

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: P948555

Luminaire Tested: **GALN-SB3C-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948555  
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-SB3C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

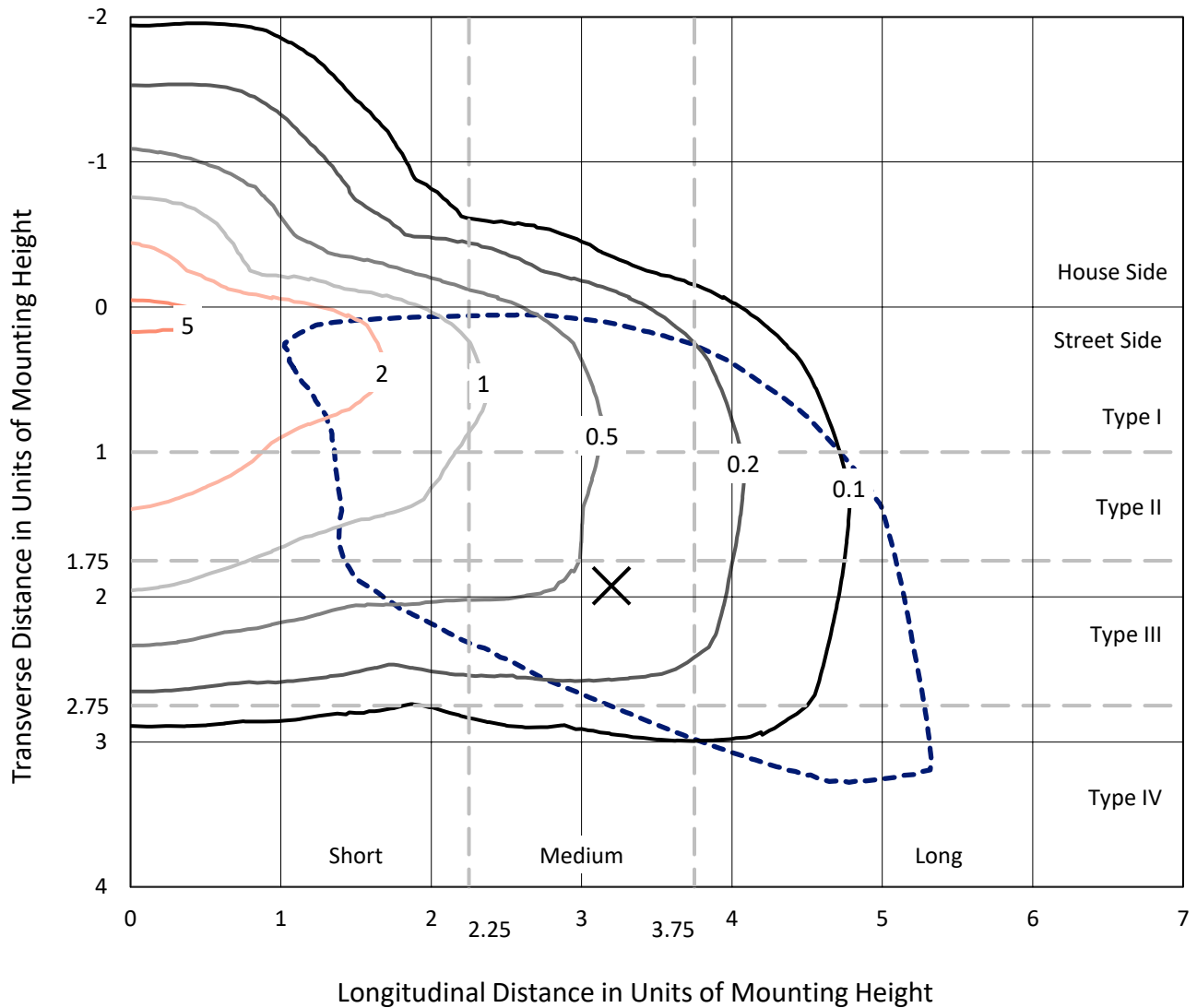
Lumens per Lamp: N/A  
Luminaire Lumens: 19096 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

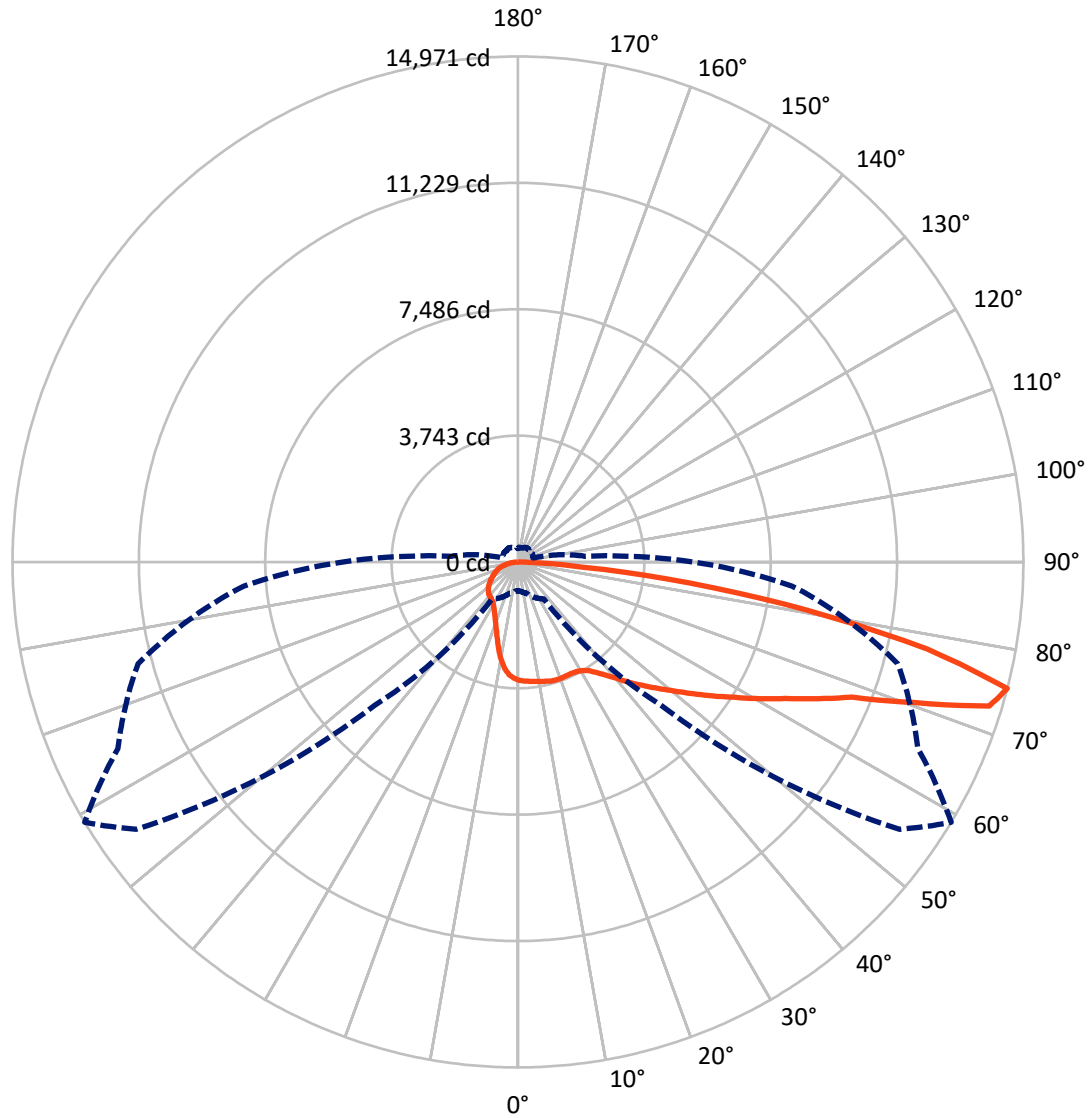
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	3581.6	0.0	3581.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15514.4	0.0	15514.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	19096.0	0.0	19096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.3	1.6
10°-20°	803.3	4.2
20°-30°	1220.2	6.4
30°-40°	1813.8	9.5
40°-50°	2697.4	14.1
50°-60°	3661.4	19.2
60°-70°	4470.0	23.4
70°-80°	3508.0	18.4
80°-90°	607.7	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°	19096.0	100.0
0°-180°	19096.0	100.0

