

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: P949653

Luminaire Tested: **GALN-SB4B-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949653
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-SB4B-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20655 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

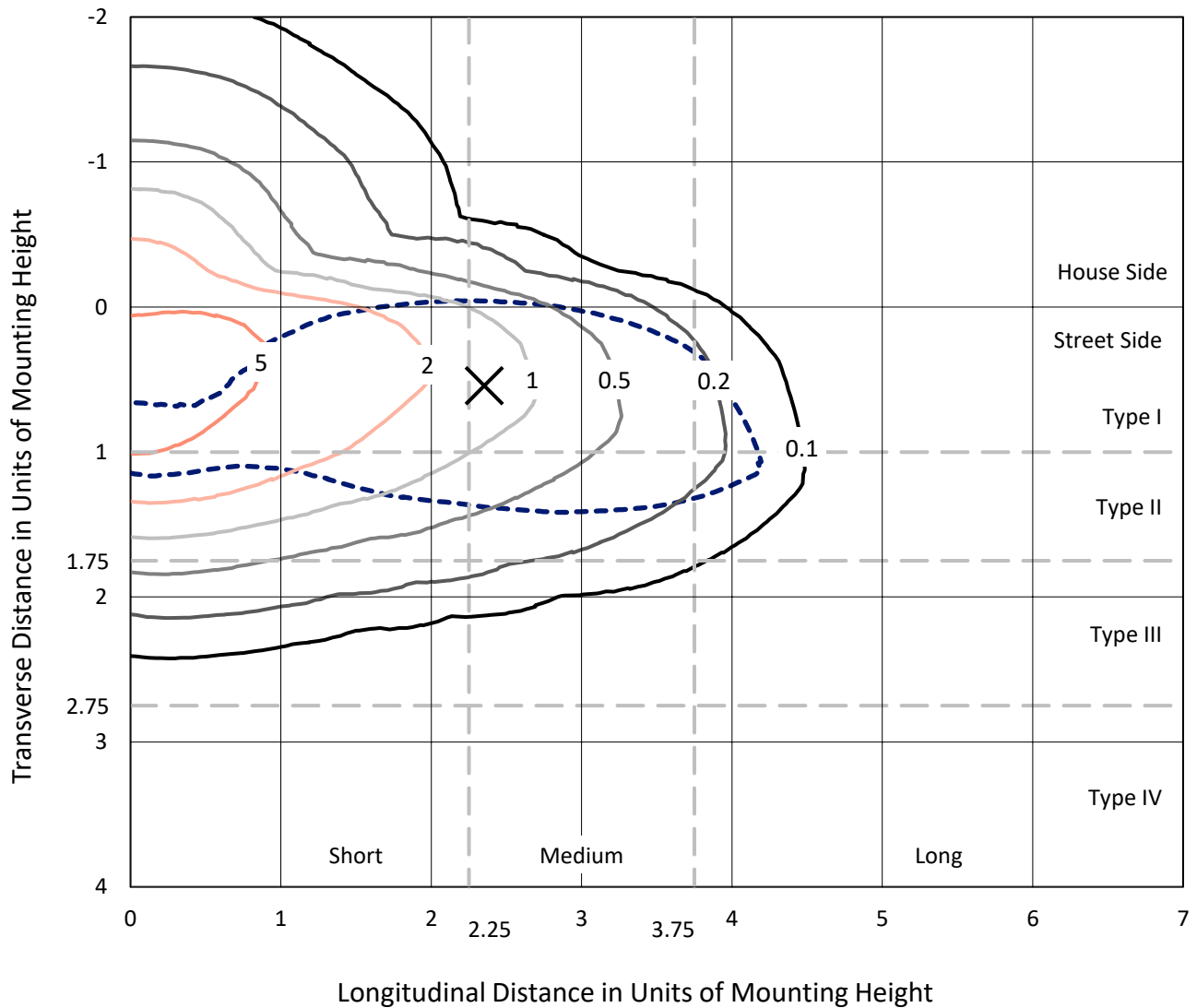
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

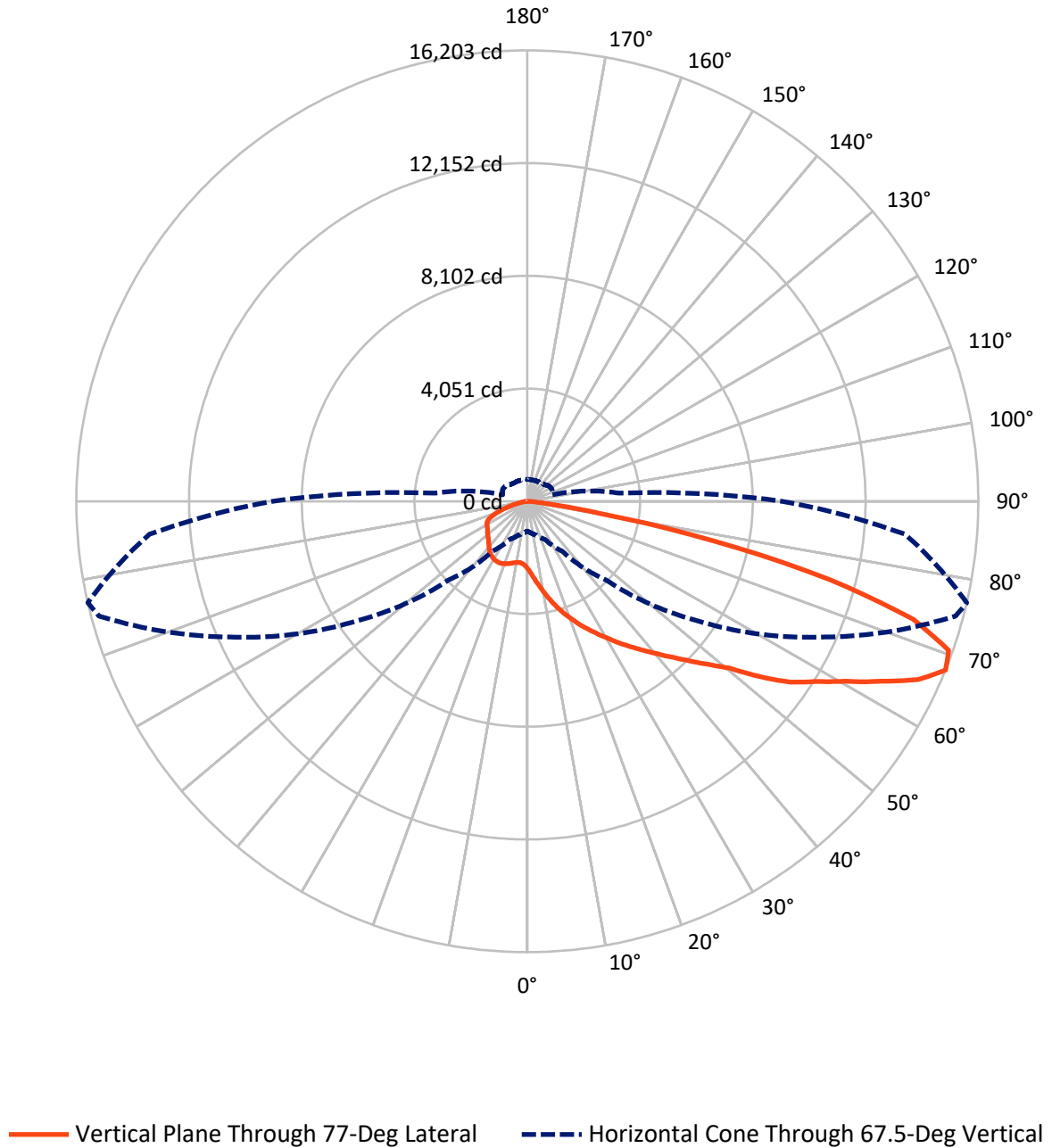
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3907.1	0.0	3907.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16747.9	0.0	16747.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	20655.0	0.0	20655.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.3
10°-20°	933.2	4.5
20°-30°	1762.0	8.5
30°-40°	2838.6	13.7
40°-50°	3882.7	18.8
50°-60°	4379.7	21.2
60°-70°	4087.9	19.8
70°-80°	2240.8	10.8
80°-90°	270.3	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°	20655.0	100.0
0°-180°	20655.0	100.0



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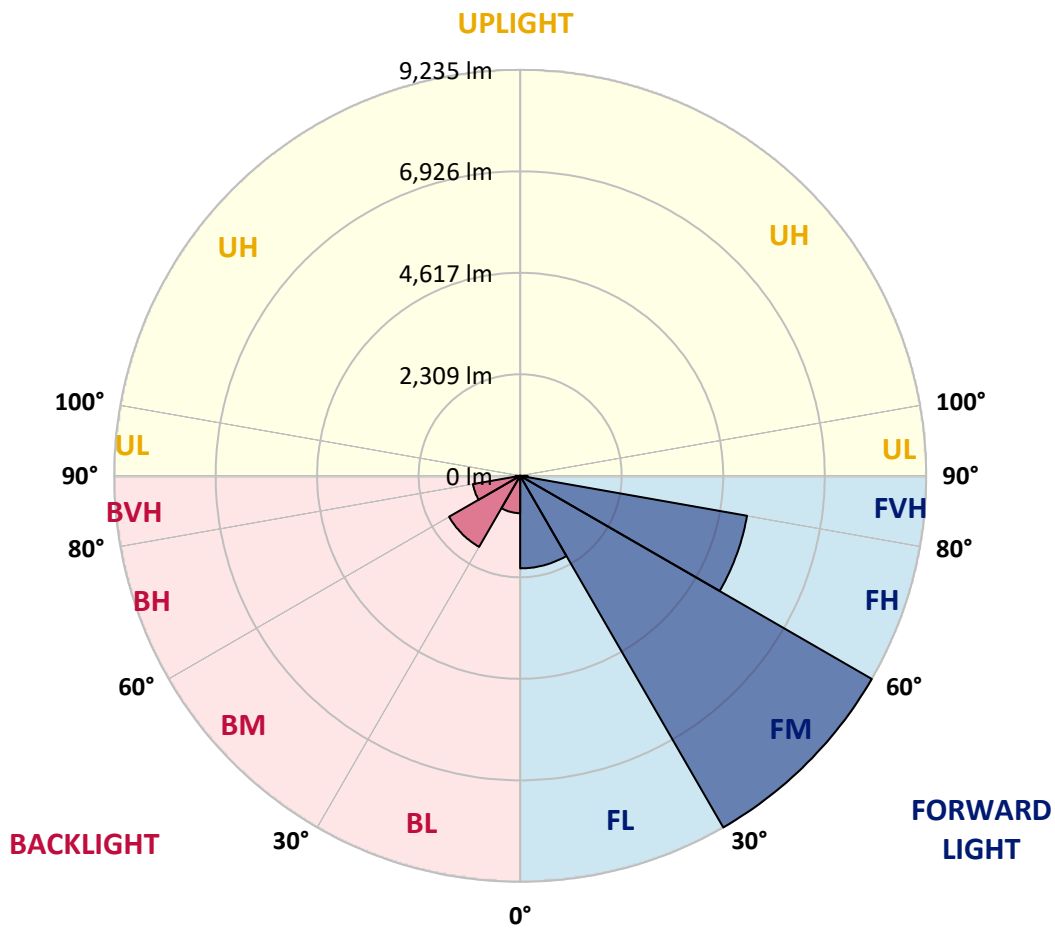
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.5	10.2			
FM (30°-60°)	9234.6	44.7			
FH (60°-80°)	5238.7	25.4			G3/7500
FVH (80°-90°)	169.0	0.8			G2/225
BL (0°-30°)	849.5	4.1	B2/1000		
BM (30°-60°)	1866.3	9.0	B2/2500		
BH (60°-80°)	1090.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	101.3	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5
