

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: P957198

Luminaire Tested: **GALN-SB9C-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957198
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-SB9C-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65120 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

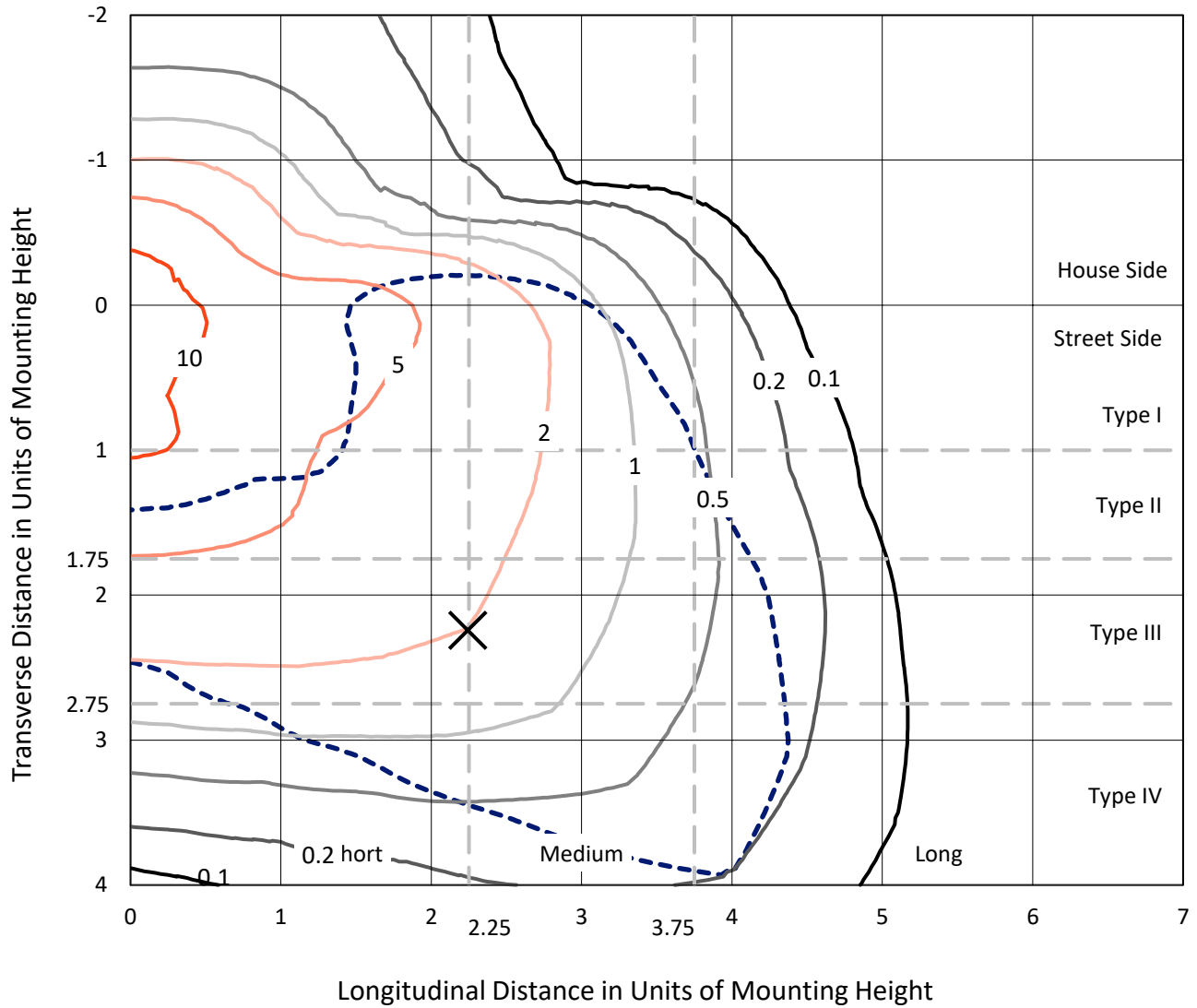
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

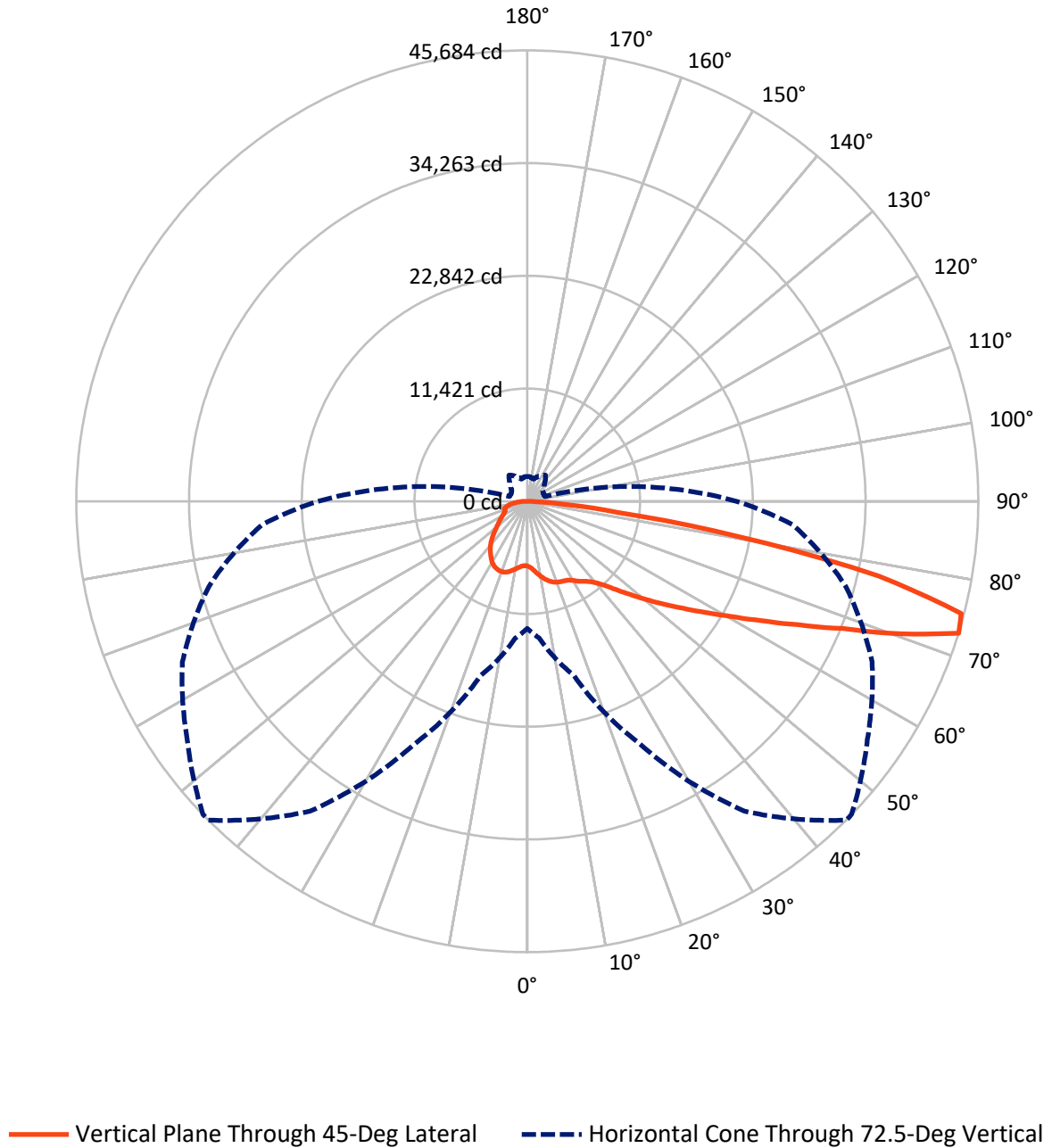
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	14721.4	0.0	14721.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	50398.6	0.0	50398.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	65120.0	0.0	65120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.6	1.0
10°-20°	2229.3	3.4
20°-30°	3878.0	6.0
30°-40°	5559.3	8.5
40°-50°	7827.8	12.0
50°-60°	11989.9	18.4
60°-70°	17369.2	26.7
70°-80°	13870.3	21.3
80°-90°	1727.5	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°	65120.0	100.0
0°-180°	65120.0	100.0

Coefficient of Utilization



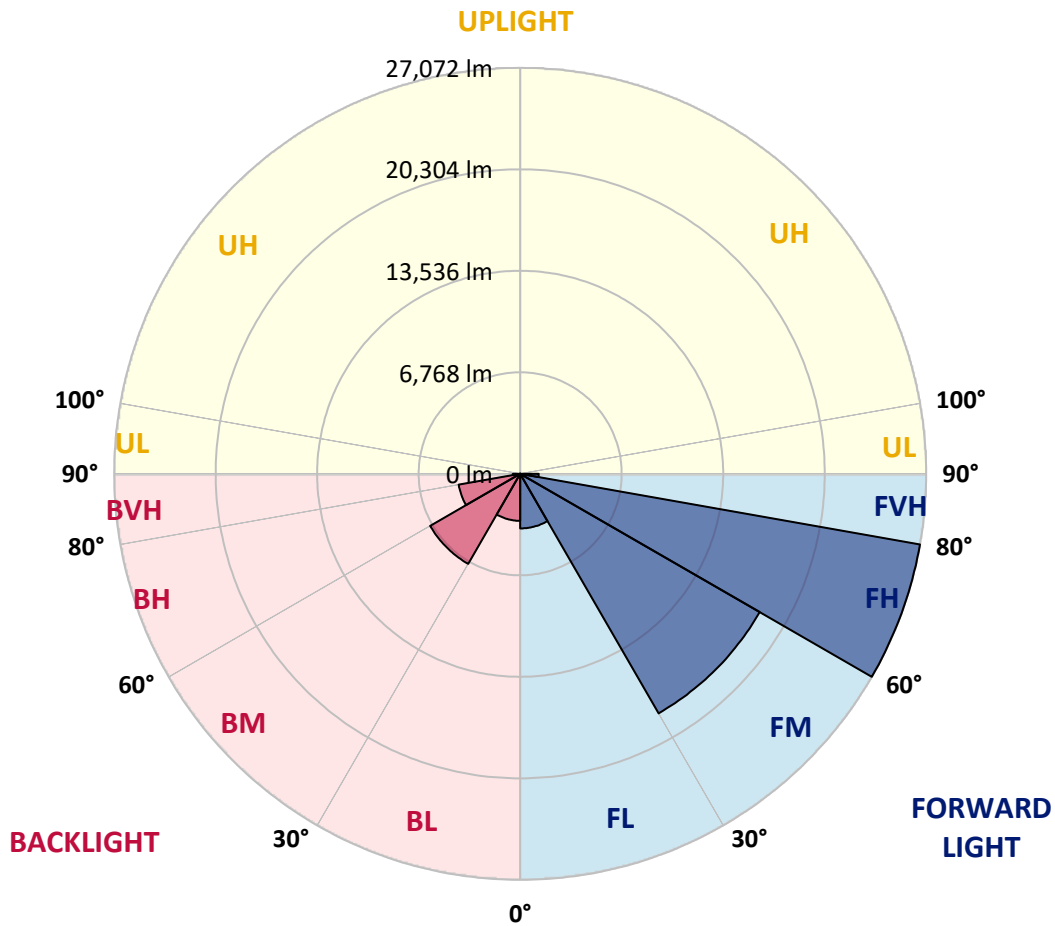
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3641.6	5.6			
FM (30°-60°)	18445.4	28.3			
FH (60°-80°)	27072.3	41.6			G5
FVH (80°-90°)	1239.3	1.9			G5
BL (0°-30°)	3134.3	4.8	B4/5000		
BM (30°-60°)	6931.7	10.6	B4/8500		
BH (60°-80°)	4167.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	488.2	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3
2.5°	6826.6	6871.2	6830.1	6792.3	6775.2	6730.6	6727.1	6699.7	6682.5	6634.5
