

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: P956919

Luminaire Tested: **GALN-SB9B-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36342 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

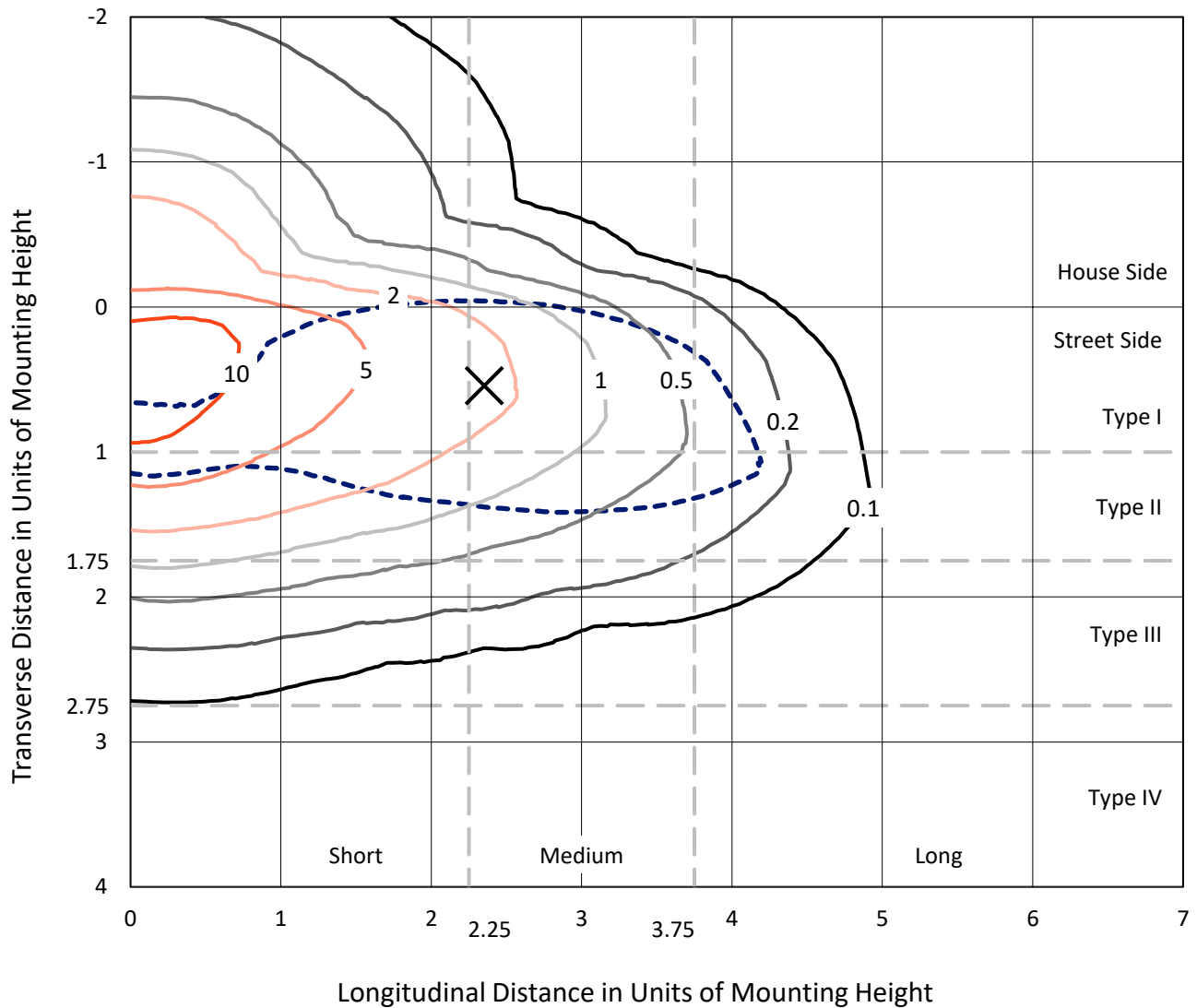
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

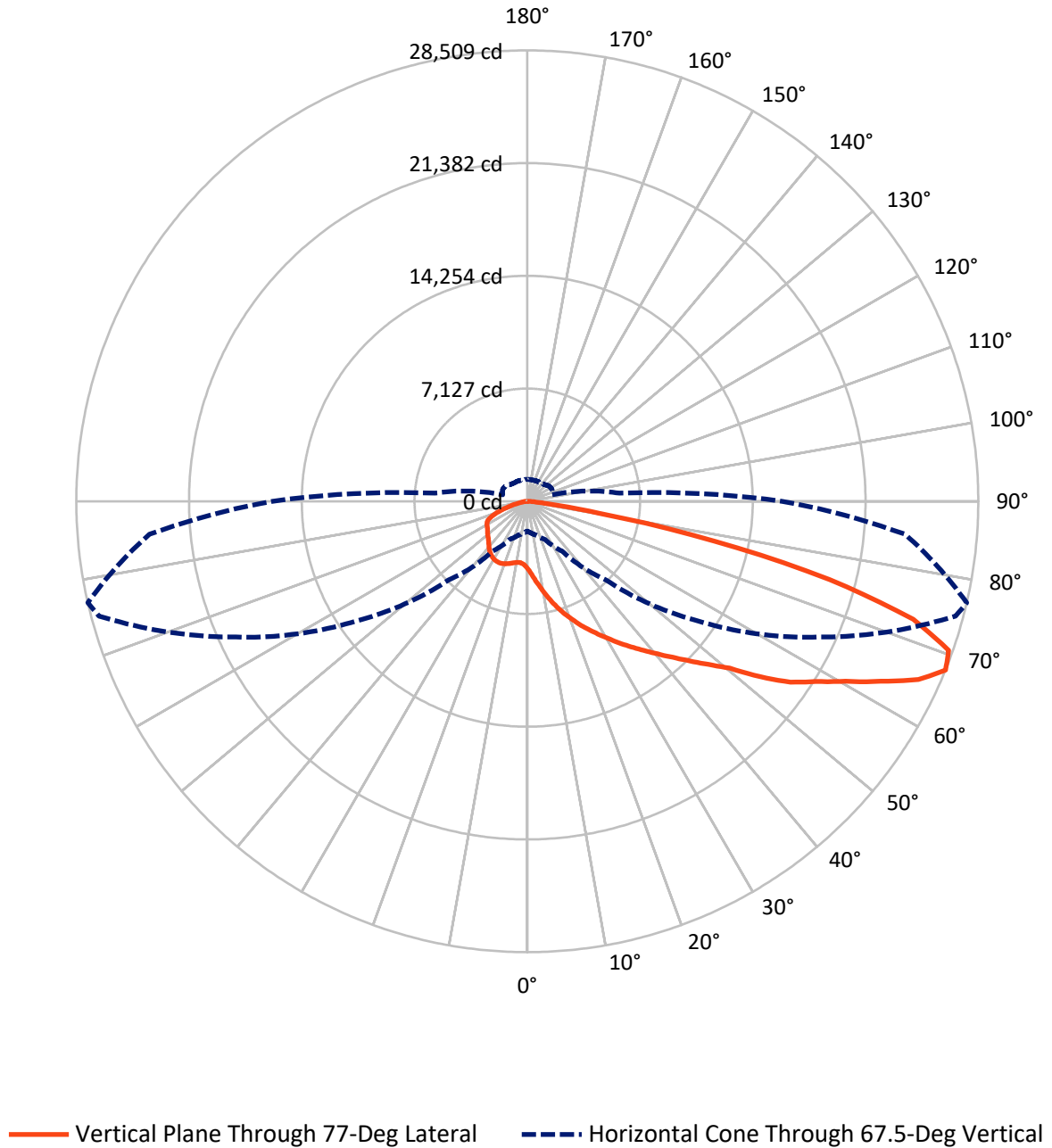
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	6874.5	0.0	6874.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29467.6	0.0	29467.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	36342.0	0.0	36342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	1.3
10°-20°	1642.0	4.5
20°-30°	3100.2	8.5
30°-40°	4994.4	13.7
40°-50°	6831.5	18.8
50°-60°	7706.0	21.2
60°-70°	7192.5	19.8
70°-80°	3942.7	10.8
80°-90°	475.6	1.3
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°	36342.0	100.0
0°-180°	36342.0	100.0

Coefficient of Utilization



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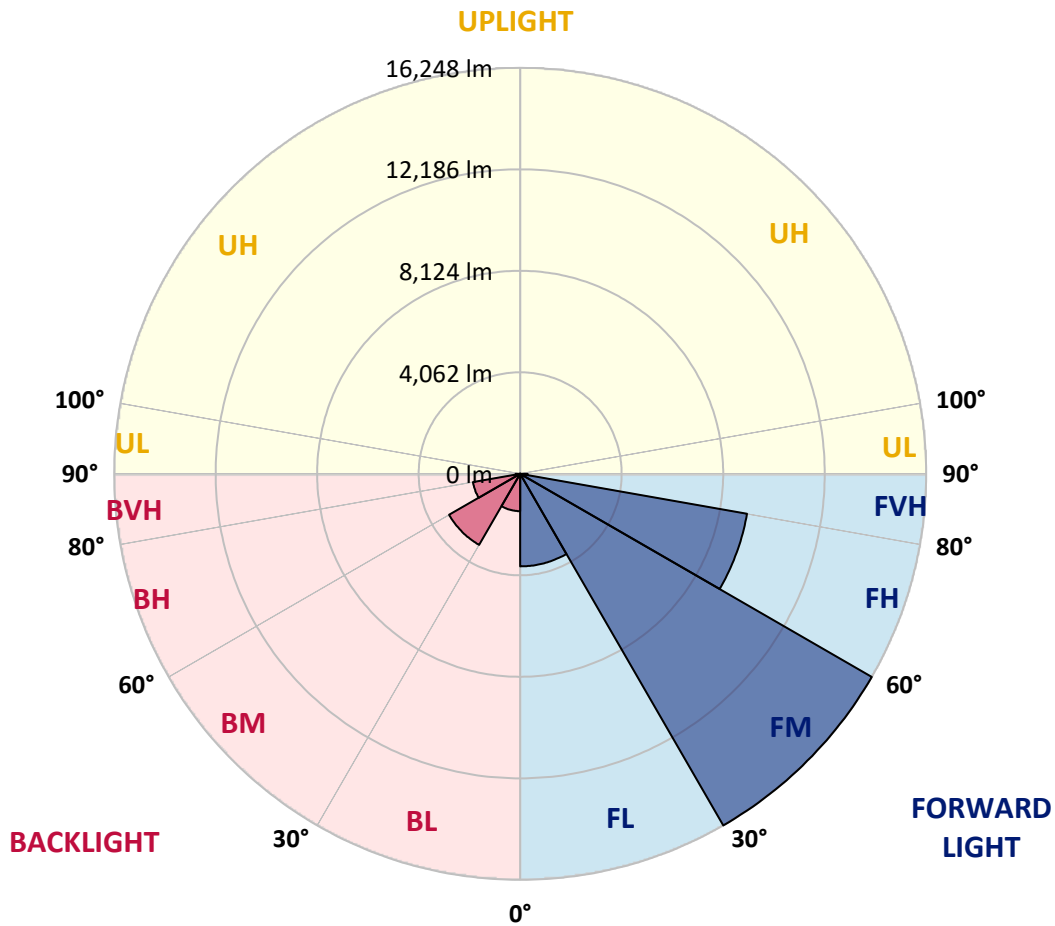
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3704.6	10.2			
FM (30°-60°)	16248.1	44.7			
FH (60°-80°)	9217.4	25.4			G4/12000
FVH (80°-90°)	297.4	0.8			G3/500
BL (0°-30°)	1494.7	4.1	B3/2500		
BM (30°-60°)	3283.8	9.0	B3/5000		
BH (60°-80°)	1917.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	178.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0
2.5°	5339.0	5376.5	5329.6	5329.6	5172.0	5089.5	4931.9	4811.8	4596.1	4558.6
5°	6310.7	6357.6	6292.0	6263.8	6078.1	5907.4	5642.9	5382.1	4997.5	4958.1
