

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: P950718

Luminaire Tested: **GALN-SB5A-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950718  
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-SB5A-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

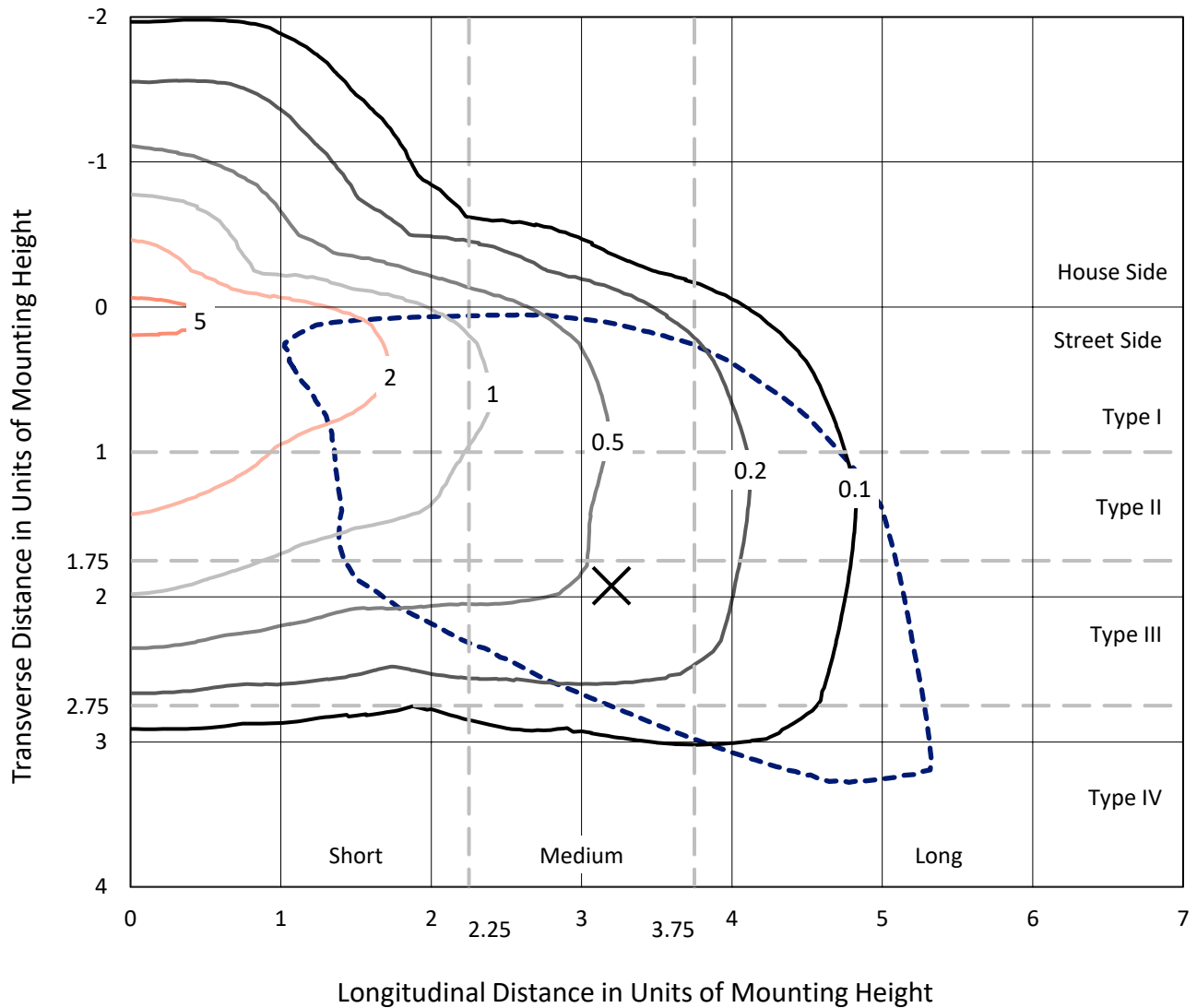
Lumens per Lamp: N/A  
Luminaire Lumens: 19899 lumens  
Efficiency: N/A  
Efficacy: 140.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

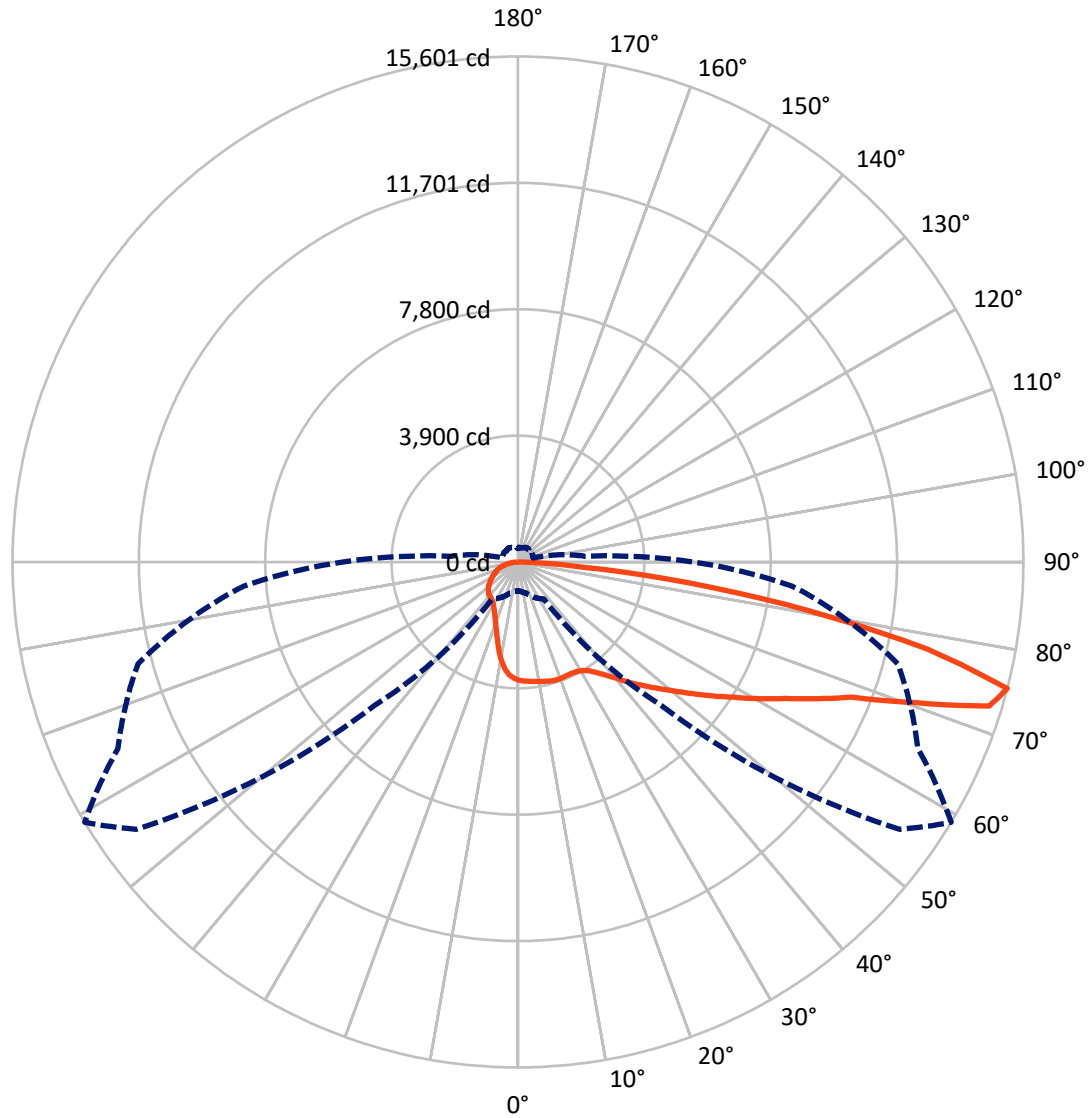
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3732.2	0.0	3732.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	16166.8	0.0	16166.8
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	19899.0	0.0	19899.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.5	1.6
10°-20°	837.1	4.2
20°-30°	1271.5	6.4
30°-40°	1890.0	9.5
40°-50°	2810.8	14.1
50°-60°	3815.4	19.2
60°-70°	4657.9	23.4
70°-80°	3655.5	18.4
80°-90°	633.2	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°	19899.0	100.0
0°-180°	19899.0	100.0

**Coefficient of Utilization**



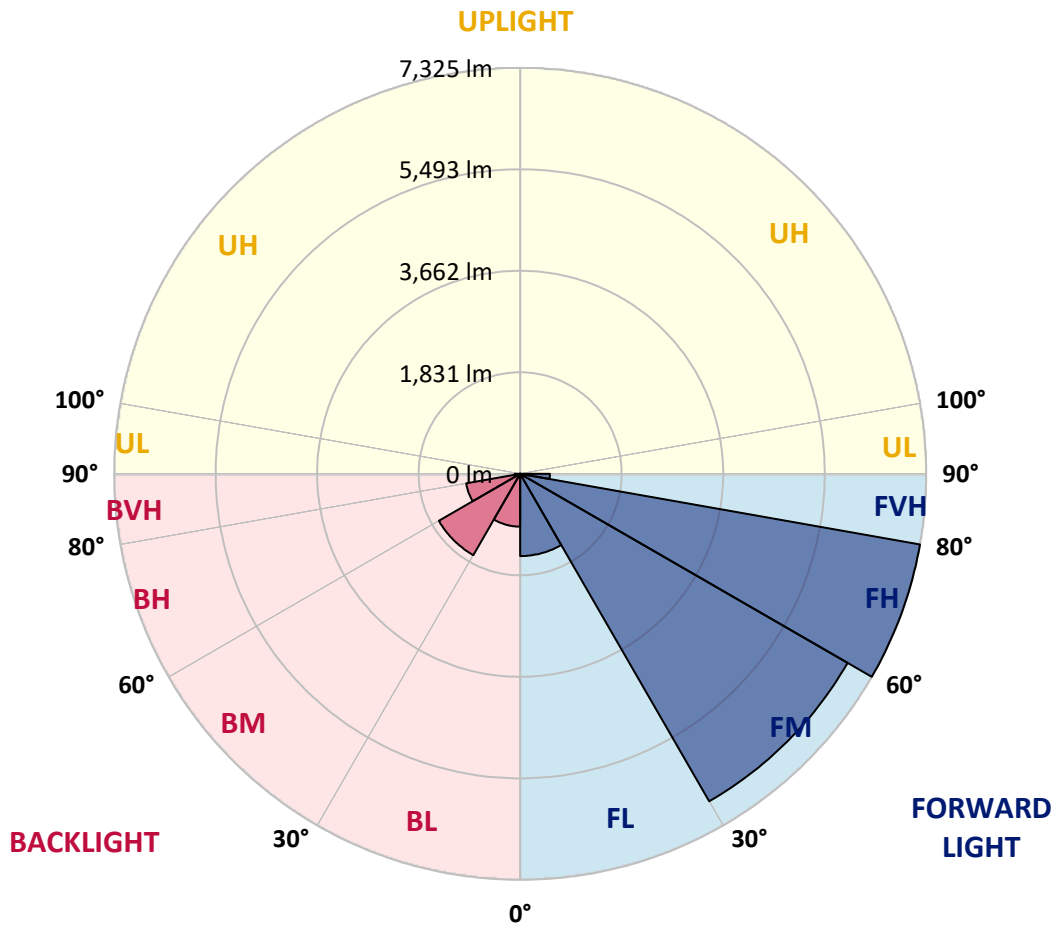
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.7	7.5			
FM (30°-60°)	6822.2	34.3			
FH (60°-80°)	7324.6	36.8			G3/7500
FVH (80°-90°)	536.3	2.7			G4/750
BL (0°-30°)	952.4	4.8	B2/1000		
BM (30°-60°)	1694.0	8.5	B2/2500		
BH (60°-80°)	988.8	5.0	B2/1000		G2/1000
BVH (80°-90°)	96.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4