5°	7303.5	7361.8	7293.2	7217.7	7149.1	7039.3	7025.6	6946.7	6857.5	6754.6
7.5°	7842.0	7893.5	7814.6	7701.4	7581.3	7399.5	7396.1	7252.0	7111.4	6936.4
10°	8312.0	8380.6	8274.3	8119.9	7969.0	7763.1	7739.1	7574.5	7396.1	7169.7
12.5°	8727.1	8775.1	8672.2	8483.5	8308.6	8102.8	8071.9	7890.1	7691.1	7433.8
15°	9056.4	9118.2	8981.0	8778.6	8593.3	8390.9	8363.5	8198.8	7999.8	7728.8
17.5°	9272.5	9324.0	9183.4	8956.9	8778.6	8610.5	8589.9	8452.7	8277.7	8003.3
20°	9354.9	9409.8	9262.3	9032.4	8867.8	8737.4	8727.1	8627.6	8507.6	8257.1
22.5°	9437.2	9488.7	9296.6	9056.4	8912.3	8830.0	8826.6	8761.4	8713.4	8507.6
25°	9770.0	9783.7	9526.4	9179.9	8974.1	8902.1	8898.6	8895.2	8915.8	8754.5
27.5°	10058.1	10054.7	9835.1	9509.2	9190.2	9039.3	9035.8	9070.1	9135.3	9001.5
30°	10480.1	10442.3	10181.6	9842.0	9550.4	9317.1	9296.6	9265.7	9317.1	9210.8
32.5°	11375.4	11255.4	10833.4	10229.6	9848.9	9670.5	9643.0	9450.9	9471.5	9406.3
35°	12658.4	12500.6	11938.0	10963.8	10219.4	9965.5	9951.8	9708.2	9667.1	9608.7
37.5°	14185.0	13989.4	13334.2	12027.2	10857.4	10308.5	10288.0	10068.4	9900.3	9838.6
40°	15718.4	15471.4	14929.4	13323.9	11797.4	10881.4	10816.3	10483.5	10291.4	10188.5
42.5°	17207.2	17001.4	16538.3	14778.4	12956.9	11718.5	11574.4	11004.9	10860.9	10764.8
45°	18524.5	18339.3	17999.7	16332.4	14315.3	12857.4	12716.7	11787.1	11742.5	11742.5
47.5°	19594.8	19553.7	19193.5	17917.3	15917.4	14154.1	13910.5	12874.5	12994.6	13179.8
50°	20781.8	20668.6	20284.3	19478.2	17800.7	15639.5	15440.5	14209.0	14658.4	15166.1
52.5°	21872.6	21934.4	21505.6	21104.2	19927.6	17296.4	16946.5	15783.6	16754.4	17594.9
