

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: P944738

Luminaire Tested: **GALN-SB9D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9D-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

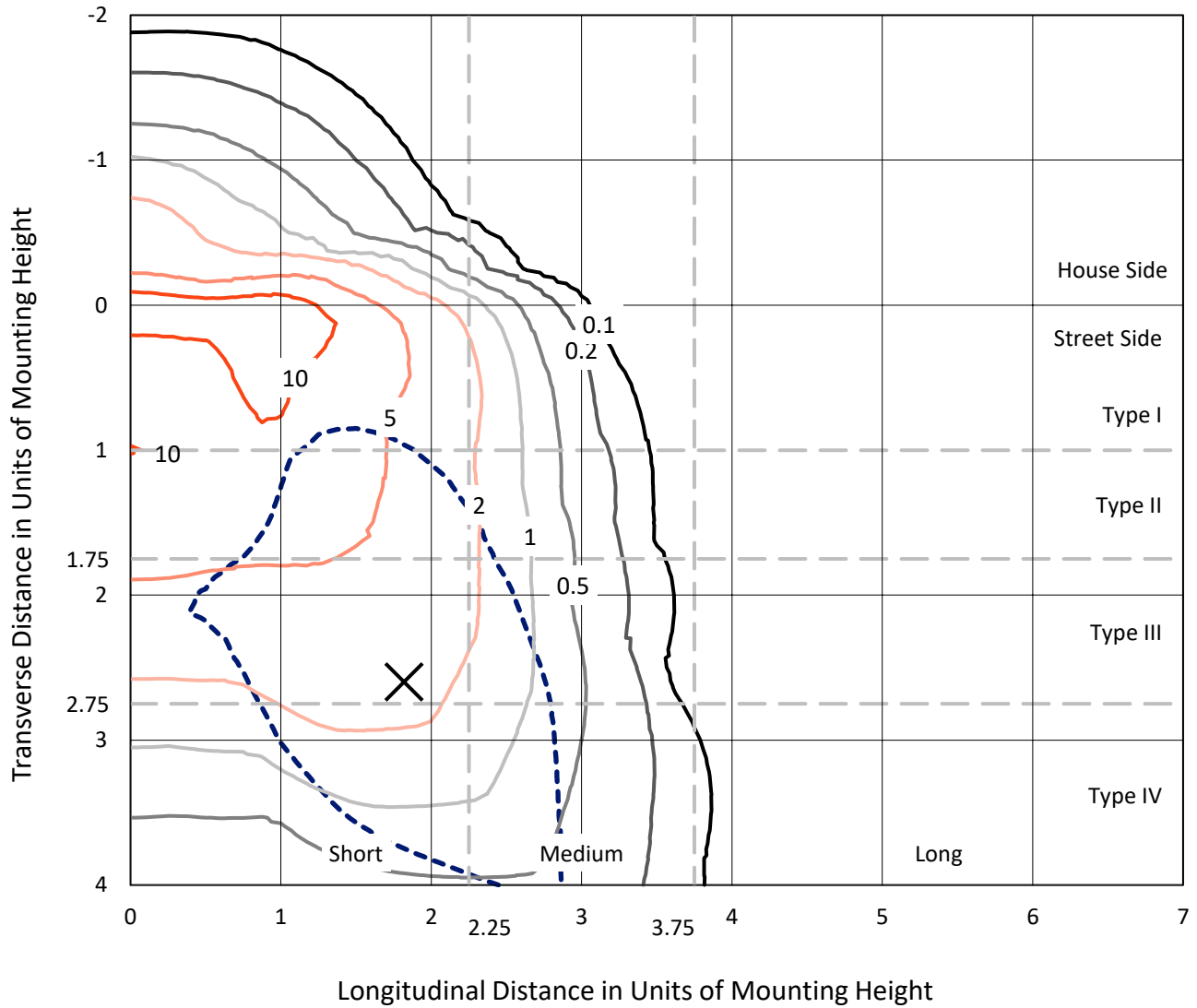
Lumens per Lamp: N/A  
Luminaire Lumens: 61024 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

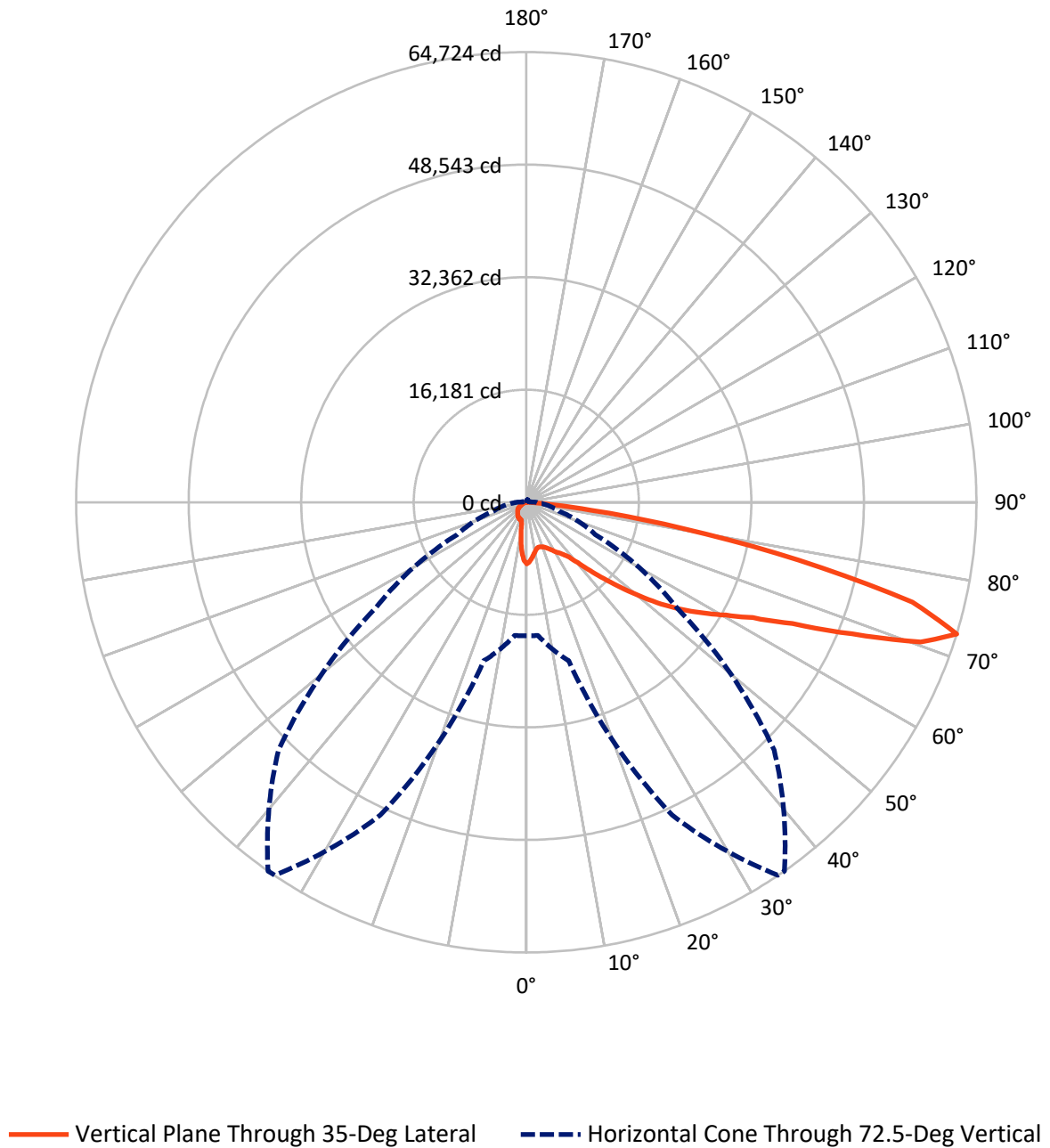
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6868.0	0.0	6868.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	54156.0	0.0	54156.0
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	61024.0	0.0	61024.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	726.8	1.2
10°-20°	1700.2	2.8
20°-30°	2761.9	4.5
30°-40°	4608.3	7.6
40°-50°	8719.0	14.3
50°-60°	13854.4	22.7
60°-70°	17138.8	28.1
70°-80°	10653.6	17.5
80°-90°	861.0	1.4
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°	61024.0	100.0
0°-180°	61024.0	100.0

**Coefficient of Utilization**



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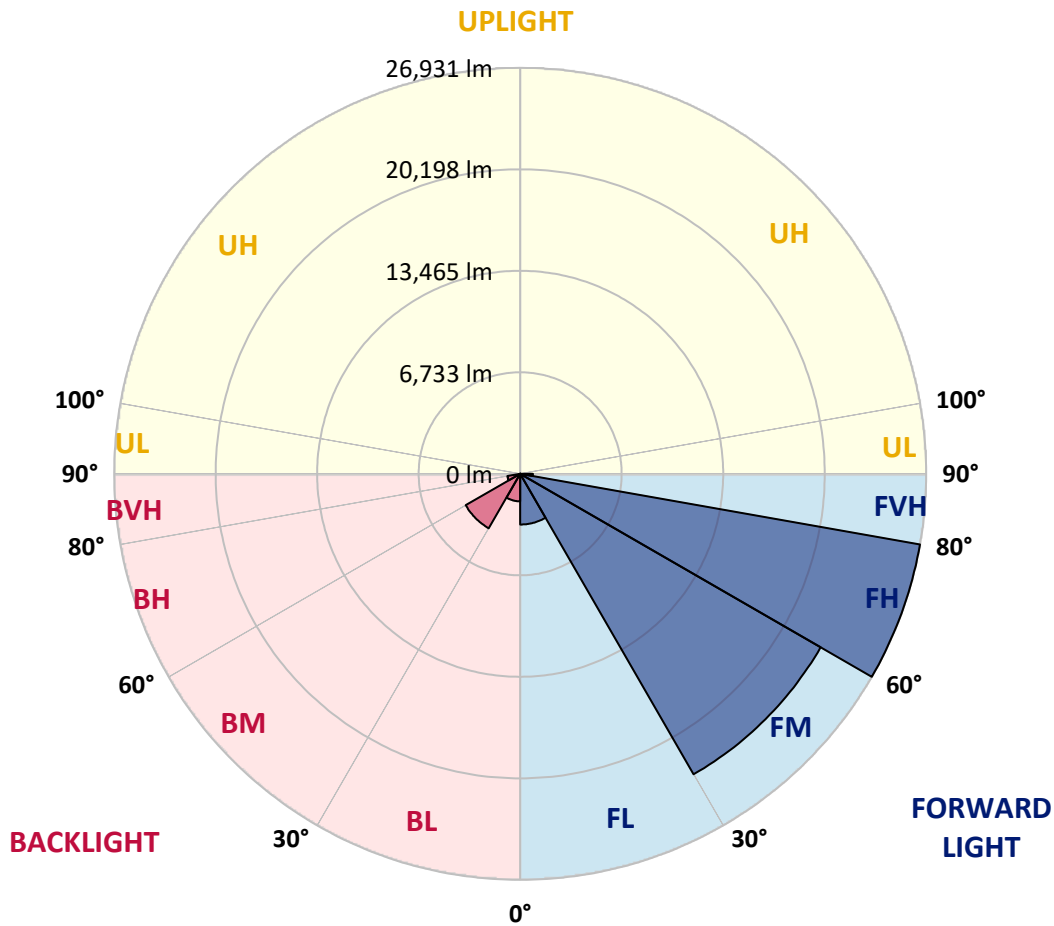
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3364.0	5.5			
FM (30°-60°)	23012.2	37.7			
FH (60°-80°)	26930.6	44.1			G5
FVH (80°-90°)	849.3	1.4			G5
BL (0°-30°)	1825.0	3.0	B3/2500		
BM (30°-60°)	4169.5	6.8	B3/5000		
BH (60°-80°)	861.8	1.4	B2/1000		G2/1000
BVH (80°-90°)	11.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4
2.5°	8450.9	8522.5	8535.9	8558.3	8558.3	8585.1	8629.8	8692.4	8795.2	8848.9
