

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: P951207

Luminaire Tested: **GALN-SB5B-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951207
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-SB5B-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 20155 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

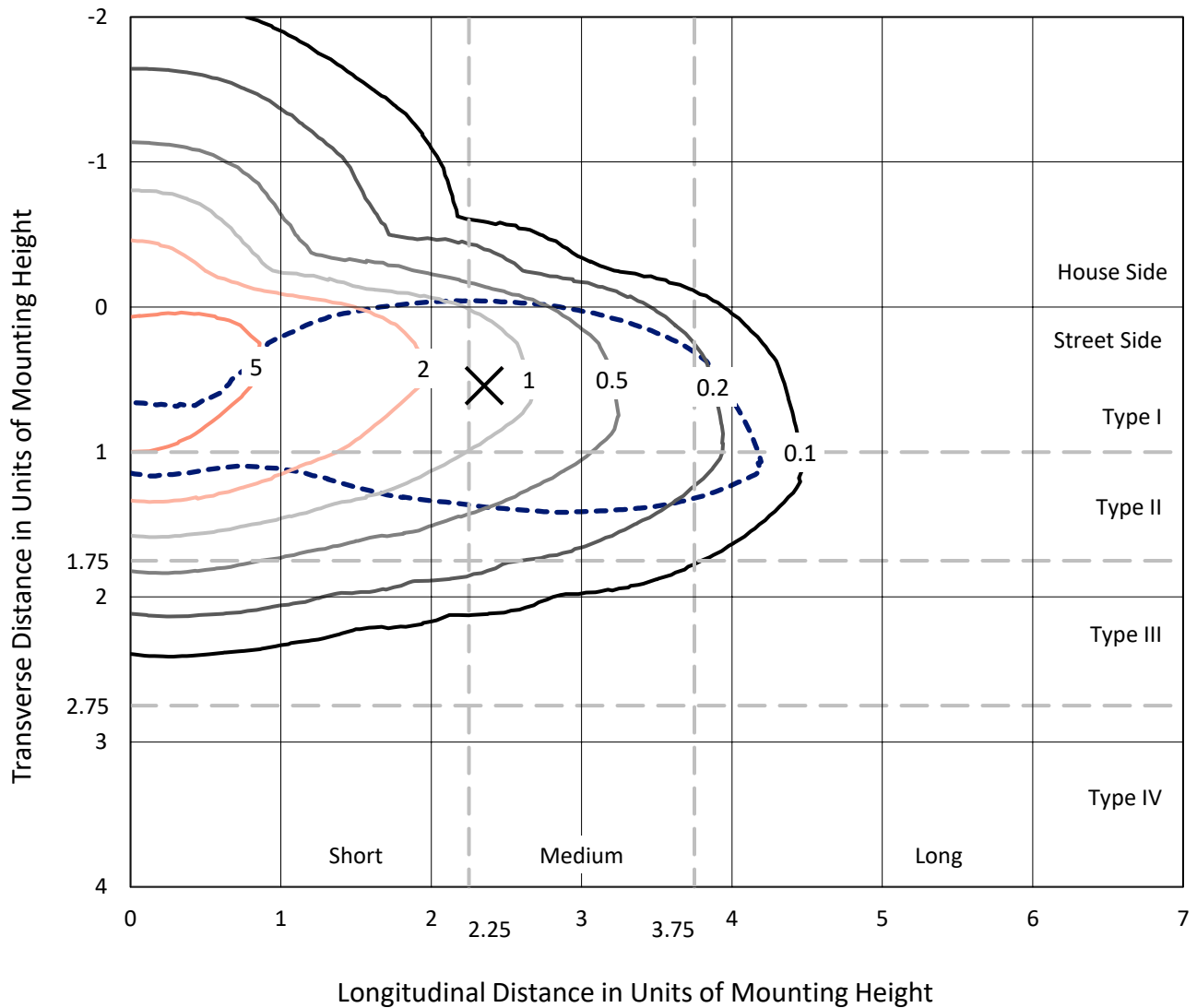
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

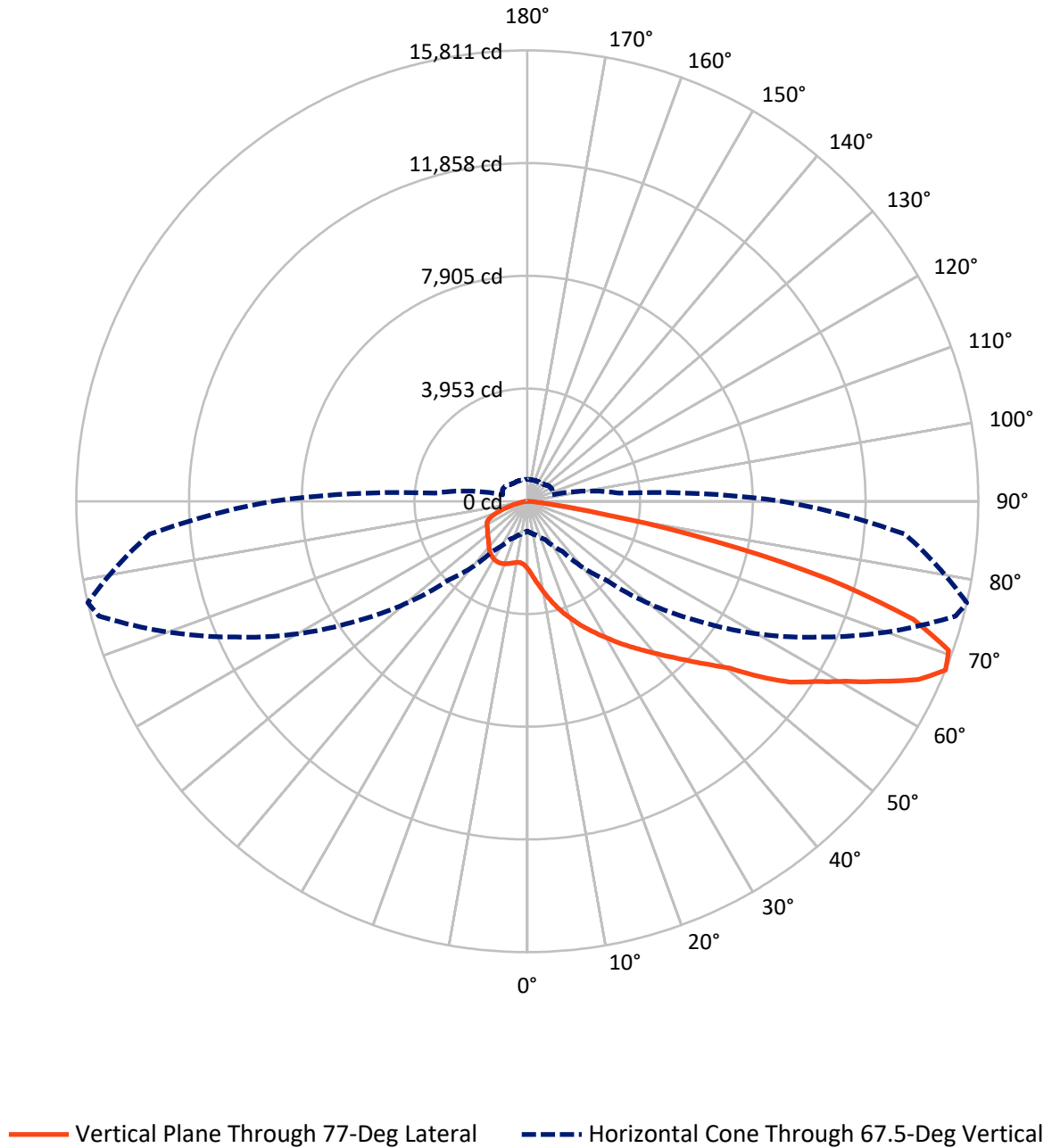
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3812.5	0.0	3812.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16342.5	0.0	16342.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	20155.0	0.0	20155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.3
10°-20°	910.6	4.5
20°-30°	1719.4	8.5
30°-40°	2769.9	13.7
40°-50°	3788.7	18.8
50°-60°	4273.7	21.2
60°-70°	3988.9	19.8
70°-80°	2186.6	10.8
80°-90°	263.8	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°	20155.0	100.0
0°-180°	20155.0	100.0

Coefficient of Utilization



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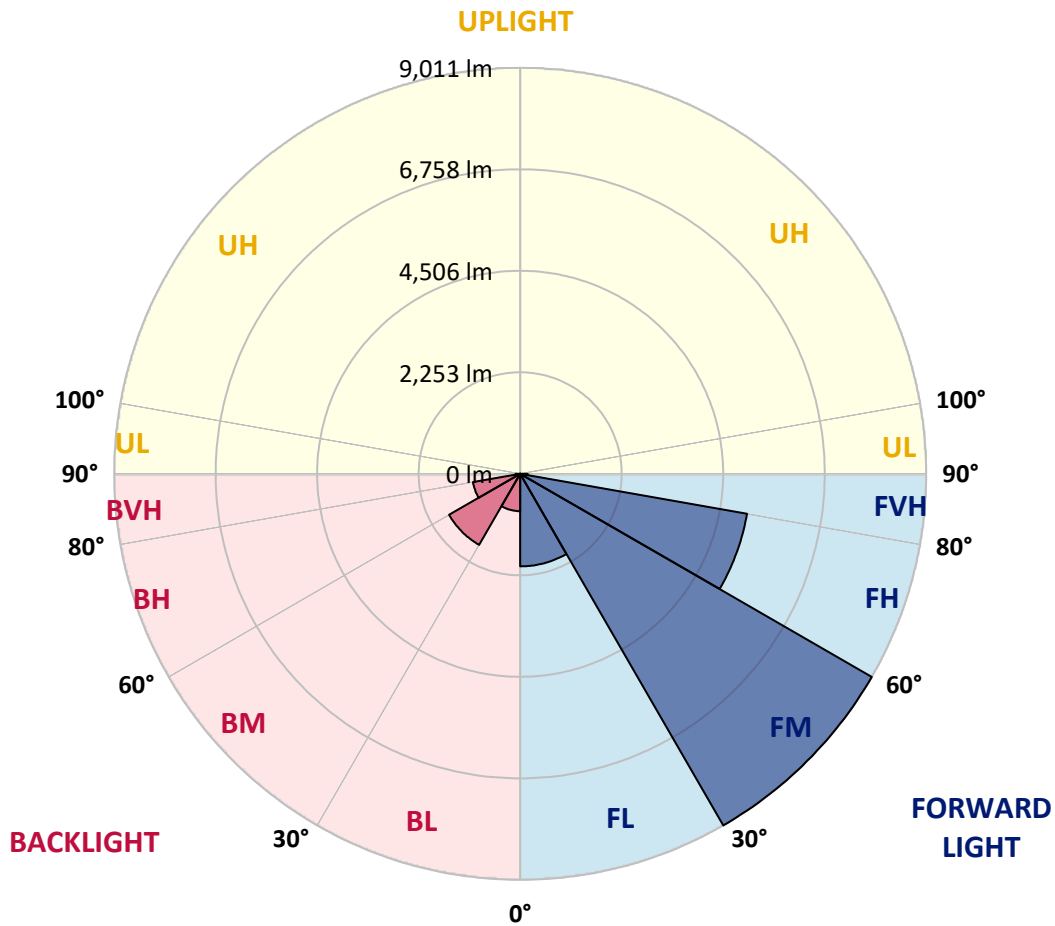
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.5	10.2			
FM (30°-60°)	9011.1	44.7			
FH (60°-80°)	5111.9	25.4			G3/7500
FVH (80°-90°)	164.9	0.8			G2/225
BL (0°-30°)	828.9	4.1	B2/1000		
BM (30°-60°)	1821.1	9.0	B2/2500		
BH (60°-80°)	1063.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	98.8	0.5			G1/100