2.5°	3683.5	3670.6	3683.5	3678.1	3676.0	3671.7	3672.8	3680.2	3676.0	3681.3
5°	3658.8	3651.3	3664.2	3661.0	3674.9	3677.0	3691.0	3699.5	3704.9	3705.9
7.5°	3618.2	3610.7	3628.9	3643.9	3673.8	3682.4	3711.3	3725.2	3732.7	3745.5
10°	3469.4	3466.2	3511.1	3567.9	3638.5	3682.4	3726.3	3749.8	3761.6	3795.9
12.5°	3206.0	3210.3	3269.2	3378.4	3519.7	3661.0	3743.4	3777.7	3795.9	3838.7
15°	2954.5	2953.4	3017.6	3134.3	3332.3	3566.8	3752.0	3810.8	3841.9	3905.0
17.5°	2808.9	2804.6	2849.6	2938.4	3122.5	3422.3	3730.6	3829.0	3895.4	3974.6
20°	2782.1	2773.6	2797.1	2841.0	2971.6	3263.8	3674.9	3829.0	3938.2	4041.0
22.5°	2879.5	2865.6	2856.0	2850.6	2908.4	3133.2	3611.7	3816.2	4001.4	4136.3
25°	3075.4	3054.0	3004.8	2956.6	2939.5	3074.4	3556.1	3813.0	4095.6	4264.7
27.5°	3392.3	3365.5	3266.0	3150.4	3046.5	3104.3	3531.5	3832.3	4199.4	4400.7
30°	3785.2	3756.3	3631.0	3453.3	3267.1	3215.7	3562.5	3889.0	4332.2	4581.6
32.5°	4137.3	4105.2	3998.2	3817.3	3565.7	3408.4	3661.0	3997.1	4540.9	4833.1
35°	4449.9	4412.4	4316.1	4149.1	3931.8	3679.2	3838.7	4188.7	4837.4	5242.1
37.5°	4756.1	4712.2	4607.3	4430.6	4278.6	4039.9	4083.8	4434.9	5231.3	5738.7
40°	5098.6	5035.5	4908.1	4733.6	4585.9	4462.8	4406.0	4736.8	5631.7	6293.2
42.5°	5430.5	5370.5	5218.5	5069.7	4884.5	4849.2	4779.6	5090.0	6069.5	6902.3
45°	5788.0	5716.3	5532.1	5343.7	5227.1	5106.1	5141.4	5443.3	6498.8	7523.2
47.5°	6123.0	6042.8	5825.5	5615.6	5551.4	5322.3	5473.3	5831.9	6945.2	8152.6
50°	6304.0	6224.7	6043.8	5854.4	5804.0	5588.9	5832.9	6259.0	7413.0	8779.9
