

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: P944719

Luminaire Tested: **GALN-SB9D-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-750-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 96920 lumens
Efficiency: N/A
Efficacy: 147.3 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

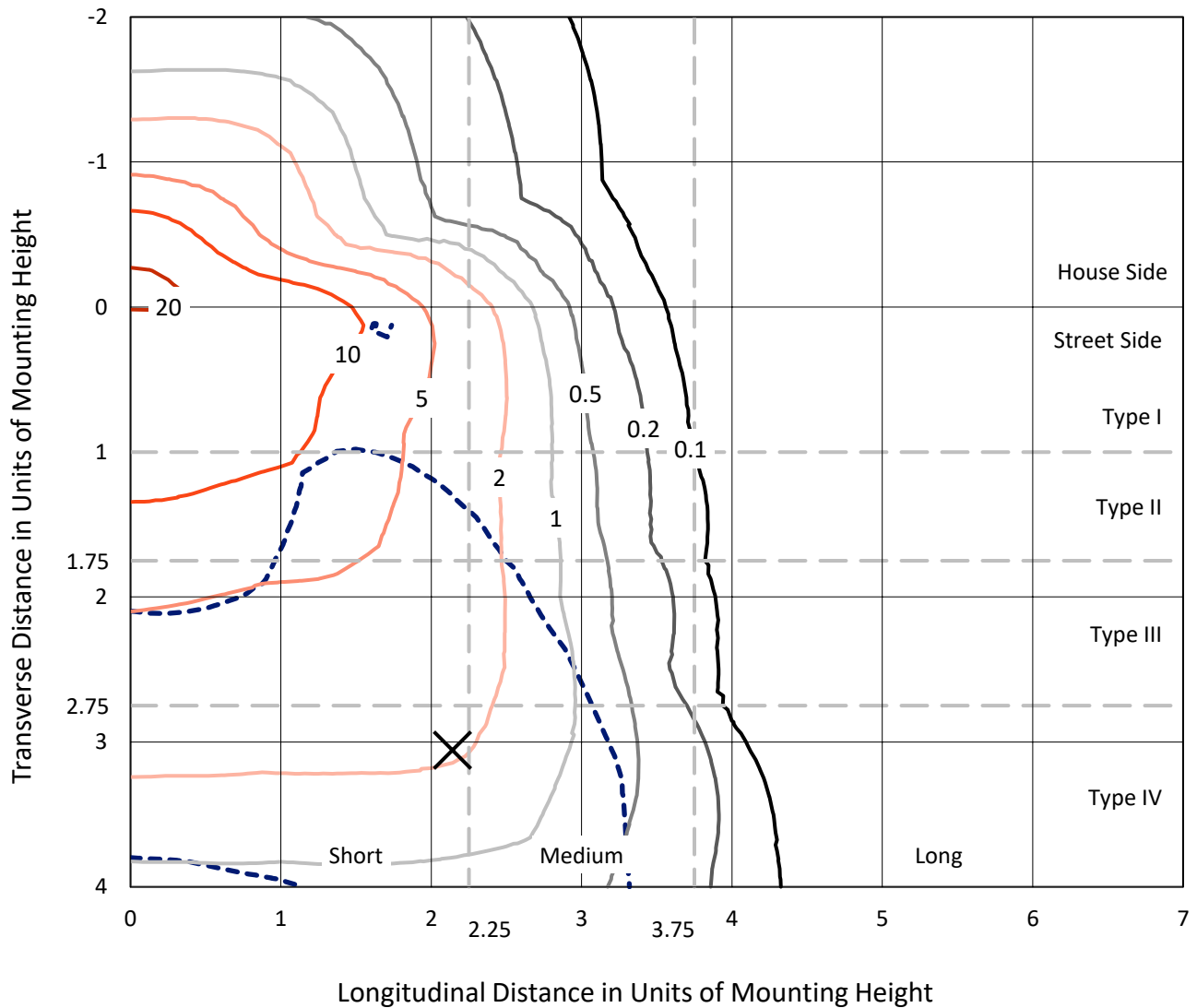
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

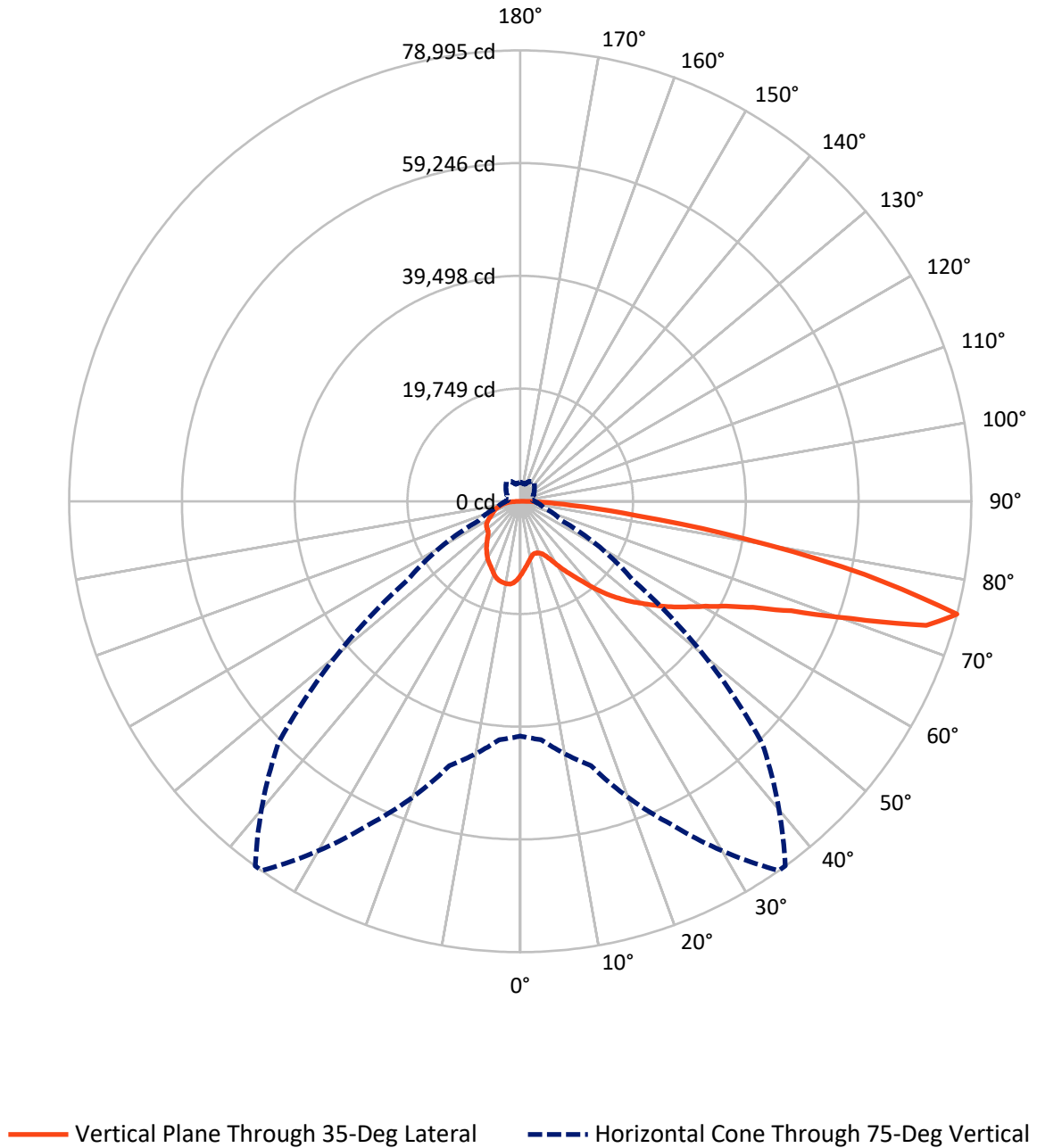
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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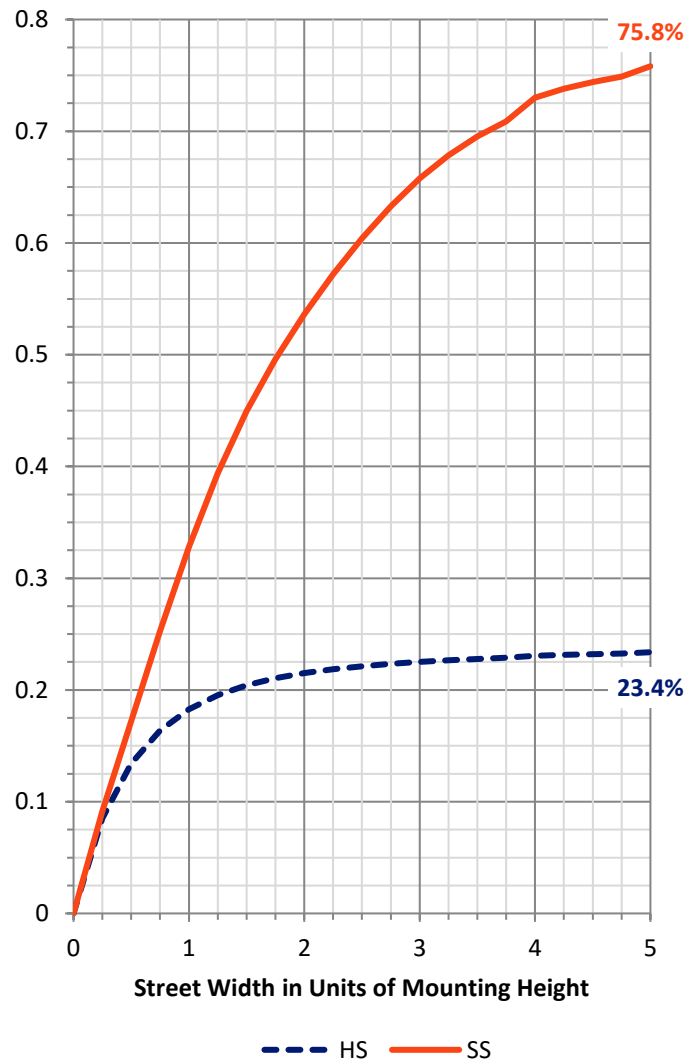
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23064.5	0.0	23064.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	73855.5	0.0	73855.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	96920.0	0.0	96920.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1222.8	1.3
10°-20°	3527.1	3.6
20°-30°	5923.0	6.1
30°-40°	9205.1	9.5
40°-50°	13662.9	14.1
50°-60°	18862.4	19.5
60°-70°	22884.4	23.6
70°-80°	18912.2	19.5
80°-90°	2720.1	2.8
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°	96920.0	100.0
0°-180°	96920.0	100.0



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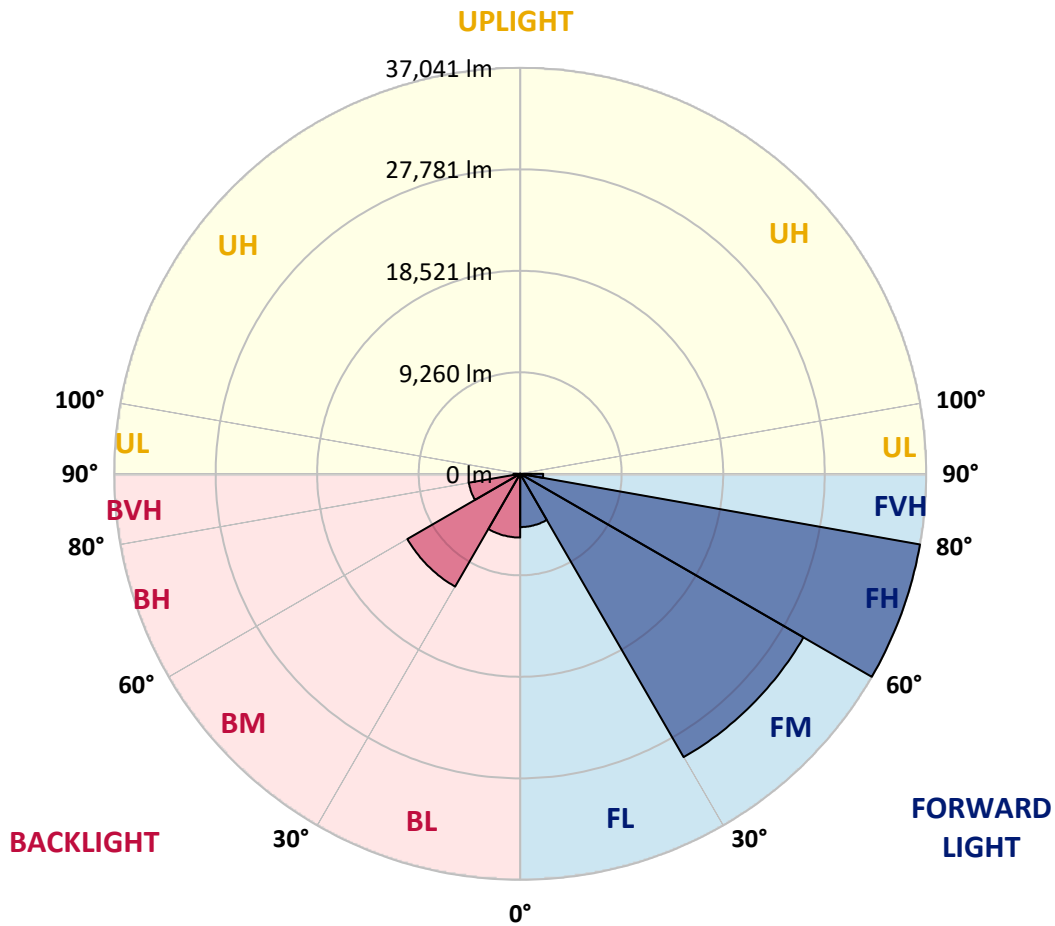
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4860.3	5.0			
FM (30°-60°)	29846.1	30.8			
FH (60°-80°)	37041.4	38.2			G5