7.5°	7063.0	7123.0	7064.8	7034.8	6869.7	6678.4	6368.9	6004.9	5462.8	5385.9
10°	7676.4	7685.8	7667.0	7678.3	7548.8	7391.3	7074.2	6650.3	5973.0	5868.0
12.5°	8023.5	8066.6	8104.1	8171.7	8149.1	8051.6	7766.5	7259.9	6513.3	6378.2
15°	8186.7	8261.7	8346.1	8501.8	8627.5	8651.9	8434.3	7914.7	7063.0	6899.8
17.5°	8244.8	8316.1	8449.3	8674.4	8944.6	9126.5	9029.0	8550.6	7607.0	7419.4
20°	8539.3	8560.0	8640.6	8854.5	9147.2	9449.2	9522.3	9162.2	8145.4	7933.4
22.5°	9169.7	9128.4	9150.9	9248.5	9458.6	9751.2	9918.2	9702.4	8698.8	8454.9
25°	10210.8	10090.8	9970.7	9858.1	9965.1	10130.2	10319.6	10242.7	9278.5	8968.9
27.5°	11525.9	11379.5	11115.0	10745.5	10616.0	10674.2	10758.6	10743.6	9815.0	9501.7
30°	12820.3	12649.6	12334.4	11799.8	11458.3	11304.5	11240.7	11197.6	10398.4	10064.5
32.5°	13853.9	13718.9	13409.3	12810.9	12315.6	12053.0	11841.0	11687.2	11008.1	10674.2
35°	14758.1	14632.4	14277.9	13625.1	13086.7	12807.1	12529.5	12201.2	11642.2	11304.5
37.5°	15583.6	15457.9	14972.0	14292.9	13750.7	13557.5	13309.9	12752.7	12278.1	11959.2
40°	16105.1	16076.9	15623.0	14853.8	14291.0	14195.4	14112.8	13392.4	12983.5	12687.1
42.5°	16238.3	16300.2	15940.0	15307.8	14771.3	14694.4	14887.6	14116.6	13775.1	13491.9
45°	15917.5	16095.7	15859.3	15429.7	15112.7	15071.4	15574.2	14908.2	14651.2	14392.3
47.5°	15105.2	15407.2	15309.7	15249.6	15204.6	15382.8	16178.2	15748.6	15643.6	15418.5
50°	13465.6	14037.8	14208.5	14587.4	15022.6	15624.8	16727.9	16666.0	16802.9	16575.9