5°	7789.2	7842.8	7909.9	7963.6	8066.4	8079.8	8254.2	8424.1	8661.1	8840.0
7.5°	7122.9	7185.5	7275.0	7404.6	7538.8	7579.0	7842.8	8129.0	8504.6	8840.0
10°	6653.4	6657.9	6738.4	6868.1	7082.7	7131.9	7453.8	7860.7	8330.2	8786.3
12.5°	6389.6	6420.9	6456.7	6555.1	6760.8	6792.1	7136.3	7614.8	8155.8	8755.0
15°	6389.6	6412.0	6434.3	6483.5	6649.0	6675.8	6979.9	7458.3	8066.4	8768.4
17.5°	6456.7	6492.5	6474.6	6532.7	6707.1	6725.0	6993.3	7413.6	8061.9	8853.4
20°	6617.7	6644.5	6608.7	6644.5	6818.9	6854.7	7131.9	7498.5	8137.9	9000.9
22.5°	6872.5	6886.0	6801.0	6827.8	7006.7	7051.4	7373.3	7740.0	8321.3	9237.9
25°	7194.5	7221.3	7091.6	7122.9	7292.8	7346.5	7717.6	8102.2	8611.9	9564.3
27.5°	7565.6	7579.0	7467.2	7462.8	7681.9	7757.9	8133.5	8549.3	9000.9	9975.7
30°	7990.4	8030.6	7923.3	7905.4	8182.7	8245.3	8616.4	9099.3	9573.3	10592.7
32.5°	8325.7	8357.0	8294.4	8339.2	8620.9	8670.0	9202.1	9877.3	10472.0	11469.1
35°	8808.7	8826.5	8683.5	8763.9	9085.9	9211.1	10002.5	10968.3	11603.3	12569.1
37.5°	10557.0	10557.0	9948.9	9550.9	9859.4	9971.2	11098.0	12341.1	12998.4	14044.7
40°	12976.0	12935.8	12045.9	11232.1	11191.9	11411.0	12658.5	14071.5	14800.3	15815.3
42.5°	15556.0	15493.4	14281.6	13476.8	13342.6	13418.7	14460.5	16204.3	16946.6	17975.0
45°	17845.3	17827.5	16718.6	15636.5	15395.0	15636.5	16709.6	18699.4	19231.5	20313.6
47.5°	19763.6	19763.6	18954.3	18247.8	18122.6	18265.7	19754.6	21467.2	21418.0	22804.1
50°	21972.4	21954.6	21185.5	20881.4	21011.1	21212.3	23260.2	24382.5	23680.5	25250.0