**Coefficient of Utilization**



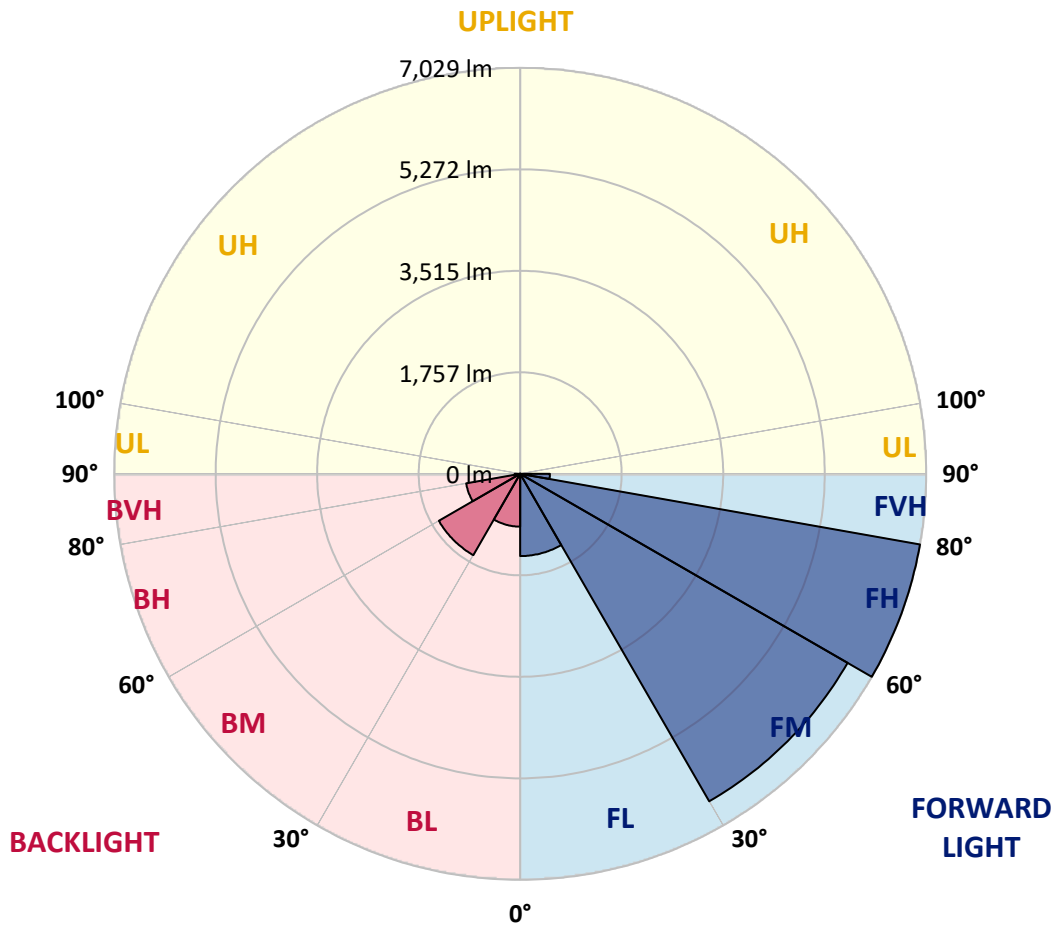
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.8	7.5			
FM (30°-60°)	6546.9	34.3			
FH (60°-80°)	7029.1	36.8			G3/7500
FVH (80°-90°)	514.7	2.7			G4/750
BL (0°-30°)	914.0	4.8	B2/1000		
BM (30°-60°)	1625.7	8.5	B2/2500		
BH (60°-80°)	948.9	5.0	B2/1000		G2/1000
BVH (80°-90°)	93.0	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°	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0
2.5°	3534.8	3522.5	3534.8	3529.7	3527.6	3523.5	3524.5	3531.7	3527.6	3532.8
5°	3511.2	3504.0	3516.3	3513.2	3526.6	3528.7	3542.0	3550.2	3555.4	3556.4
7.5°	3472.2	3465.0	3482.4	3496.8	3525.6	3533.8	3561.5	3574.9	3582.1	3594.4
10°	3329.4	3326.3	3369.4	3423.9	3491.7	3533.8	3575.9	3598.5	3609.8	3642.7
12.5°	3076.7	3080.8	3137.3	3242.0	3377.6	3513.2	3592.3	3625.2	3642.7	3683.8
15°	2835.3	2834.2	2895.9	3007.8	3197.9	3422.8	3600.6	3657.1	3686.9	3747.5
