

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: P950004

Luminaire Tested: **GALN-SB4C-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

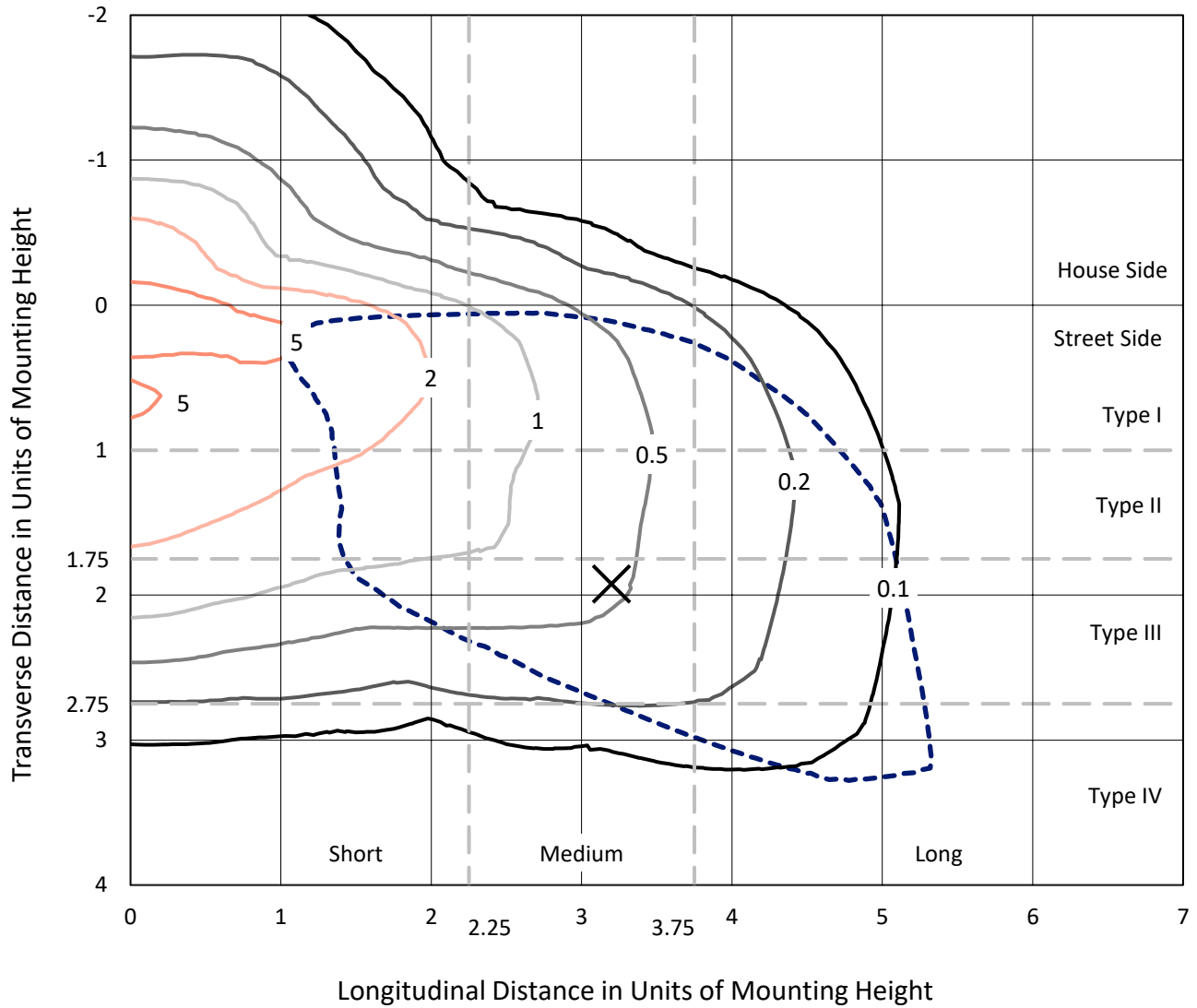
Lumens per Lamp: N/A  
Luminaire Lumens: 26358 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

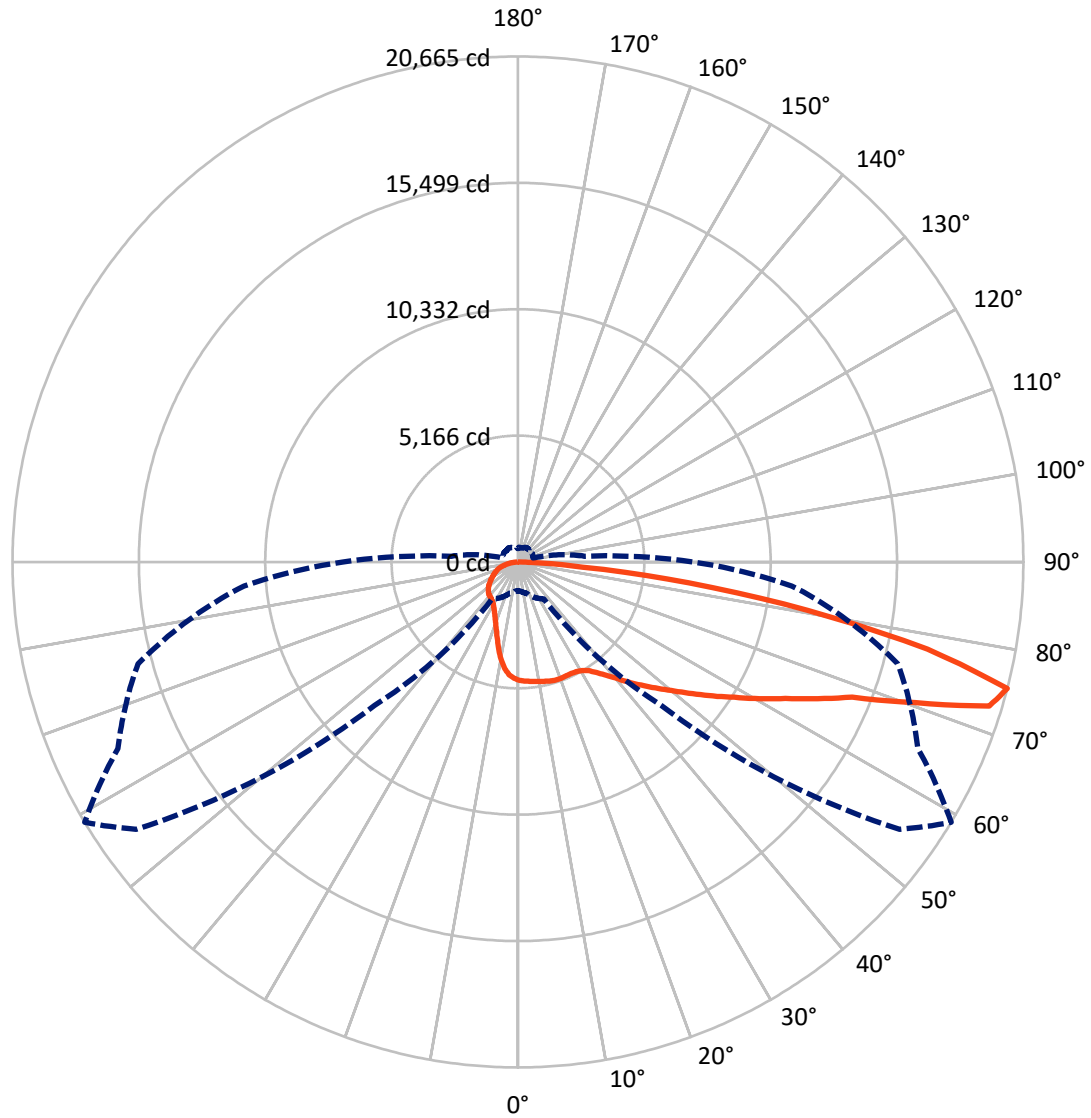
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4943.6	0.0	4943.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	21414.4	0.0	21414.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	26358.0	0.0	26358.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.8	1.6
10°-20°	1108.8	4.2
20°-30°	1684.2	6.4
30°-40°	2503.5	9.5
40°-50°	3723.2	14.1
50°-60°	5053.8	19.2
60°-70°	6169.9	23.4
70°-80°	4842.0	18.4
80°-90°	838.8	3.2
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°	26358.0	100.0
0°-180°	26358.0	100.0



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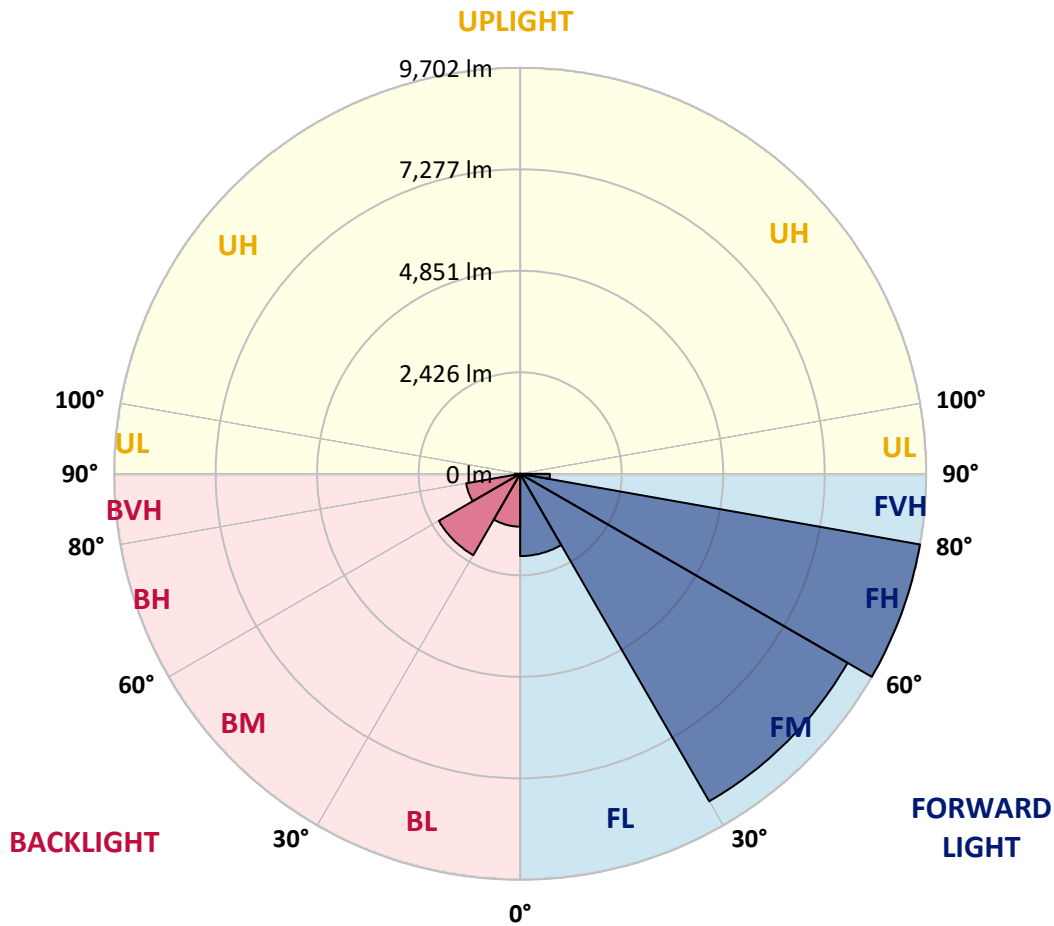
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.3	7.5			
FM (30°-60°)	9036.6	34.3			
FH (60°-80°)	9702.1	36.8			G4/12000
FVH (80°-90°)	710.4	2.7			G4/750
BL (0°-30°)	1261.6	4.8	B3/2500		
BM (30°-60°)	2243.9	8.5	B2/2500		
BH (60°-80°)	1309.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	128.4	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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0
2.5°	4879.1	4862.1	4879.1	4872.0	4869.1	4863.5	4864.9	4874.8	4869.1	4876.2