55°	22994.4	22997.8	22877.8	22822.9	22157.4	19128.3	18744.1	17677.2	19220.9	20263.8
57.5°	24047.6	24054.4	24232.8	24716.5	24743.9	21241.4	20805.8	20003.0	21961.8	23025.3
60°	24987.5	25035.5	25522.7	26654.7	27018.3	23663.3	23251.7	22750.8	24795.4	25865.7
62.5°	25303.1	25478.1	26562.1	28171.0	29265.3	26634.1	26229.3	25930.9	27773.0	28767.9
65°	24768.0	25169.3	27265.3	29423.1	31577.4	30164.1	29762.7	29436.8	30867.3	31803.8
67.5°	23454.1	23972.1	27224.2	30737.0	34383.6	34411.0	34037.1	33272.1	34184.6	34544.8
70°	19992.8	20768.0	24826.3	31227.5	37604.8	40218.8	39858.6	37889.5	37495.0	35752.3
72.5°	12881.4	13924.3	18280.9	27189.9	38321.7	45683.5	45662.9	42057.5	38541.3	33405.9
75°	4699.7	5337.8	8493.8	17066.6	32167.5	45405.6	45539.4	41344.0	35182.8	25804.0
77.5°	1711.8	1873.0	2771.8	6559.0	19783.5	36431.5	36709.4	33052.5	25042.4	12950.0
80°	898.8	988.0	1420.2	2545.4	8476.7	21635.9	22071.6	19642.8	11769.9	3900.4
82.5°	497.4	538.6	795.9	1382.5	3818.1	9252.0	9512.7	7759.7	4140.6	1653.5
85°	267.6	284.7	373.9	754.7	1866.2	3207.5	3279.5	2319.0	1650.1	970.8
87.5°	78.9	96.1	123.5	240.1	730.7	720.4	737.5	459.7	651.8	490.6
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°
6569.3	0°	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3	6569.3
6620.8	2.5°	6600.2	6589.9	6552.2	6535.0	6514.5	6511.0	6528.2	6531.6	6535.0	6538.5
6696.3	5°	6662.0	6627.7	6593.4	6572.8	6579.6	6583.1	6617.4	6641.4	6658.5	6672.3
6836.9	7.5°	6782.0	6754.6	6696.3	6692.8	6703.1	6734.0	6778.6	6833.5	6864.4	6888.4
