

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: P944572

Luminaire Tested: **GALN-SB9C-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60758 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

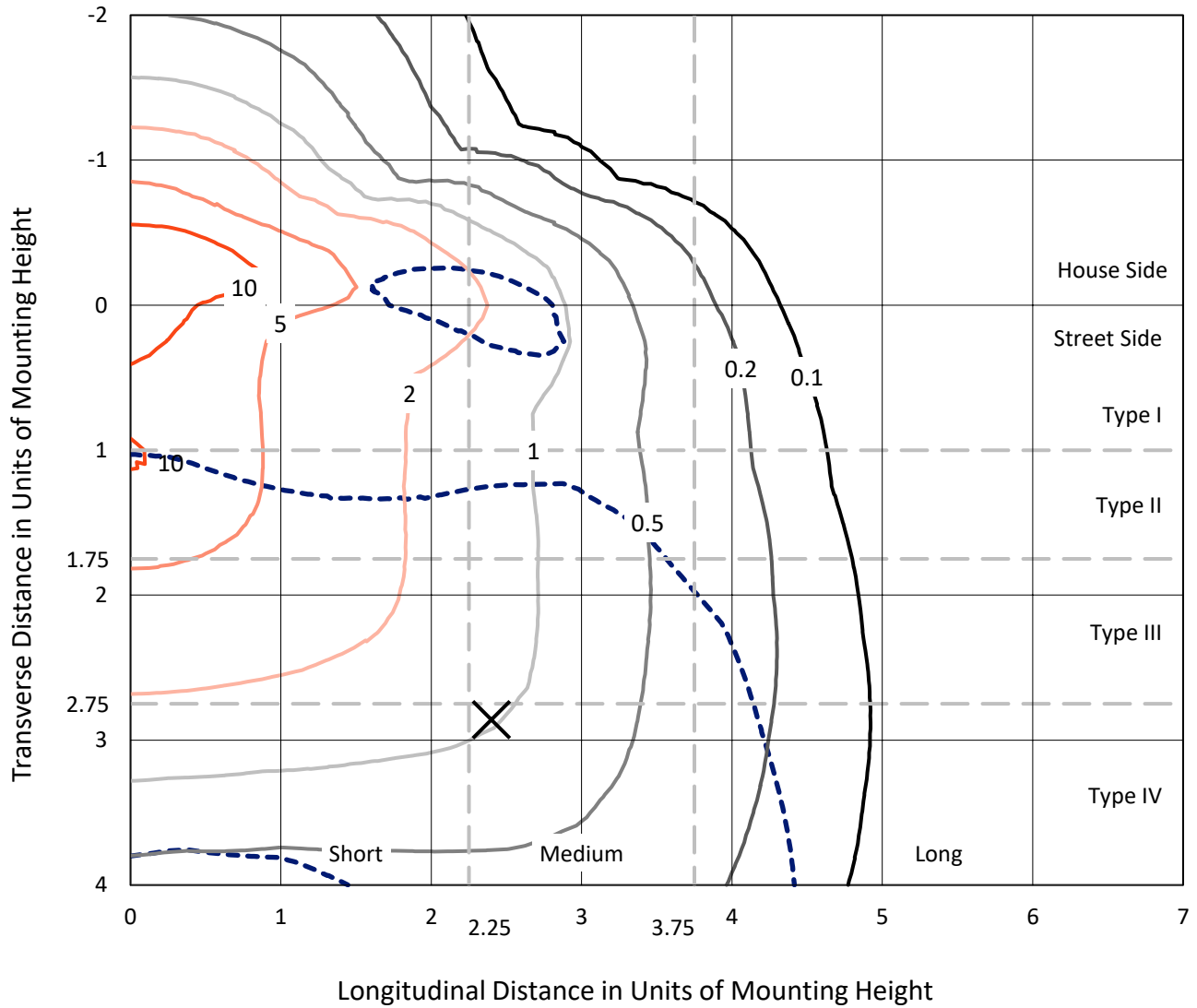
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

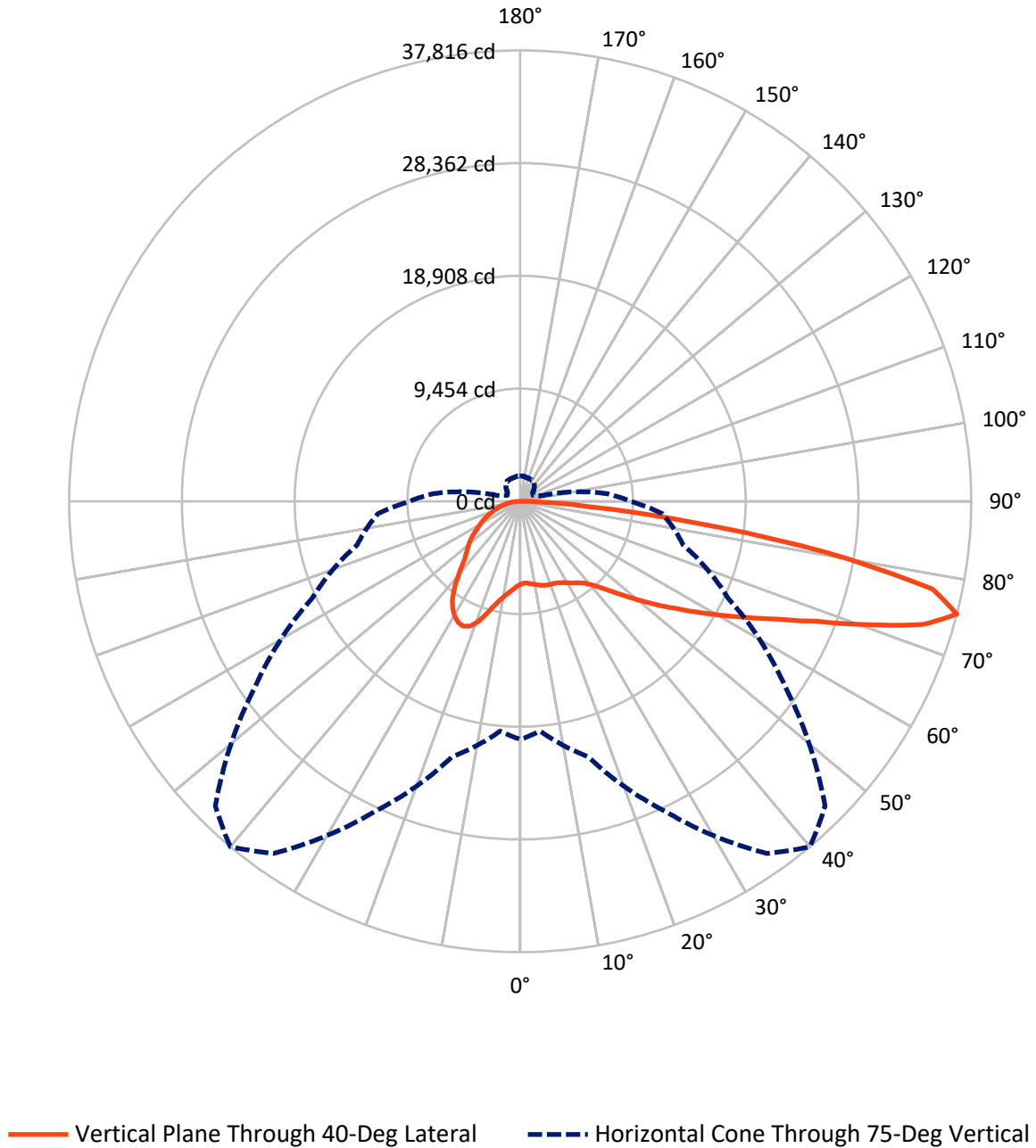
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18824.9	0.0	18824.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	41933.1	0.0	41933.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	60758.0	0.0	60758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.5	1.1
10°-20°	2328.5	3.8
20°-30°	4251.6	7.0
30°-40°	6029.9	9.9
40°-50°	8142.2	13.4
50°-60°	10953.4	18.0
60°-70°	13902.4	22.9
70°-80°	12617.3	20.8
80°-90°	1839.2	3.0
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°	60758.0	100.0
0°-180°	60758.0	100.0

Coefficient of Utilization



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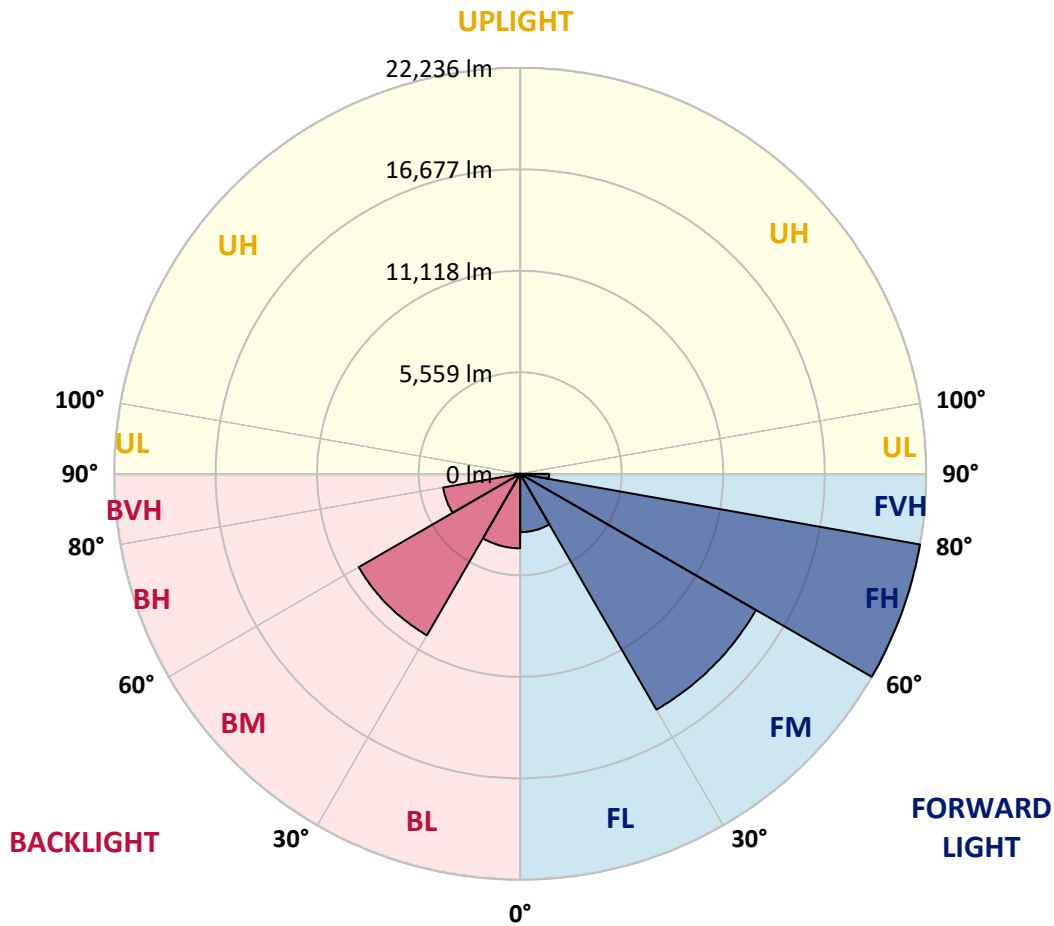
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3195.9	5.3			
FM (30°-60°)	14914.7	24.5			
FH (60°-80°)	22236.5	36.6			G5
FVH (80°-90°)	1586.0	2.6			G5
BL (0°-30°)	4077.6	6.7	B4/5000		
BM (30°-60°)	10210.8	16.8	B5		
BH (60°-80°)	4283.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	253.2	0.4			G3/500
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8
2.5°	6841.4	6880.1	6870.4	6857.5	6857.5	6860.8	6857.5	6880.1	6902.6	6925.2
5°	6912.3	6951.0	6931.6	6915.5	6902.6	6899.4	6889.8	6886.5	6899.4	6928.4