17.5°	2695.5	2691.4	2734.6	2819.8	2996.5	3284.2	3580.0	3674.5	3738.2	3814.2
20°	2669.9	2661.6	2684.2	2726.4	2851.7	3132.1	3526.6	3674.5	3779.3	3877.9
22.5°	2763.3	2750.0	2740.7	2735.6	2791.1	3006.8	3466.0	3662.2	3839.9	3969.4
25°	2951.3	2930.8	2883.5	2837.3	2820.9	2950.3	3412.6	3659.1	3930.3	4092.6
27.5°	3255.4	3229.7	3134.2	3023.2	2923.6	2979.1	3388.9	3677.6	4030.0	4223.1
30°	3632.4	3604.7	3484.5	3314.0	3135.2	3085.9	3418.7	3732.1	4157.3	4396.7
32.5°	3970.4	3939.6	3836.8	3663.2	3421.8	3270.8	3513.2	3835.8	4357.7	4638.1
35°	4270.3	4234.4	4141.9	3981.7	3773.1	3530.7	3683.8	4019.7	4642.2	5030.5
37.5°	4564.1	4522.0	4421.3	4251.8	4106.0	3876.9	3919.0	4256.0	5020.2	5507.2
40°	4892.9	4832.3	4710.0	4542.6	4400.8	4282.7	4228.2	4545.6	5404.4	6039.3
42.5°	5211.3	5153.8	5007.9	4865.1	4687.4	4653.5	4586.7	4884.6	5824.6	6623.8
45°	5554.4	5485.6	5308.9	5128.1	5016.1	4900.1	4934.0	5223.6	6236.5	7219.6
47.5°	5876.0	5798.9	5590.4	5389.0	5327.4	5107.6	5252.4	5596.5	6664.9	7823.7