FVH (80°-90°)	2107.6	2.2			G5
BL (0°-30°)	5812.6	6.0	B5		
BM (30°-60°)	11884.2	12.3	B5		
BH (60°-80°)	4755.2	4.9	B4/5000		G4/5000
BVH (80°-90°)	612.5	0.6			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°	36°	45°	55°	65°	75°
0°	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2
2.5°	11909.3	11982.6	12014.1	11998.3	12076.9	12066.5	12176.5	12312.7	12501.3	12684.7
5°	10992.4	11071.0	11139.1	11201.9	11353.9	11401.0	11573.9	11835.9	12181.7	12532.8
7.5°	10138.3	10206.4	10311.2	10426.5	10683.2	10730.4	11018.6	11427.2	11909.3	12422.7
10°	9441.5	9509.6	9619.6	9750.6	10070.2	10127.9	10494.6	11039.5	11668.3	12317.9
12.5°	9142.8	9163.8	9226.7	9357.7	9635.3	9672.0	10075.5	10699.0	11432.5	12239.4
15°	9127.1	9169.0	9174.3	9242.4	9472.9	9488.6	9860.6	10478.9	11285.8	12223.6
17.5°	9284.3	9315.7	9268.6	9310.5	9504.4	9530.6	9824.0	10374.1	11238.6	12291.8
20°	9703.5	9729.7	9588.2	9530.6	9672.0	9693.0	9981.2	10442.2	11285.8	12433.2
22.5°	10594.2	10609.9	10264.1	10028.3	10038.8	10049.3	10300.8	10719.9	11469.2	12689.9
25°	11982.6	11972.1	11422.0	10966.2	10704.2	10646.6	10814.2	11170.5	11778.3	13030.5
27.5°	13606.9	13528.3	12978.1	12297.0	11725.9	11642.1	11605.4	11757.3	12218.4	13481.1
30°	15440.7	15367.3	14775.3	13884.5	13093.4	12957.2	12611.4	12532.8	12873.3	14094.1
32.5°	17452.6	17405.5	16698.1	15618.8	14560.4	14403.2	13821.7	13612.1	13879.3	15021.5