7.5°	7050.9	7089.5	7060.5	7031.5	7005.8	6992.9	6980.0	6960.6	6951.0	6967.1
10°	7205.6	7244.2	7208.8	7157.2	7115.3	7099.2	7086.3	7067.0	7054.1	7063.8
12.5°	7360.2	7398.9	7350.6	7279.7	7224.9	7215.2	7199.1	7192.7	7189.4	7186.2
15°	7505.3	7537.5	7476.3	7392.5	7334.5	7318.3	7302.2	7311.9	7328.0	7347.4
17.5°	7618.0	7650.3	7560.0	7450.5	7395.7	7389.2	7379.6	7411.8	7456.9	7505.3
20°	7721.2	7753.4	7637.4	7489.1	7424.7	7424.7	7427.9	7495.6	7560.0	7630.9
22.5°	7866.2	7892.0	7750.2	7547.1	7453.7	7460.1	7485.9	7553.6	7634.2	7730.8
25°	8082.1	8101.4	7927.4	7656.7	7550.4	7569.7	7592.3	7624.5	7701.8	7814.6
27.5°	8430.1	8446.2	8217.4	7850.1	7688.9	7721.2	7753.4	7730.8	7766.3	7863.0
30°	8919.9	8929.6	8639.6	8153.0	7924.2	7940.3	7946.7	7853.3	7785.6	7863.0
32.5°	9500.0	9496.8	9152.0	8520.3	8191.7	8175.5	8120.8	7937.1	7779.2	7846.8
35°	10399.1	10363.6	9918.9	9036.0	8494.6	8394.7	8265.8	8030.5	7811.4	7830.7
37.5°	11887.9	11778.3	11162.8	9880.3	8945.7	8691.1	8501.0	8182.0	7882.3	7824.3
40°	13566.8	13428.3	12751.5	11037.1	9622.5	9213.2	8907.1	8397.9	7998.3	7853.3
42.5°	15558.3	15361.8	14633.5	12400.3	10479.6	9886.7	9425.9	8671.8	8169.1	7946.7
45°	18004.2	17743.2	16712.0	13937.4	11559.2	10769.7	10154.2	9087.5	8430.1	8127.2
47.5°	20475.9	20540.4	19074.1	15696.9	12854.6	11858.9	11066.1	9712.7	8810.4	8417.2
50°	23102.3	23147.4	21423.3	17646.5	14324.1	13089.9	12090.9	10412.0	9338.9	8829.7
52.5°	25151.8	25158.2	23556.6	19686.4	15854.8	14443.3	13196.2	11211.2	9951.1	9377.5