52.5°	6454.9	6369.3	6132.7	6027.8	6012.8	5879.0	6276.1	6747.1	7880.7	9334.4
55°	6615.5	6520.2	6218.3	6124.1	6192.6	6204.4	6801.7	7300.6	8375.3	9875.0
57.5°	6800.6	6679.7	6300.7	6205.5	6368.2	6585.5	7405.5	7874.3	8861.3	10376.0
60°	6975.1	6853.1	6459.2	6335.0	6557.7	7027.6	8098.0	8569.1	9411.5	10822.4
62.5°	7009.4	6908.8	6585.5	6584.4	6814.6	7543.5	8918.0	9270.2	9892.1	11263.4
65°	6416.4	6353.2	6161.6	6574.8	7182.8	8286.4	9831.1	10167.3	10503.4	11648.8
67.5°	4883.4	4892.0	4878.1	5675.6	6885.2	9353.7	11153.1	11127.5	11258.1	12081.2
70°	2233.0	2283.3	2610.9	3917.9	5516.1	9476.8	13339.0	13006.1	12205.4	12641.1
72.5°	1206.4	1244.9	1378.8	1897.9	3316.3	8425.6	14972.6	15209.1	13465.3	13017.9
75°	885.3	906.7	999.8	1206.4	1392.7	6262.2	14387.0	15600.9	13622.7	12139.0
77.5°	662.6	672.3	748.3	955.9	712.9	3301.3	11495.7	12920.5	11661.6	9973.5
80°	480.6	491.3	548.1	717.2	499.9	1207.5	7893.6	9069.0	7986.7	6357.5
82.5°	331.8	336.1	360.7	488.1	349.0	468.9	4478.8	5318.1	4458.5	2230.8
85°	200.2	205.5	216.2	284.7	198.0	222.7	1933.3	1999.6	1332.7	533.1
87.5°	82.4	87.8	96.3	119.9	78.1	62.1	319.0	400.4	249.4	156.3
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°
3652.4	0°	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4	3652.4
3663.1	2.5°	3657.8	3650.3	3629.9	3602.1	3576.4	3544.3	3530.4	3518.6	3507.9	3487.6
3692.0	5°	3680.2	3659.9	3605.3	3534.7	3454.4	3366.6	3281.0	3222.1	3171.8	3134.3