52.5°	23519.5	23626.9	23363.1	23313.9	23975.6	24324.4	26819.4	27235.3	25706.1	27570.6
55°	24744.7	24869.9	25174.0	25518.3	26792.6	27248.7	30266.9	29940.5	27400.7	29582.8
57.5°	26479.6	26300.8	26770.3	27449.9	29511.2	30061.2	33607.0	32493.6	28764.5	31214.8
60°	28585.6	28612.5	28693.0	29551.5	32225.4	32931.8	36898.0	34908.2	29640.9	32216.4
62.5°	31116.5	31156.7	31322.1	32641.2	35869.5	36535.8	40403.5	36884.6	30043.3	31934.7
65°	30942.1	31112.0	32958.7	37470.3	41409.6	42066.9	44494.9	38270.7	29435.2	29359.2
67.5°	28187.7	28464.9	31554.6	43238.4	49762.2	50495.5	49440.2	38543.4	26810.5	22831.0
70°	24574.8	24673.2	28388.9	48425.2	59433.8	60176.1	53866.9	35543.1	20344.9	12734.5
72.5°	19191.2	19213.6	23573.2	49628.0	64683.2	64723.5	50392.6	26385.7	10941.5	4891.7
75°	13709.3	13575.2	15788.5	40247.0	56907.5	57363.6	37778.8	12376.8	4180.8	2311.7
77.5°	7351.0	7498.5	8933.9	23868.3	39312.5	40090.5	20613.1	3568.2	2128.4	1573.9
80°	2271.5	2396.7	3662.1	10928.1	22267.6	22737.1	7641.6	1587.3	1484.5	1122.3
82.5°	715.4	742.3	1708.1	4592.1	9242.4	9457.0	2213.3	898.8	1015.0	742.3
85°	205.7	210.2	760.1	1712.5	2284.9	2329.6	621.5	348.8	581.3	460.6
87.5°	22.4	71.5	286.2	286.2	201.2	196.7	67.1	76.0	165.4	58.1
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°
8844.4	0°	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4	8844.4
8884.7	2.5°	8862.3	8866.8	8808.7	8710.3	8603.0	8513.5	8401.8	8312.3	8249.7	8231.8
8965.2	5°	8924.9	8893.6	8728.2	8428.6	8070.9	7762.3	7418.0	7145.3	6966.4	6890.4