5°	4846.5	4836.5	4853.5	4849.3	4867.7	4870.6	4889.0	4900.3	4907.4	4908.8
7.5°	4792.6	4782.7	4806.8	4826.6	4866.3	4877.7	4915.9	4934.4	4944.3	4961.3
10°	4595.5	4591.2	4650.8	4725.9	4819.5	4877.7	4935.8	4967.0	4982.6	5028.0
12.5°	4246.7	4252.4	4330.3	4475.0	4662.1	4849.3	4958.5	5003.8	5028.0	5084.7
15°	3913.5	3912.0	3997.1	4151.7	4414.0	4724.5	4969.8	5047.8	5088.9	5172.6
17.5°	3720.6	3715.0	3774.5	3892.2	4136.1	4533.1	4941.5	5071.9	5159.8	5264.7
20°	3685.2	3673.8	3705.0	3763.2	3936.2	4323.2	4867.7	5071.9	5216.5	5352.7
22.5°	3814.2	3795.8	3783.0	3775.9	3852.5	4150.3	4784.1	5054.9	5300.2	5478.9
25°	4073.7	4045.3	3980.1	3916.3	3893.6	4072.3	4710.3	5050.6	5425.0	5649.0
27.5°	4493.4	4457.9	4326.1	4172.9	4035.4	4112.0	4677.7	5076.2	5562.5	5829.1
30°	5013.8	4975.5	4809.6	4574.2	4327.5	4259.4	4718.8	5151.3	5738.3	6068.7
32.5°	5480.3	5437.7	5295.9	5056.3	4723.1	4514.7	4849.3	5294.5	6014.8	6401.9
35°	5894.3	5844.7	5717.1	5495.9	5208.0	4873.4	5084.7	5548.3	6407.6	6943.6
37.5°	6299.8	6241.7	6102.7	5868.8	5667.4	5351.2	5409.4	5874.5	6929.4	7601.5
40°	6753.6	6669.9	6501.2	6270.1	6074.4	5911.3	5836.2	6274.3	7459.7	8336.0
42.5°	7193.1	7113.7	6912.4	6715.3	6470.0	6423.2	6331.0	6742.2	8039.6	9142.8
45°	7666.7	7571.7	7327.8	7078.3	6923.7	6763.5	6810.3	7210.1	8608.2	9965.2
47.5°	8110.5	8004.2	7716.3	7438.4	7353.3	7049.9	7249.8	7724.8	9199.5	10798.9
50°	8350.1	8245.2	8005.6	7754.6	7688.0	7403.0	7726.3	8290.6	9819.1	11629.8
52.5°	8550.1	8436.6	8123.3	7984.3	7964.5	7787.2	8313.3	8937.2	10438.7	12364.3