35°	19139.7	19097.8	18511.0	17400.2	16106.1	15912.2	15320.2	15084.4	15220.6	16210.9
37.5°	20664.4	20643.4	20140.4	19265.5	17929.4	17693.6	17028.2	16949.6	16923.4	17777.5
40°	22079.0	22026.7	21502.7	21041.6	20051.4	19836.6	19249.7	19181.6	18982.5	19705.6
42.5°	23645.6	23509.4	22749.7	22534.9	22267.7	22089.5	21738.5	21749.0	21308.8	21879.9
45°	24924.1	24845.5	24064.8	23939.0	24227.2	24153.9	24457.8	24536.3	23682.3	24159.1
47.5°	26296.8	26223.5	25563.3	25474.2	26254.9	26275.8	27349.9	27376.1	25998.2	26527.3
50°	27989.1	27884.4	27229.4	27339.5	28214.4	28293.0	30257.8	30079.7	28130.6	28932.2
52.5°	29105.1	29168.0	29026.6	29204.7	30399.3	30472.6	33118.6	32662.7	30242.1	31305.7
55°	29927.7	30053.5	30493.6	30902.3	32704.7	32778.0	35816.9	35120.0	31992.1	33506.3
57.5°	30986.1	30808.0	31630.6	32427.0	34894.7	35088.6	38441.8	37488.3	33543.0	35403.0
60°	32505.6	32379.8	33019.0	34197.9	37346.8	37655.9	41218.8	39620.7	34679.9	36906.7
62.5°	35586.3	35272.0	35371.5	36414.2	40438.1	40846.8	44351.9	41480.7	35245.8	37493.5
65°	40191.8	39652.2	39149.2	39872.2	44792.1	45195.5	47888.6	42942.5	35036.2	36356.5
67.5°	45991.9	45457.5	44839.2	45520.3	51205.2	51524.8	52253.0	43765.1	33385.8	31976.4
70°	50775.5	50576.4	51315.2	54118.3	61448.3	61458.8	57848.8	43084.0	28864.1	22671.1
72.5°	50141.5	50021.0	53913.9	62580.0	74358.3	74080.6	63145.9	37928.4	19443.6	10227.4