9050.1	7.5°	9018.8	8929.4	8567.2	7977.0	7292.8	6684.7	6067.7	5589.2	5285.2	5133.2
9130.6	10°	9099.3	8920.4	8298.9	7324.1	6277.8	5356.7	4525.1	3948.2	3626.3	3474.3
9224.5	12.5°	9175.3	8916.0	7950.1	6550.6	5133.2	4006.4	3232.8	2946.7	2857.2	2825.9
9376.5	15°	9318.4	8929.4	7511.9	5665.3	3993.0	3027.1	2745.4	2741.0	2758.9	2749.9
9609.0	17.5°	9515.1	8942.8	7015.6	4726.3	3080.8	2669.4	2656.0	2696.3	2723.1	2709.7
9899.7	20°	9770.0	8996.5	6488.0	3796.2	2647.1	2580.0	2611.3	2647.1	2669.4	2647.1
10288.7	22.5°	10127.7	9090.4	5911.2	3049.5	2508.5	2526.3	2553.2	2593.4	2615.8	2584.5
10785.0	25°	10565.9	9237.9	5343.3	2651.5	2441.4	2463.7	2504.0	2548.7	2575.5	2544.2
11411.0	27.5°	11133.8	9474.9	4820.2	2562.1	2374.3	2387.7	2445.9	2512.9	2548.7	2508.5
12300.8	30°	11956.5	9863.9	4368.6	2602.4	2334.1	2302.8	2383.3	2477.2	2517.4	2481.6
13512.6	32.5°	13047.5	10413.9	4091.3	2665.0	2316.2	2204.4	2280.4	2401.1	2468.2	2445.9
15095.4	35°	14478.4	11250.0	3984.0	2736.5	2302.8	2101.6	2155.2	2284.9	2401.1	2423.5
17089.7	37.5°	16213.3	12412.6	4015.3	2767.8	2262.5	2016.6	2043.4	2155.2	2307.2	2378.8
19334.3	40°	18185.2	13767.4	4194.2	2736.5	2217.8	1945.1	1949.5	2034.5	2168.6	2275.9
21748.9	42.5°	20219.7	15350.3	4525.1	2620.2	2177.6	1882.5	1869.0	1927.2	2016.6	2092.6
24159.0	45°	22155.8	16977.9	4851.5	2459.3	2128.4	1819.9	1788.6	1810.9	1828.8	1860.1
26506.4	47.5°	23846.0	18122.6	4757.6	2311.7	2061.3	1748.3	1694.7	1685.7	1632.1	1627.6
28603.5	50°	25013.0	18373.0	4225.5	2164.2	1962.9	1667.8	1582.9	1529.2	1435.3	1390.6