55°	8762.8	8636.6	8236.7	8111.9	8202.7	8218.3	9009.5	9670.2	11093.8	13080.3
57.5°	9008.1	8847.8	8345.9	8219.7	8435.2	8723.1	9809.2	10430.2	11737.6	13743.9
60°	9239.2	9077.5	8555.7	8391.3	8686.2	9308.7	10726.6	11350.5	12466.4	14335.2
62.5°	9284.6	9151.3	8723.1	8721.6	9026.5	9992.1	11812.7	12279.2	13103.0	14919.4
65°	8499.0	8415.4	8161.6	8708.9	9514.3	10976.1	13022.2	13467.4	13912.7	15429.8
67.5°	6468.6	6479.9	6461.5	7517.8	9120.1	12389.8	14773.3	14739.3	14912.3	16002.7
70°	2957.8	3024.4	3458.3	5189.6	7306.6	12552.9	17668.7	17227.8	16167.2	16744.2
72.5°	1598.0	1649.0	1826.3	2514.0	4392.7	11160.5	19832.5	20145.8	17836.0	17243.4
75°	1172.6	1201.0	1324.3	1598.0	1844.7	8294.8	19056.9	20664.8	18044.5	16079.2
77.5°	877.7	890.5	991.1	1266.2	944.3	4372.9	15227.1	17114.3	15446.8	13210.8
80°	636.6	650.8	726.0	950.0	662.2	1599.4	10455.8	12012.6	10579.1	8421.0
82.5°	439.6	445.2	477.8	646.6	462.2	621.1	5932.6	7044.2	5905.6	2955.0
85°	265.2	272.2	286.4	377.2	262.3	294.9	2560.8	2648.7	1765.3	706.1
87.5°	109.2	116.3	127.6	158.8	103.5	82.2	422.5	530.3	330.4	207.0
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°
4838.0	0°	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0	4838.0
4852.1	2.5°	4845.0	4835.1	4808.2	4771.3	4737.3	4694.7	4676.3	4660.7	4646.5	4619.6
4890.4	5°	4874.8	4847.9	4775.6	4682.0	4575.6	4459.4	4345.9	4267.9	4201.3	4151.7
4934.4	7.5°	4920.2	4869.1	4737.3	4545.9	4302.0	4052.4	3827.0	3666.7	3546.2	3502.3