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°	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8
2.5°	2961.0	2981.8	2955.7	2955.7	2868.4	2822.6	2735.2	2668.6	2549.0	2528.1
5°	3499.9	3525.9	3489.5	3473.9	3370.9	3276.2	3129.5	2984.9	2771.6	2749.8
7.5°	3917.1	3950.4	3918.1	3901.5	3809.9	3703.8	3532.1	3330.3	3029.6	2987.0
10°	4257.3	4262.5	4252.1	4258.3	4186.5	4099.1	3923.3	3688.2	3312.6	3254.3
12.5°	4449.8	4473.7	4494.5	4531.9	4519.5	4465.4	4307.2	4026.3	3612.2	3537.3
15°	4540.3	4581.9	4628.7	4715.0	4784.8	4798.3	4677.6	4389.4	3917.1	3826.6
17.5°	4572.5	4612.1	4685.9	4810.8	4960.6	5061.5	5007.4	4742.1	4218.8	4114.7
20°	4735.9	4747.3	4792.0	4910.6	5072.9	5240.4	5281.0	5081.3	4517.4	4399.8
22.5°	5085.4	5062.5	5075.0	5129.1	5245.6	5407.9	5500.5	5380.9	4824.3	4689.0
25°	5662.8	5596.3	5529.7	5467.3	5526.6	5618.1	5723.2	5680.5	5145.8	4974.1
27.5°	6392.2	6311.0	6164.3	5959.4	5887.6	5919.8	5966.6	5958.3	5443.3	5269.6
30°	7110.0	7015.4	6840.6	6544.1	6354.7	6269.4	6234.0	6210.1	5766.9	5581.7
32.5°	7683.3	7608.4	7436.7	7104.8	6830.2	6684.5	6566.9	6481.6	6105.0	5919.8
35°	8184.8	8115.0	7918.4	7556.4	7257.8	7102.7	6948.8	6766.7	6456.7	6269.4
37.5°	8642.5	8572.8	8303.4	7926.7	7626.1	7518.9	7381.6	7072.6	6809.4	6632.5
40°	8931.8	8916.1	8664.4	8237.8	7925.7	7872.6	7826.9	7427.3	7200.5	7036.2
42.5°	9005.6	9040.0	8840.2	8489.6	8192.0	8149.4	8256.5	7828.9	7639.6	7482.5
45°	8827.7	8926.6	8795.5	8557.2	8381.4	8358.5	8637.3	8268.0	8125.4	7981.9
47.5°	8377.2	8544.7	8490.6	8457.3	8432.4	8531.2	8972.3	8734.1	8675.8	8551.0