55°	26434.4	26418.2	25051.9	21616.7	17614.3	15864.5	14420.8	12119.9	10698.8	10022.0
57.5°	27365.7	27317.3	26083.1	23276.3	19489.8	17543.4	15806.5	13151.1	11581.7	10789.0
60°	27720.1	27691.1	26782.4	24710.3	21462.0	19399.6	17404.8	14304.8	12583.9	11694.5
62.5°	27855.5	27910.3	27468.8	26099.2	23572.8	21455.6	19161.1	15684.0	13711.8	12719.3
65°	28332.4	28432.3	28342.1	27916.7	25957.4	23862.8	21491.0	17324.3	14942.8	13818.2
67.5°	29276.6	29376.5	29415.2	30091.9	28870.6	26862.9	24397.7	19367.4	16383.3	14958.9
70°	29254.1	29225.1	29908.2	31822.4	32518.5	31016.8	28316.3	21880.9	18100.9	15906.4
72.5°	26627.7	26395.7	28010.2	31803.1	35554.1	35354.3	33101.7	25122.8	19583.3	16022.4
75°	19976.4	19357.7	22209.6	28661.1	36060.0	37816.3	36143.8	27133.6	19232.0	14156.5
77.5°	8542.9	7921.0	11282.1	21217.1	32273.6	35351.1	33353.1	23672.6	15352.1	9361.4
80°	2236.4	2233.2	3409.4	9619.2	21948.6	26105.7	22902.5	15287.6	8771.7	3345.0
82.5°	924.9	902.3	1253.6	3741.3	10724.6	14649.6	11955.6	6818.9	3167.7	905.5
85°	344.8	341.6	609.1	1292.2	3783.2	6042.2	4373.0	1743.4	789.5	441.5
87.5°	96.7	93.5	132.1	447.9	921.6	1398.6	747.6	286.8	222.4	174.0
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°
6947.8	0°	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8	6947.8
6960.6	2.5°	6970.3	6986.4	7015.4	7038.0	7067.0	7099.2	7144.3	7173.3	7202.3	7221.7
6976.8	5°	6999.3	7034.8	7108.9	7183.0	7270.0	7350.6	7444.0	7511.7	7566.5	7582.6
7034.8	7.5°	7063.8	7121.8	7247.5	7373.1	7511.7	7643.8	7779.2	7895.2	7988.6	8024.1