4996.8	10°	4967.0	4906.0	4676.3	4338.8	3917.7	3533.5	3234.3	3069.8	2973.4	2942.2
5070.5	12.5°	5022.3	4933.0	4581.3	4051.0	3488.1	3067.0	2806.1	2709.7	2660.0	2643.0
5161.2	15°	5103.1	4955.6	4438.1	3690.9	3078.3	2726.7	2557.9	2491.3	2465.8	2464.3
5254.8	17.5°	5164.1	4959.9	4215.5	3305.2	2763.5	2521.1	2382.1	2356.6	2373.6	2399.1
5347.0	20°	5232.1	4921.6	3923.4	2953.5	2542.3	2341.0	2282.9	2299.9	2341.0	2377.9
5468.9	22.5°	5280.3	4852.1	3570.3	2679.9	2350.9	2237.5	2234.6	2270.1	2292.8	2311.2
5612.1	25°	5322.9	4734.4	3196.0	2450.2	2193.5	2175.1	2206.3	2194.9	2179.3	2194.9
5755.3	27.5°	5354.1	4548.7	2861.4	2248.8	2082.9	2132.6	2114.1	2088.6	2087.2	2095.7
5924.1	30°	5344.2	4300.6	2586.3	2057.4	2004.9	2053.2	2009.2	2004.9	2000.7	2004.9
6177.9	32.5°	5344.2	4018.4	2375.0	1925.5	1955.3	1936.9	1932.6	1922.7	1905.7	1904.3
6522.4	35°	5373.9	3736.2	2193.5	1854.6	1914.2	1870.2	1873.1	1849.0	1813.5	1796.5
6979.0	37.5°	5434.9	3509.4	2013.5	1820.6	1841.9	1840.5	1829.1	1788.0	1725.6	1671.7
7549.0	40°	5582.4	3442.7	1890.1	1805.0	1807.9	1824.9	1795.1	1715.7	1573.9	1486.0
8127.5	42.5°	5813.5	3554.7	1863.2	1766.7	1785.2	1802.2	1744.0	1559.7	1459.0	1406.6
8734.4	45°	6107.0	3750.4	1921.3	1711.4	1731.3	1761.1	1588.1	1500.2	1454.8	1456.2
9335.6	47.5°	6478.5	3956.0	2029.0	1663.2	1653.3	1670.3	1484.6	1430.7	1368.3	1383.9
9912.7	50°	6908.1	4164.4	2131.1	1598.0	1566.8	1511.5	1417.9	1366.9	1287.5	1250.6
10469.9	52.5°	7373.2	4365.8	2172.3	1518.6	1473.2	1409.4	1372.5	1310.2	1213.7	1152.8