52.5°	10631.0	11418.9	12409.4	13358.7	14463.6	15544.2	17331.9	17982.9	18560.7	18436.9
55°	8775.7	9130.3	9891.9	11632.8	13379.3	15204.6	17604.0	19046.6	20305.3	20194.7
57.5°	7350.0	7667.0	8136.0	9589.9	11739.7	14433.6	17772.8	19695.7	21500.3	21489.1
60°	5821.1	6156.9	6637.1	7667.0	9824.4	13101.7	17735.3	20434.8	23025.5	23119.3
62.5°	4095.2	4464.8	4997.5	5958.0	7867.8	11375.8	16969.9	20969.4	24820.8	25075.9
65°	2692.0	2935.9	3337.3	4166.5	5862.4	9156.5	15508.5	21038.8	26741.7	27173.2
67.5°	1887.2	1981.0	2217.4	2667.6	3864.5	7021.7	13180.5	20320.3	28023.0	28508.9
70°	1472.6	1519.5	1639.6	1819.7	2427.5	4721.8	10100.1	18451.9	27749.1	28255.6
72.5°	1271.9	1316.9	1361.9	1384.5	1628.3	2915.2	6841.6	15427.9	25169.7	25513.0
75°	1153.7	1165.0	1202.5	1195.0	1241.9	1891.0	3948.9	11240.7	19858.9	19740.7
77.5°	969.9	984.9	1046.8	1037.4	1103.1	1292.5	2050.4	7254.3	12874.7	12071.8
80°	821.7	829.2	896.7	885.5	958.6	936.1	1046.8	3697.5	5460.9	4626.1
82.5°	285.1	352.7	684.7	705.4	731.6	566.5	604.1	1508.3	1667.7	1277.5
85°	138.8	148.2	348.9	495.3	493.4	285.1	294.5	538.4	525.3	412.7
87.5°	22.5	28.1	41.3	193.2	153.8	75.0	101.3	105.1	108.8	93.8
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°
4264.0	0°	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0	4264.0
4416.0	2.5°	4310.9	4217.1	4020.2	3838.2	3695.6	3558.7	3481.8	3416.1	3378.6	3371.1
4622.4	5°	4427.3	4234.0	3875.7	3573.7	3376.7	3230.4	3153.5	3104.7	3080.3	3065.3
4900.0	7.5°	4594.2	4310.9	3800.7	3457.4	3251.0	3146.0	3106.6	3099.1	3097.2	3099.1