2.5°	3034.4	3055.7	3029.1	3029.1	2939.5	2892.6	2803.0	2734.8	2612.2	2590.9
5°	3586.7	3613.4	3576.0	3560.0	3454.5	3357.5	3207.1	3058.9	2840.4	2818.0
7.5°	4014.2	4048.4	4015.3	3998.3	3904.4	3795.7	3619.7	3412.9	3104.8	3061.1
10°	4362.9	4368.2	4357.6	4364.0	4290.4	4200.8	4020.6	3779.7	3394.8	3335.1
12.5°	4560.1	4584.7	4606.0	4644.4	4631.6	4576.1	4414.1	4126.2	3701.8	3625.1
15°	4652.9	4695.5	4743.5	4832.0	4903.5	4917.3	4793.6	4498.3	4014.2	3921.5
17.5°	4686.0	4726.5	4802.2	4930.1	5083.6	5187.1	5131.6	4859.7	4323.4	4216.8
20°	4853.3	4865.1	4910.9	5032.5	5198.8	5370.5	5412.0	5207.3	4629.4	4509.0
22.5°	5211.6	5188.1	5200.9	5256.4	5375.8	5542.1	5637.0	5514.4	4944.0	4805.4
25°	5803.3	5735.1	5666.9	5602.9	5663.7	5757.5	5865.2	5821.5	5273.4	5097.5
27.5°	6550.7	6467.6	6317.2	6107.2	6033.6	6066.7	6114.7	6106.1	5578.4	5400.3
30°	7286.4	7189.4	7010.3	6706.4	6512.4	6424.9	6388.7	6364.1	5909.9	5720.2
32.5°	7873.9	7797.1	7621.2	7281.1	6999.6	6850.3	6729.9	6642.4	6256.5	6066.7
35°	8387.8	8316.4	8114.9	7743.8	7437.8	7278.9	7121.2	6934.6	6616.8	6424.9
37.5°	8856.9	8785.5	8509.3	8123.4	7815.2	7705.4	7564.7	7248.0	6978.3	6797.0
40°	9153.3	9137.3	8879.3	8442.2	8122.3	8067.9	8021.0	7611.6	7379.2	7210.7
42.5°	9229.0	9264.2	9059.5	8700.2	8395.3	8351.5	8461.4	8023.2	7829.1	7668.1
45°	9046.7	9148.0	9013.7	8769.5	8589.3	8565.9	8851.6	8473.1	8327.0	8179.9
47.5°	8585.0	8756.7	8701.3	8667.1	8641.6	8742.8	9194.9	8950.8	8891.0	8763.1
50°	7653.2	7978.4	8075.4	8290.8	8538.1	8880.4	9507.3	9472.1	9550.0	9420.9