75°	41134.9	41915.6	47946.2	62428.1	78995.2	78958.5	59902.6	24112.0	8042.6	4238.7
77.5°	22058.1	23294.6	31127.6	46091.4	61668.3	62595.7	42114.7	8435.5	3452.8	2714.0
80°	7193.8	8273.1	12407.0	23467.5	40071.3	39898.4	18049.9	3311.3	2363.0	1922.9
82.5°	3054.6	3180.3	5543.3	11081.4	20564.8	20245.2	5747.7	1901.9	1660.9	1315.1
85°	1194.6	1336.1	2446.8	5124.2	8907.1	8713.2	2074.8	943.1	1063.6	859.3
87.5°	393.0	476.8	875.0	1755.2	2771.7	2672.1	508.2	324.8	461.1	393.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
12915.2	0°	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2	12915.2
12951.9	2.5°	13025.3	13109.1	13208.7	13355.4	13481.1	13585.9	13695.9	13764.0	13790.2	13868.8
12972.9	5°	13119.6	13303.0	13549.2	13790.2	14026.0	14167.5	14293.2	14356.1	14413.7	14455.6
13030.5	7.5°	13276.8	13512.5	13900.3	14214.6	14413.7	14529.0	14612.8	14591.9	14612.8	14623.3
13093.4	10°	13413.0	13743.1	14204.2	14502.8	14654.7	14660.0	14639.0	14565.7	14529.0	14534.2
13187.7	12.5°	13575.4	13942.2	14439.9	14691.4	14733.3	14618.1	14529.0	14403.2	14356.1	14335.1
13329.2	15°	13795.5	14214.6	14696.7	14791.0	14686.2	14539.5	14387.5	14183.2	14078.4	13994.6
13570.2	17.5°	14062.7	14523.8	14895.8	14827.6	14602.3	14361.3	14115.1	13806.0	13591.1	13502.1
13900.3	20°	14434.7	14848.6	15047.7	14749.1	14408.5	14041.7	13622.6	13245.3	13046.2	12957.2