3725.2	7.5°	3714.5	3676.0	3576.4	3431.9	3247.8	3059.4	2889.2	2768.2	2677.2	2644.0
3772.3	10°	3749.8	3703.8	3530.4	3275.6	2957.7	2667.6	2441.7	2317.6	2244.8	2221.2
3828.0	12.5°	3791.6	3724.1	3458.7	3058.3	2633.3	2315.4	2118.4	2045.7	2008.2	1995.3
3896.5	15°	3852.6	3741.3	3350.5	2786.4	2324.0	2058.5	1931.1	1880.8	1861.5	1860.5
3967.1	17.5°	3898.6	3744.5	3182.5	2495.2	2086.3	1903.3	1798.4	1779.1	1792.0	1811.2
4036.7	20°	3950.0	3715.6	2962.0	2229.8	1919.3	1767.3	1723.4	1736.3	1767.3	1795.2
4128.8	22.5°	3986.4	3663.1	2695.4	2023.2	1774.8	1689.2	1687.0	1713.8	1730.9	1744.9
4236.9	25°	4018.5	3574.3	2412.8	1849.8	1656.0	1642.1	1665.6	1657.1	1645.3	1657.1
4345.0	27.5°	4042.1	3434.0	2160.2	1697.8	1572.5	1610.0	1596.1	1576.8	1575.7	1582.1
4472.4	30°	4034.6	3246.7	1952.5	1553.2	1513.6	1550.0	1516.8	1513.6	1510.4	1513.6
4664.0	32.5°	4034.6	3033.7	1793.0	1453.7	1476.2	1462.3	1459.0	1451.5	1438.7	1437.6
4924.1	35°	4057.1	2820.7	1656.0	1400.2	1445.1	1411.9	1414.1	1395.9	1369.1	1356.3
5268.8	37.5°	4103.1	2649.4	1520.1	1374.5	1390.5	1389.5	1380.9	1349.9	1302.8	1262.1
5699.1	40°	4214.4	2599.1	1426.9	1362.7	1364.8	1377.7	1355.2	1295.3	1188.2	1121.8
6135.9	42.5°	4388.9	2683.6	1406.6	1333.8	1347.7	1360.6	1316.7	1177.5	1101.5	1061.9
6594.0	45°	4610.5	2831.4	1450.5	1292.0	1307.0	1329.5	1198.9	1132.5	1098.3	1099.4
7047.9	47.5°	4890.9	2986.6	1531.8	1255.7	1248.2	1261.0	1120.8	1080.1	1033.0	1044.8
7483.6	50°	5215.3	3143.9	1608.9	1206.4	1182.9	1141.1	1070.5	1031.9	972.0	944.1