52.5°	6042.2	6490.0	7052.9	7592.4	8220.4	8834.5	9850.6	10220.6	10549.0	10478.6
55°	4987.7	5189.2	5622.1	6611.5	7604.1	8641.6	10005.2	10825.1	11540.6	11477.6
57.5°	4177.4	4357.6	4624.1	5450.4	6672.3	8203.3	10101.2	11194.0	12219.7	12213.3
60°	3308.4	3499.3	3772.2	4357.6	5583.7	7446.3	10079.9	11614.1	13086.5	13139.9
62.5°	2327.5	2537.6	2840.4	3386.3	4471.6	6465.4	9644.8	11918.0	14106.9	14251.9
65°	1530.0	1668.6	1896.8	2368.0	3331.9	5204.1	8814.3	11957.4	15198.7	15443.9
67.5°	1072.6	1125.9	1260.2	1516.1	2196.4	3990.8	7491.1	11549.1	15926.9	16203.0
70°	837.0	863.6	931.9	1034.2	1379.7	2683.6	5740.4	10487.1	15771.2	16059.1
72.5°	722.9	748.5	774.1	786.9	925.5	1656.9	3888.4	8768.4	14305.2	14500.3
75°	655.7	662.1	683.4	679.2	705.8	1074.7	2244.4	6388.7	11286.8	11219.6
77.5°	551.2	559.8	594.9	589.6	626.9	734.6	1165.4	4123.0	7317.3	6861.0
80°	467.0	471.3	509.6	503.2	544.8	532.0	594.9	2101.5	3103.7	2629.2
82.5°	162.1	200.4	389.2	400.9	415.8	322.0	343.3	857.2	947.9	726.1
85°	78.9	84.2	198.3	281.5	280.4	162.1	167.4	306.0	298.5	234.6
87.5°	12.8	16.0	23.5	109.8	87.4	42.6	57.6	59.7	61.8	53.3
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°
2423.5	0°	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5	2423.5
2509.8	2.5°	2450.1	2396.8	2284.9	2181.4	2100.4	2022.6	1978.9	1941.6	1920.2	1916.0
2627.1	5°	2516.2	2406.4	2202.8	2031.1	1919.2	1836.0	1792.3	1764.6	1750.7	1742.2
2784.9	7.5°	2611.1	2450.1	2160.1	1965.0	1847.7	1788.0	1765.6	1761.4	1760.3	1761.4