7018.7	10°	6960.4	6909.0	6840.3	6850.6	6871.2	6915.8	7008.4	7053.0	7104.5	7149.1
7241.7	12.5°	7142.2	7097.6	7018.7	7025.6	7059.9	7138.8	7228.0	7282.9	7317.2	7351.5
7481.8	15°	7378.9	7300.0	7214.3	7214.3	7276.0	7361.8	7402.9	7447.5	7468.1	7505.9
7739.1	17.5°	7622.5	7519.6	7406.4	7399.5	7475.0	7516.1	7540.2	7547.0	7553.9	7595.0
7989.6	20°	7866.1	7752.9	7591.6	7577.9	7595.0	7588.2	7584.8	7577.9	7588.2	7639.6
8246.8	22.5°	8106.2	7975.8	7752.9	7691.1	7643.1	7577.9	7574.5	7571.0	7577.9	7629.4
8524.7	25°	8387.5	8229.7	7931.2	7746.0	7584.8	7495.6	7505.9	7509.3	7516.1	7557.3
8812.9	27.5°	8692.8	8517.8	8095.9	7728.8	7437.2	7375.5	7358.3	7368.6	7392.7	7457.8
9101.0	30°	8998.1	8792.3	8246.8	7660.2	7252.0	7166.2	7111.4	7135.4	7210.8	7276.0
9351.4	32.5°	9276.0	9070.1	8366.9	7509.3	7015.3	6881.5	6809.5	6840.3	6915.8	6939.8
9629.3	35°	9601.9	9368.6	8418.4	7269.2	6758.0	6552.2	6456.1	6411.5	6449.3	6425.3
9955.2	37.5°	9965.5	9721.9	8411.5	6953.6	6456.1	6219.4	6085.6	5917.6	5838.7	5756.3
10435.5	40°	10504.1	10154.2	8329.2	6572.8	6082.2	5866.1	5626.0	5341.2	5162.8	5001.6
11210.8	42.5°	11238.2	10754.5	8178.2	6154.3	5660.3	5457.9	5132.0	4799.2	4517.9	4250.3
12387.4	45°	12332.5	11540.1	7989.6	5708.3	5204.0	5005.0	4651.7	4277.8	3958.8	3615.7
14058.0	47.5°	13910.5	12596.7	7811.2	5200.6	4723.8	4541.9	4222.9	3876.4	3499.1	3166.3
16473.1	50°	16078.6	14112.9	7646.5	4706.6	4250.3	4113.1	3859.3	3505.9	3125.2	2857.6
19303.2	52.5°	18836.7	16174.6	7577.9	4229.8	3807.8	3756.4	3554.0	3224.6	2864.4	2638.0
22603.3	55°	22003.0	18641.1	7577.9	3773.5	3420.2	3437.3	3296.7	2991.4	2679.2	2476.8