50°	7467.9	7785.2	7879.9	8090.1	8331.4	8665.4	9277.2	9242.8	9318.8	9192.9
52.5°	5895.9	6332.9	6882.2	7408.6	8021.4	8620.7	9612.2	9973.2	10293.6	10225.0
55°	4866.9	5063.6	5486.0	6451.5	7420.1	8432.4	9763.0	10563.1	11261.2	11199.8
57.5°	4076.3	4252.1	4512.2	5318.5	6510.8	8004.8	9856.7	10923.1	11923.9	11917.7
60°	3228.3	3414.6	3680.9	4252.1	5448.5	7266.1	9835.9	11333.0	12769.8	12821.8
62.5°	2271.2	2476.1	2771.6	3304.3	4363.4	6308.9	9411.4	11629.5	13765.4	13906.9
65°	1493.0	1628.2	1850.9	2310.7	3251.2	5078.1	8600.9	11668.0	14830.8	15070.1
67.5°	1046.6	1098.7	1229.7	1479.4	2143.2	3894.2	7309.8	11269.5	15541.4	15810.8
70°	816.7	842.7	909.3	1009.2	1346.3	2618.7	5601.5	10233.3	15389.5	15670.4
72.5°	705.4	730.4	755.3	767.8	903.1	1616.8	3794.3	8556.2	13958.9	14149.3
75°	639.8	646.1	666.9	662.7	688.7	1048.7	2190.0	6234.0	11013.6	10948.0
77.5°	537.9	546.2	580.5	575.3	611.7	716.8	1137.1	4023.2	7140.2	6694.9
80°	455.7	459.9	497.3	491.1	531.6	519.2	580.5	2050.6	3028.6	2565.6
82.5°	158.1	195.6	379.7	391.2	405.8	314.2	335.0	836.5	924.9	708.5
85°	77.0	82.2	193.5	274.7	273.6	158.1	163.3	298.6	291.3	228.9
87.5°	12.5	15.6	22.9	107.2	85.3	41.6	56.2	58.3	60.3	52.0
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°
2364.8	0°	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8	2364.8
2449.1	2.5°	2390.8	2338.8	2229.6	2128.6	2049.6	1973.6	1931.0	1894.6	1873.7	1869.6
2563.5	5°	2455.3	2348.2	2149.4	1981.9	1872.7	1791.6	1748.9	1721.8	1708.3	1700.0