2975.8	10°	2742.3	2521.6	2155.9	1949.0	1850.9	1817.9	1816.8	1817.9	1822.1	1823.2
3183.7	12.5°	2884.1	2595.1	2172.9	1962.9	1891.4	1873.3	1870.1	1869.0	1872.2	1874.4
3393.7	15°	3038.7	2692.2	2201.7	1992.7	1936.2	1917.0	1913.8	1907.4	1906.4	1905.3
3614.4	17.5°	3197.5	2788.1	2233.7	2024.7	1965.0	1938.4	1926.6	1911.7	1900.0	1896.8
3842.6	20°	3358.5	2883.0	2256.1	2040.7	1967.1	1929.8	1906.4	1880.8	1860.5	1848.8
4072.9	22.5°	3530.2	2982.2	2269.9	2036.4	1947.9	1896.8	1854.1	1824.3	1793.3	1773.1
4305.3	25°	3697.6	3068.5	2268.9	2014.1	1910.6	1845.6	1791.2	1752.8	1710.2	1688.9
4545.2	27.5°	3858.6	3146.4	2242.2	1974.6	1857.3	1784.8	1719.8	1673.9	1632.4	1612.1
4787.2	30°	4024.9	3211.4	2200.6	1917.0	1794.4	1714.5	1643.0	1603.6	1566.2	1547.1
5043.1	32.5°	4190.2	3271.1	2142.0	1845.6	1721.9	1645.1	1574.8	1538.5	1516.1	1516.1
5318.2	35°	4365.0	3312.7	2064.2	1762.4	1645.1	1571.6	1516.1	1494.8	1492.7	1479.9
5609.3	37.5°	4549.5	3339.3	1969.3	1677.1	1569.4	1500.1	1483.1	1457.5	1436.2	1408.5
5929.1	40°	4743.5	3366.0	1855.2	1588.6	1489.5	1451.1	1443.6	1409.5	1348.7	1280.5
6291.6	42.5°	4979.2	3384.1	1736.8	1500.1	1405.3	1392.5	1403.1	1344.5	1247.5	1196.3
6728.8	45°	5252.1	3414.0	1628.1	1412.7	1318.9	1318.9	1363.7	1286.9	1206.9	1175.0
7227.8	47.5°	5606.1	3483.3	1526.8	1316.8	1238.9	1260.2	1276.2	1217.6	1172.8	1133.4
7835.5	50°	6117.9	3649.6	1422.3	1219.7	1178.2	1220.8	1198.4	1164.3	1112.0	1080.1