14319.4	22.5°	14885.3	15283.5	15194.4	14612.8	14130.8	13544.0	13020.0	12742.3	12642.8	12579.9
14859.1	25°	15424.9	15765.5	15299.2	14413.7	13675.0	12883.8	12480.4	12391.3	12344.1	12297.0
15519.3	27.5°	16127.0	16310.4	15377.8	14120.3	12962.4	12181.7	12035.0	12050.7	12035.0	11956.4
16436.2	30°	17054.4	17017.7	15451.1	13643.5	12145.0	11547.7	11558.2	11626.3	11636.8	11584.4
17714.6	32.5°	18275.2	17903.2	15487.8	13025.3	11364.4	10992.4	11002.8	11076.2	11128.6	11039.5
19386.0	35°	19752.7	18935.4	15430.2	12249.8	10761.8	10463.2	10384.6	10405.5	10421.3	10337.4
21413.6	37.5°	21476.5	20093.3	15173.4	11390.6	10264.1	9944.5	9776.8	9635.3	9551.5	9472.9
23708.5	40°	23367.9	21356.0	14701.9	10552.3	9708.7	9394.3	9142.8	8875.6	8592.7	8487.9
26139.6	42.5°	25348.5	22655.4	14130.8	9750.6	9069.5	8812.8	8545.5	8157.8	7733.4	7518.6
28665.0	45°	27402.3	23986.2	13570.2	8959.5	8414.6	8304.5	7995.4	7529.1	7068.0	6795.6
31195.7	47.5°	29414.3	25243.7	12747.6	8163.1	7801.5	7922.0	7681.0	7251.4	6737.9	6308.3
33705.4	50°	31337.2	26422.5	11401.0	7356.2	7303.8	7806.8	7576.2	6958.0	6371.2	5821.0
36167.9	52.5°	33244.3	27376.1	9677.3	6622.7	7036.6	7775.3	7440.0	6758.9	6041.1	5464.7
38483.8	55°	34863.3	27868.6	8016.4	5993.9	6648.9	7508.1	7277.6	6523.1	5574.8	4961.8
40071.3	57.5°	35785.4	27470.4	6633.1	5375.7	6114.4	7068.0	6999.9	6020.1	5019.4	4547.8