10996.0	55°	7814.2	4548.7	2126.9	1423.6	1379.6	1330.0	1324.3	1286.1	1182.5	1097.5
11463.9	57.5°	8231.0	4701.8	2013.5	1327.2	1284.6	1254.9	1293.1	1274.7	1144.3	1035.1
11906.3	60°	8584.1	4806.8	1849.0	1229.3	1199.6	1184.0	1242.1	1236.4	1090.4	968.4
12303.3	62.5°	8864.9	4847.9	1667.5	1135.8	1128.7	1100.3	1171.2	1171.2	1022.3	903.2
12652.1	65°	9084.6	4808.2	1483.1	1043.6	1057.8	1015.2	1084.7	1076.2	950.0	845.1
13053.4	67.5°	9278.9	4677.7	1279.0	952.8	985.5	931.6	994.0	974.1	870.6	786.9
13400.8	70°	9365.4	4374.3	1046.4	862.1	901.8	849.3	903.2	866.4	781.3	724.6
13019.4	72.5°	8670.6	3635.6	823.8	767.1	801.1	758.6	805.4	762.8	684.9	659.3
11242.7	75°	7173.3	2728.1	633.8	663.6	689.1	656.5	687.7	656.5	585.6	604.0
8304.8	77.5°	5209.4	1841.9	484.9	554.4	565.8	548.7	575.7	540.2	476.4	472.2
4138.9	80°	2590.5	1079.0	380.0	438.1	433.9	422.5	453.7	436.7	382.8	405.5
1117.3	82.5°	750.1	462.2	276.5	307.7	299.2	302.0	324.7	333.2	499.1	494.9
347.4	85°	235.4	181.5	165.9	171.6	163.1	167.3	191.4	380.0	351.6	205.6
107.8	87.5°	61.0	62.4	41.1	44.0	45.4	53.9	61.0	231.1	110.6	72.3
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>
4838.0
4606.8
4110.6
3425.7
2894.0
2647.3
2470.0
2409.1
2390.6
2321.1
2204.9
2109.9
2020.5
1922.7
1813.5
1690.2
1497.3
1406.6
1463.3
1423.6
1260.5
1151.4
1097.5
1029.4
964.2
899.0
839.4
781.3
713.2
638.1
551.6
450.9
401.3
506.2
222.6
76.6
0.0

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