2717.5	7.5°	2547.9	2390.8	2107.8	1917.4	1803.0	1744.7	1722.9	1718.7	1717.7	1718.7
2903.7	10°	2675.9	2460.5	2103.7	1901.8	1806.1	1773.9	1772.8	1773.9	1778.0	1779.1
3106.6	12.5°	2814.3	2532.3	2120.3	1915.4	1845.7	1828.0	1824.8	1823.8	1826.9	1829.0
3311.6	15°	2965.1	2627.0	2148.4	1944.5	1889.3	1870.6	1867.5	1861.3	1860.2	1859.2
3526.9	17.5°	3120.1	2720.6	2179.6	1975.7	1917.4	1891.4	1880.0	1865.4	1854.0	1850.9
3749.6	20°	3277.2	2813.2	2201.5	1991.3	1919.5	1883.1	1860.2	1835.2	1815.5	1804.0
3974.3	22.5°	3444.7	2910.0	2215.0	1987.1	1900.8	1850.9	1809.2	1780.1	1749.9	1730.2
4201.1	25°	3608.1	2994.2	2214.0	1965.3	1864.4	1800.9	1747.9	1710.4	1668.8	1648.0
4435.2	27.5°	3765.2	3070.2	2187.9	1926.8	1812.4	1741.6	1678.1	1633.4	1592.8	1573.1
4671.4	30°	3927.5	3133.7	2147.4	1870.6	1751.0	1672.9	1603.2	1564.7	1528.3	1509.6
4921.0	32.5°	4088.7	3191.9	2090.1	1800.9	1680.2	1605.3	1536.7	1501.3	1479.4	1479.4
5189.5	35°	4259.4	3232.5	2014.2	1719.8	1605.3	1533.5	1479.4	1458.6	1456.5	1444.1
5473.5	37.5°	4439.3	3258.5	1921.6	1636.5	1531.5	1463.8	1447.2	1422.2	1401.4	1374.4
5785.6	40°	4628.7	3284.5	1810.3	1550.2	1453.4	1416.0	1408.7	1375.4	1316.1	1249.5
6139.3	42.5°	4858.6	3302.2	1694.8	1463.8	1371.2	1358.8	1369.2	1311.9	1217.3	1167.3
6565.9	45°	5125.0	3331.3	1588.7	1378.5	1287.0	1287.0	1330.7	1255.8	1177.7	1146.5
7052.8	47.5°	5470.4	3399.0	1489.8	1284.9	1208.9	1229.7	1245.3	1188.1	1144.4	1105.9
7645.8	50°	5969.8	3561.3	1387.9	1190.2	1149.6	1191.2	1169.4	1136.1	1085.1	1053.9