40380.4	60°	35387.2	25856.7	5501.4	4836.0	5606.2	6591.2	6517.9	5522.4	4595.0	4149.6
38724.8	62.5°	33191.9	22781.1	4605.5	4364.5	5145.1	6104.0	6035.8	5139.9	4270.2	3840.5
34328.9	65°	28769.8	18531.9	3908.6	3971.5	4678.8	5517.1	5616.7	4820.3	4013.4	3594.3
26558.8	67.5°	21942.8	13423.5	3363.7	3630.9	4223.0	4940.8	5229.0	4589.8	3798.6	3400.4
15367.3	70°	12506.6	7623.4	2902.7	3300.9	3819.6	4406.4	4930.3	4406.4	3568.1	3238.0
5758.2	72.5°	4741.7	3500.0	2509.7	2970.8	3431.8	3955.8	4600.2	4118.2	3300.9	3054.6
2976.0	75°	2530.7	2132.5	2111.5	2583.0	2986.5	3515.7	4186.3	3835.3	3101.8	3227.5
2059.1	77.5°	1723.8	1509.0	1765.7	2211.0	2499.2	3028.4	3746.2	3405.6	2687.8	2677.4
1425.1	80°	1194.6	1068.8	1435.6	1781.4	1933.4	2546.4	3269.4	2923.6	2190.1	2043.4
880.2	82.5°	717.8	696.8	1074.1	1330.8	1367.5	1964.8	2708.8	2452.1	1791.9	1561.4
523.9	85°	393.0	413.9	686.4	780.7	796.4	1372.7	2122.0	1896.7	1378.0	1157.9
188.6	87.5°	110.0	141.5	251.5	309.1	382.5	712.6	1262.7	1126.5	691.6	482.0
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°
12915.2
13863.6
14466.1
14639.0
14544.7
14324.7
14020.8
13507.3
12946.7
12590.4
12297.0
11972.1
11610.6
11081.4
10395.1
9525.3
8535.1
7544.8
6774.6
6261.1
5773.9
5401.9
4909.4
4485.0
4086.8
3772.4
3526.2
3337.5
3196.1
3012.7
3332.3
2467.8
1954.3
1571.8
1168.4
482.0
0.0

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