7904.3	52.5°	5566.4	3296.0	1639.9	1146.5	1112.2	1064.0	1036.2	989.1	916.3	870.3
8301.4	55°	5899.3	3434.0	1605.7	1074.7	1041.6	1004.1	999.8	970.9	892.8	828.5
8654.7	57.5°	6214.0	3549.7	1520.1	1002.0	969.8	947.4	976.3	962.3	863.9	781.4
8988.7	60°	6480.6	3628.9	1395.9	928.1	905.6	893.8	937.7	933.4	823.2	731.1
9288.4	62.5°	6692.5	3659.9	1258.9	857.4	852.1	830.7	884.2	884.2	771.8	681.9
9551.7	65°	6858.5	3629.9	1119.7	787.9	798.6	766.5	818.9	812.5	717.2	638.0
9854.7	67.5°	7005.1	3531.5	965.6	719.4	744.0	703.3	750.4	735.4	657.3	594.1
10116.9	70°	7070.4	3302.4	790.0	650.8	680.8	641.2	681.9	654.1	589.8	547.0
9829.0	72.5°	6545.9	2744.7	621.9	579.1	604.8	572.7	608.0	575.9	517.0	497.8
8487.7	75°	5415.5	2059.6	478.5	501.0	520.2	495.6	519.2	495.6	442.1	456.0
6269.7	77.5°	3932.9	1390.5	366.1	418.6	427.1	414.3	434.6	407.8	359.7	356.5
3124.7	80°	1955.7	814.6	286.9	330.8	327.6	319.0	342.5	329.7	289.0	306.2
843.5	82.5°	566.3	349.0	208.7	232.3	225.9	228.0	245.1	251.6	376.8	373.6
262.3	85°	177.7	137.0	125.2	129.5	123.1	126.3	144.5	286.9	265.5	155.2
81.4	87.5°	46.0	47.1	31.0	33.2	34.3	40.7	46.0	174.5	83.5	54.6
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>
3652.4
3477.9
3103.3
2586.2
2184.8
1998.6
1864.7
1818.7
1804.8
1752.3
1664.6
1592.8
1525.4
1451.5
1369.1
1276.0
1130.4
1061.9
1104.7
1074.7
951.6
869.2
828.5
777.2
727.9
678.7
633.7
589.8
538.4
481.7
416.4
340.4
302.9
382.2
168.1
57.8
0.0

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