8588.4	52.5°	6589.8	3657.0	1297.4	1104.9	1098.7	1140.3	1109.1	1077.8	1039.4	997.7
9303.2	55°	7012.2	3674.7	1221.4	1042.5	1064.3	1060.2	1048.7	1020.6	999.8	944.7
10008.6	57.5°	7484.6	3710.0	1159.0	1005.0	1042.5	996.7	992.5	968.6	941.6	904.1
10869.0	60°	8049.5	3765.2	1104.9	990.5	1023.7	955.1	934.3	924.9	897.9	879.1
11904.1	62.5°	8665.4	3815.1	1049.8	992.5	1001.9	914.5	883.3	880.2	863.5	857.3
12875.9	65°	9085.7	3678.8	981.1	990.5	967.6	872.9	833.4	832.3	818.8	816.7
13297.2	67.5°	8939.0	3247.1	888.5	961.3	932.2	831.3	787.6	783.4	765.7	766.8
12857.1	70°	8204.5	2631.1	760.5	889.5	888.5	793.8	739.7	726.2	702.3	706.4
11179.0	72.5°	6827.0	1949.7	588.9	769.9	818.8	759.5	684.6	662.7	632.6	636.7
8252.4	75°	4930.4	1325.5	428.6	585.7	712.7	718.9	630.5	593.0	556.6	562.9
4593.3	77.5°	2522.9	751.2	315.2	403.7	559.7	653.4	581.6	531.6	523.3	581.6
1324.4	80°	822.9	376.6	218.5	283.0	367.3	534.8	509.8	452.6	450.5	464.0
277.8	82.5°	245.5	159.2	140.5	186.2	202.9	409.9	440.1	342.3	294.4	310.0
92.6	85°	84.3	77.0	80.1	92.6	96.8	240.3	308.0	226.8	214.3	236.2
20.8	87.5°	19.8	27.1	22.9	20.8	20.8	58.3	119.6	94.7	131.1	87.4
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>
2364.8
1869.6
1699.0
1721.8
1780.1
1830.0
1858.1
1854.0
1808.2
1731.2
1648.0
1572.0
1508.6
1480.5
1440.9
1370.2
1240.1
1168.4
1151.7
1104.9
1050.8
989.4
945.7
891.6
884.3
857.3
815.7
766.8
710.6
635.7
564.9
573.3
398.5
320.4
233.0
84.3
0.0

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