5235.8	10°	4825.0	4436.6	3793.2	3429.2	3256.7	3198.5	3196.6	3198.5	3206.0	3207.9
5601.6	12.5°	5074.5	4566.1	3823.2	3453.6	3327.9	3296.1	3290.4	3288.5	3294.2	3297.9
5971.2	15°	5346.5	4736.8	3873.8	3506.2	3406.7	3373.0	3367.3	3356.1	3354.2	3352.3
6359.5	17.5°	5626.0	4905.6	3930.1	3562.4	3457.4	3410.5	3389.9	3363.6	3343.0	3337.3
6760.9	20°	5909.3	5072.6	3969.5	3590.6	3461.1	3395.5	3354.2	3309.2	3273.5	3252.9
7166.1	22.5°	6211.3	5247.0	3993.9	3583.1	3427.4	3337.3	3262.3	3209.8	3155.4	3119.7
7575.1	25°	6505.8	5399.0	3992.0	3543.7	3361.7	3247.3	3151.6	3084.1	3009.0	2971.5
7997.2	27.5°	6789.1	5535.9	3945.1	3474.3	3267.9	3140.3	3025.9	2945.2	2872.1	2836.4
8423.0	30°	7081.7	5650.4	3872.0	3373.0	3157.2	3016.5	2890.8	2821.4	2755.8	2722.0
8873.3	32.5°	7372.5	5755.4	3768.8	3247.3	3029.7	2894.6	2770.8	2707.0	2667.6	2667.6
9357.3	35°	7680.2	5828.6	3631.8	3101.0	2894.6	2765.2	2667.6	2630.1	2626.3	2603.8
9869.4	37.5°	8004.7	5875.5	3464.9	2950.9	2761.4	2639.5	2609.5	2564.4	2526.9	2478.1
10432.2	40°	8346.1	5922.4	3264.2	2795.2	2620.7	2553.2	2540.0	2480.0	2373.1	2253.0
11070.0	42.5°	8760.7	5954.3	3055.9	2639.5	2472.5	2450.0	2468.8	2365.6	2194.9	2104.8
11839.2	45°	9241.0	6006.8	2864.6	2485.6	2320.6	2320.6	2399.3	2264.3	2123.6	2067.3
12717.1	47.5°	9863.8	6128.7	2686.4	2316.8	2179.9	2217.4	2245.5	2142.3	2063.6	1994.1
13786.4	50°	10764.2	6421.4	2502.5	2146.1	2072.9	2148.0	2108.6	2048.5	1956.6	1900.3
15486.0	52.5°	11882.3	6594.0	2339.3	1992.3	1981.0	2056.0	1999.8	1943.5	1874.1	1799.0