7137.9	10°	7176.6	7253.9	7431.1	7608.4	7792.1	7995.1	8169.1	8336.7	8468.8	8523.6
7260.3	12.5°	7318.3	7415.0	7647.0	7892.0	8146.5	8426.9	8652.5	8858.7	9023.1	9097.2
7431.1	15°	7502.0	7627.7	7924.2	8252.9	8626.7	9016.6	9303.4	9532.2	9715.9	9806.1
7608.4	17.5°	7701.8	7869.4	8243.2	8739.5	9274.4	9786.8	10121.9	10289.5	10479.6	10566.7
7772.7	20°	7895.2	8101.4	8636.4	9358.2	10070.4	10615.0	10885.7	10930.8	10943.7	10953.4
7927.4	22.5°	8095.0	8372.1	9129.4	10138.1	10901.8	11278.8	11317.5	11124.1	10853.5	10727.8
8078.9	25°	8314.1	8681.5	9773.9	10998.5	11617.2	11662.3	11365.8	10895.3	10383.0	10147.7
8201.3	27.5°	8526.8	9039.2	10547.3	11820.2	12132.8	11736.4	11098.4	10431.3	9812.6	9564.4
8288.3	30°	8739.5	9448.4	11401.3	12538.8	12368.0	11552.7	10676.2	9931.8	9309.9	9048.8
8365.7	32.5°	8955.4	9925.4	12384.2	13057.7	12326.1	11162.8	10150.9	9371.1	8823.3	8549.4
8433.3	35°	9200.3	10511.9	13315.5	13341.2	12045.8	10589.2	9458.1	8700.8	8223.9	8004.7
8513.9	37.5°	9519.3	11256.3	14137.2	13412.1	11556.0	9748.1	8597.7	7908.1	7514.9	7415.0
8633.1	40°	9915.7	12152.1	14765.6	13299.3	10830.9	8726.6	7656.7	7105.7	6883.3	6905.9
8794.3	42.5°	10431.3	13154.3	15207.1	13009.3	9822.2	7672.8	6831.7	6586.8	6693.2	6783.4
9036.0	45°	11101.6	14195.2	15481.0	12516.3	8681.5	6780.2	6345.1	6403.2	6483.7	6493.4
9425.9	47.5°	11958.8	15249.0	15661.5	11771.9	7518.1	6151.8	6035.8	6048.7	6032.6	5964.9
10009.2	50°	13028.7	16273.7	15822.6	10785.8	6528.8	5758.6	5604.0	5558.9	5336.5	5117.4
10785.8	52.5°	14246.8	17214.7	15890.3	9561.2	5758.6	5430.0	5178.6	4895.0	4479.3	4411.6