8801.5	52.5°	6753.3	3747.7	1329.6	1132.3	1125.9	1168.6	1136.6	1104.6	1065.1	1022.5
9534.0	55°	7186.2	3765.8	1251.7	1068.3	1090.7	1086.5	1074.7	1045.9	1024.6	968.1
10256.8	57.5°	7670.2	3802.1	1187.7	1029.9	1068.3	1021.4	1017.2	992.6	964.9	926.5
11138.6	60°	8249.2	3858.6	1132.3	1015.0	1049.1	978.8	957.4	947.9	920.1	900.9
12199.5	62.5°	8880.4	3909.8	1075.8	1017.2	1026.8	937.2	905.2	902.0	884.9	878.5
13195.3	65°	9311.1	3770.1	1005.4	1015.0	991.6	894.5	854.0	853.0	839.1	837.0
13627.1	67.5°	9160.8	3327.6	910.5	985.2	955.3	851.9	807.1	802.8	784.7	785.8
13176.1	70°	8408.1	2696.4	779.4	911.6	910.5	813.5	758.1	744.2	719.7	723.9
11456.3	72.5°	6996.4	1998.1	603.5	789.0	839.1	778.3	701.6	679.2	648.2	652.5
8457.1	75°	5052.7	1358.3	439.3	600.3	730.3	736.7	646.1	607.7	570.4	576.8
4707.3	77.5°	2585.5	769.8	323.1	413.7	573.6	669.6	596.0	544.8	536.3	596.0
1357.3	80°	843.4	386.0	223.9	290.0	376.4	548.0	522.4	463.8	461.7	475.5
284.7	82.5°	251.6	163.1	143.9	190.8	207.9	420.1	451.0	350.8	301.7	317.7
94.9	85°	86.4	78.9	82.1	94.9	99.2	246.3	315.6	232.4	219.6	242.0
21.3	87.5°	20.3	27.7	23.5	21.3	21.3	59.7	122.6	97.0	134.3	89.6
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>
2423.5
1916.0
1741.1
1764.6
1824.3
1875.4
1904.2
1900.0
1853.1
1774.2
1688.9
1611.0
1546.0
1517.2
1476.7
1404.2
1270.9
1197.3
1180.3
1132.3
1076.9
1014.0
969.2
913.7
906.3
878.5
835.9
785.8
728.2
651.4
578.9
587.5
408.4
328.4
238.8
86.4
0.0

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