16774.8	55°	12643.9	6625.9	2202.4	1879.7	1919.1	1911.6	1891.0	1840.3	1802.8	1703.4
18046.7	57.5°	13495.6	6689.7	2089.8	1812.2	1879.7	1797.2	1789.7	1746.5	1697.7	1630.2
19598.1	60°	14514.3	6789.1	1992.3	1785.9	1845.9	1722.1	1684.6	1667.7	1618.9	1585.2
21464.7	62.5°	15624.8	6879.1	1892.8	1789.7	1806.5	1649.0	1592.7	1587.1	1557.0	1545.8
23216.8	65°	16382.7	6633.4	1769.0	1785.9	1744.6	1573.9	1502.6	1500.8	1476.4	1472.6
23976.6	67.5°	16118.2	5854.9	1602.1	1733.4	1680.9	1498.9	1420.1	1412.6	1380.7	1382.6
23183.1	70°	14793.8	4744.3	1371.3	1603.9	1602.1	1431.4	1333.8	1309.4	1266.3	1273.8
20157.1	72.5°	12310.0	3515.5	1061.8	1388.2	1476.4	1369.4	1234.4	1195.0	1140.6	1148.1
14880.1	75°	8890.2	2390.0	772.9	1056.2	1285.0	1296.3	1136.8	1069.3	1003.6	1014.9
8282.3	77.5°	4549.2	1354.4	568.4	727.9	1009.3	1178.1	1048.7	958.6	943.6	1048.7
2388.1	80°	1483.9	679.1	394.0	510.3	662.2	964.2	919.2	816.0	812.3	836.7
500.9	82.5°	442.7	287.0	253.3	335.8	365.8	739.1	793.5	617.2	530.9	559.0
167.0	85°	152.0	138.8	144.4	167.0	174.5	433.3	555.3	409.0	386.4	425.8
37.5	87.5°	35.6	48.8	41.3	37.5	37.5	105.1	215.7	170.7	236.4	157.6
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>
4264.0
3371.1
3063.4
3104.7
3209.8
3299.8
3350.5
3343.0
3260.4
3121.6
2971.5
2834.6
2720.1
2669.5
2598.2
2470.6
2236.1
2106.7
2076.7
1992.3
1894.7
1784.0
1705.2
1607.7
1594.6
1545.8
1470.7
1382.6
1281.3
1146.2
1018.6
1033.7
718.5
577.8
420.2
152.0
0.0

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