	543.8	730.9	1334.8	1931.5	1581.9	1264.1	3753.6	6970.4	6843.3
80°	303.7	303.7	466.1	829.8	1317.1	1020.5	886.3	1596.1	2206.9	1938.6
82.5°	169.5	173.0	339.0	515.5	872.2	603.8	487.3	738.0	953.4	843.9
85°	70.6	77.7	208.3	243.6	416.7	300.1	197.7	310.7	353.1	314.3
87.5°	7.1	10.6	63.6	45.9	49.4	60.0	28.2	60.0	49.4	49.4
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°
8125.1	0°	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1	8125.1
8245.2	2.5°	8178.1	8125.1	7990.9	7835.5	7630.7	7531.9	7397.7	7305.9	7228.2	7235.3
8450.0	5°	8337.0	8202.8	7902.6	7528.3	7062.2	6730.3	6377.2	6133.5	5935.8	5893.4
8732.4	7.5°	8555.9	8344.0	7817.9	7143.4	6356.0	5759.2	5226.1	4883.5	4639.9	4562.2
9075.0	10°	8838.4	8531.2	7708.4	6659.7	5526.2	4767.0	4195.0	3926.6	3760.6	3704.1
9477.5	12.5°	9166.8	8746.6	7563.6	6070.0	4671.7	3940.7	3577.0	3442.8	3389.9	3372.2
9971.9	15°	9579.9	9014.9	7344.7	5370.8	3947.8	3435.8	3280.4	3262.8	3269.8	3262.8
10565.1	17.5°	10070.7	9308.0	6988.1	4650.5	3460.5	3178.0	3121.5	3135.6	3153.3	3149.8
11228.9	20°	10607.5	9597.6	6532.6	4011.3	3128.6	2994.4	2962.6	2976.7	2990.9	2983.8
11995.2	22.5°	11218.4	9908.3	6027.6	3513.5	2906.1	2824.9	2789.6	2793.1	2793.1	2779.0
12966.3	25°	11949.3	10250.8	5497.9	3160.3	2736.6	2673.1	2630.7	2616.6	2595.4	2553.0
14145.6	27.5°	12821.5	10614.5	4989.5	2913.2	2602.4	2542.4	2493.0	2457.7	2404.7	2334.1
15561.6	30°	13803.1	11055.9	4558.7	2757.8	2496.5	2436.5	2380.0	2327.0	2249.3	2161.0
17189.5	32.5°	14957.8	11529.1	4244.4	2655.4	2401.2	2337.6	2270.5	2206.9	2122.2	2033.9
19018.6	35°	16334.9	12101.1	4060.8	2584.8	2327.0	2242.3	2168.1	2097.5	2033.9	1956.2
21006.6	37.5°	17828.6	12708.5	4004.3	2549.5	2277.6	2146.9	2062.2	2012.7	2005.7	1959.8
23157.1	40°	19463.5	13428.8	4046.7	2528.3	2224.6	2055.1	1963.3	1952.7	1970.4	1889.1
25455.8	42.5°	21193.8	14283.4	4117.3	2503.6	2150.4	1963.3	1875.0	1875.0	1860.9	1747.9
27885.2	45°	23065.2	15268.5	4187.9	2443.5	2062.2	1871.5	1804.4	1779.7	1719.7	1610.2
30328.8	47.5°	24950.9	16271.4	4240.9	2334.1	1956.2	1793.8	1733.8	1677.3	1589.0	1490.1
32726.4	50°	26741.1	17171.8	4184.4	2171.6	1836.2	1719.7	1656.1	1578.4	1483.1	1416.0
34996.9	52.5°	28340.7	17952.2	3944.3	1981.0	1709.1	1642.0	1585.5	1504.3	1426.6	1355.9
37044.9	55°	29732.0	18584.3	3520.5	1800.9	1596.1	1574.9	1518.4	1416.0	1310.0	1250.0
39075.3	57.5°	31066.8	19064.5	2990.9	1652.6	1493.7	1500.7	1416.0	1324.2	1225.3	1161.7
41811.9	60°	32842.9	19707.2	2454.1	1514.8	1384.2	1405.4	1313.6	1246.5	1122.9	1041.7
46504.8	62.5°	35681.9	20706.5	1949.2	1345.4	1257.1	1264.1	1225.3	1144.1	995.8	900.4
49982.9	65°	37934.8	20339.2	1536.0	1161.7	1112.3	1122.9	1122.9	1034.6	875.7	766.3
50170.1	67.5°	37680.5	17415.5	1225.3	981.7	974.6	981.7	1006.4	932.2	776.8	688.6
46349.4	70°	34710.9	13852.6	981.7	815.7	847.5	829.8	900.4	851.0	699.2	610.9
35932.6	72.5°	28323.1	9978.9	748.6	674.4	649.7	678.0	812.2	766.3	582.6	483.8
19032.7	75°	16550.3	5324.9	557.9	533.2	469.6	565.0	720.3	653.3	444.9	356.6
5833.4	77.5°	5388.5	1857.4	409.6	392.0	349.6	455.5	614.4	550.9	363.7	282.5
1709.1	80°	1444.2	561.4	279.0	257.8	226.0	339.0	487.3	437.9	261.3	183.6
734.5	82.5°	579.1	236.6	162.4	144.8	123.6	233.1	384.9	353.1	194.2	116.5
229.5	85°	187.1	77.7	60.0	45.9	56.5	144.8	229.5	240.1	137.7	60.0
35.3	87.5°	24.7	10.6	10.6	14.1	10.6	24.7	70.6	67.1	38.8	7.1
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>
8125.1
7164.6
5798.1
4484.5
3661.8
3361.6
3259.2
3142.7
2980.3
2771.9
2545.9
2327.0
2154.0
2037.5
1949.2
1956.2
1892.7
1747.9
1606.7
1486.6
1405.4
1348.9
1243.0
1154.7
1031.1
893.4
755.7
674.4
600.3
473.2
346.0
271.9
180.1
116.5
45.9
0.0
0.0

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