11762.2	55°	15600.2	18084.8	15716.2	8056.3	5110.9	5007.8	4627.5	4286.0	4240.8	4182.8
13048.0	57.5°	17217.9	19022.5	15361.8	6377.4	4447.1	4514.8	4144.2	4182.8	4102.3	4012.0
14701.1	60°	18987.1	19992.5	14739.8	4846.7	3760.7	3899.3	4018.5	4015.3	3992.7	3918.6
16444.5	62.5°	20579.0	20630.6	13515.3	3712.3	3158.1	3422.3	3747.8	3744.6	3725.2	3683.3
18265.3	65°	21526.4	20533.9	11472.2	2922.8	2661.8	3029.2	3380.4	3406.2	3409.4	3406.2
19634.8	67.5°	21358.9	19402.8	8668.6	2326.7	2252.5	2629.6	3016.3	3051.7	3077.5	3084.0
19808.8	70°	19464.0	16918.2	5652.3	1856.2	1888.4	2278.3	2671.5	2706.9	2729.5	2755.3
17188.9	72.5°	15171.6	12438.9	3235.4	1501.7	1569.4	1975.4	2329.9	2371.8	2384.7	2433.0
11962.0	75°	9245.4	7315.1	1746.6	1182.7	1289.0	1688.6	1991.5	2039.9	2062.4	2120.4
5874.7	77.5°	4395.5	3167.7	995.8	921.6	1037.7	1379.2	1682.2	1736.9	1675.7	1707.9
1620.9	80°	1485.6	1176.2	628.4	702.5	792.7	1076.3	1347.0	1401.8	1272.9	1266.5
538.2	82.5°	518.8	476.9	399.6	467.3	512.4	770.2	1018.3	1089.2	947.4	944.2
241.7	85°	203.0	193.4	222.4	254.6	306.1	473.7	670.3	705.7	583.3	470.5
70.9	87.5°	41.9	45.1	54.8	58.0	93.5	164.3	241.7	296.5	235.2	199.8
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°
6947.8
7208.8
7589.0
8027.3
8526.8
9097.2
9799.7
10563.4
10979.1
10763.2
10183.2
9593.4
9077.8
8584.8
8053.1
7485.9
6983.2
6867.2
6557.8
6016.4
5146.4
4434.2
4192.5
3995.9
3892.8
3667.2
3406.2
3090.4
2768.1
2452.3
2126.9
1682.2
1253.6
899.1
464.0
183.7
0.0

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