30173.0	52.5°	25384.1	17384.8	3451.9	2016.6	1802.0	1560.5	1439.8	1354.8	1238.6	1198.3
31076.2	55°	24892.3	15448.7	2758.9	1837.7	1578.4	1417.4	1283.3	1171.5	1077.6	1028.4
31174.6	57.5°	23689.5	12984.9	2182.0	1627.6	1341.4	1256.5	1122.3	1010.5	930.1	880.9
30083.6	60°	21695.2	10311.0	1726.0	1377.2	1144.7	1082.1	943.5	871.9	800.4	742.3
27266.6	62.5°	18668.1	7359.9	1354.8	1091.0	956.9	885.3	804.9	751.2	666.2	585.8
22200.5	65°	14567.8	4502.7	1046.3	800.4	769.1	733.3	684.1	634.9	532.1	451.6
14482.9	67.5°	9188.7	2132.9	746.7	603.6	608.1	590.2	567.9	527.6	451.6	380.1
6488.0	70°	4046.6	1032.9	491.9	460.6	451.6	451.6	469.5	456.1	384.5	317.5
2253.6	72.5°	1377.2	554.5	366.7	348.8	326.4	321.9	393.5	380.1	308.5	245.9
1122.3	75°	719.9	371.1	268.3	250.4	196.7	237.0	313.0	295.1	219.1	161.0
742.3	77.5°	469.5	263.8	183.3	161.0	111.8	156.5	232.5	205.7	129.7	80.5
487.4	80°	295.1	174.4	107.3	76.0	53.7	85.0	125.2	89.4	49.2	17.9
286.2	82.5°	156.5	89.4	40.2	26.8	22.4	26.8	31.3	22.4	8.9	0.0
147.6	85°	62.6	31.3	13.4	8.9	4.5	0.0	8.9	4.5	0.0	0.0
26.8	87.5°	22.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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<u>180°</u>
8844.4
8263.1
6917.3
5155.5
3478.7
2817.0
2745.4
2705.2
2642.6
2580.0
2539.8
2508.5
2477.2
2445.9
2423.5
2396.7
2311.7
2123.9
1878.0
1623.1
1395.1
1193.9
1028.4
871.9
728.8
572.3
438.2
371.1
304.1
232.5
147.6
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13.4
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