26006.4	57.5°	25234.5	21138.5	7440.7	3351.6	3090.8	3162.9	3073.7	2806.1	2524.8	2315.6
29584.3	60°	28212.1	23231.1	6884.9	2967.4	2799.3	2912.5	2854.1	2624.3	2281.3	2106.3
32575.7	62.5°	30500.3	24411.2	5814.6	2662.0	2559.1	2689.5	2658.6	2384.2	2236.7	2164.6
35031.9	65°	31646.0	24219.1	4445.9	2391.0	2356.7	2559.1	2493.9	2483.7	2367.0	2284.7
35831.2	67.5°	30942.8	22565.6	3224.6	2192.1	2240.1	2439.1	2689.5	2730.7	2514.5	2353.3
33580.8	70°	27858.8	19574.2	2401.3	2003.4	2092.6	2442.5	3066.8	2857.6	2466.5	2277.8
26932.6	72.5°	21193.4	14596.6	1862.7	1804.4	1900.5	2459.6	3234.9	2799.3	2329.3	2518.0
16778.4	75°	12119.8	8013.6	1495.7	1560.9	1660.3	2298.4	3149.2	2648.3	2222.9	2312.1
6648.2	77.5°	4620.8	3080.6	1235.0	1320.7	1334.5	2006.8	3011.9	2638.0	2116.6	2065.1
1993.1	80°	1602.0	1204.1	1022.3	1049.7	1032.6	1783.8	2888.5	2295.0	1732.4	1550.6
823.3	82.5°	655.2	600.3	809.6	775.3	734.1	1385.9	2332.7	1876.5	1416.8	1252.1
397.9	85°	284.7	380.8	535.2	470.0	425.4	960.5	1869.6	1588.3	1197.2	1032.6
130.4	87.5°	58.3	144.1	226.4	212.7	219.5	641.5	1327.6	1128.6	847.3	634.6
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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<u>180°</u>
6569.3
6552.2
6679.1
6895.2
7138.8
7365.2
7519.6
7608.8
7660.2
7663.7
7612.2
7523.0
7348.1
7025.6
6500.7
5807.8
5011.9
4226.3
3574.5
3128.6
2840.4
2620.9
2456.2
2281.3
2078.9
2140.6
2257.2
2325.9
2247.0
2497.4
2312.1
1883.3
1499.1
1238.4
1029.1
497.4
0.0

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