50°	6049.6	5973.5	5799.9	5618.1	5569.8	5363.4	5597.6	6006.4	7113.8	8425.6
52.5°	6194.4	6112.2	5885.2	5784.5	5770.1	5641.7	6022.9	6474.9	7562.7	8957.8
55°	6348.5	6257.1	5967.4	5877.0	5942.7	5954.0	6527.2	7005.9	8037.3	9476.5
57.5°	6526.2	6410.1	6046.5	5955.1	6111.2	6319.7	7106.6	7556.6	8503.7	9957.3
60°	6693.7	6576.6	6198.5	6079.4	6293.0	6744.0	7771.3	8223.3	9031.7	10385.6
62.5°	6726.5	6630.0	6319.7	6318.7	6539.6	7239.1	8558.1	8896.1	9493.0	10808.9
65°	6157.4	6096.8	5912.9	6309.5	6892.9	7952.1	9434.4	9757.0	10079.5	11178.7
67.5°	4686.4	4694.6	4681.2	5446.6	6607.4	8976.2	10703.1	10678.4	10803.7	11593.7
70°	2142.9	2191.2	2505.5	3759.8	5293.5	9094.4	12800.7	12481.3	11712.9	12131.0
72.5°	1157.7	1194.7	1323.1	1821.3	3182.5	8085.6	14368.4	14595.4	12922.0	12492.6
75°	849.5	870.1	959.5	1157.7	1336.5	6009.5	13806.4	14971.4	13073.0	11649.2
77.5°	635.9	645.1	718.1	917.3	684.2	3168.1	11031.8	12399.1	11191.0	9571.0
80°	461.2	471.5	526.0	688.3	479.7	1158.8	7575.1	8703.0	7664.4	6100.9
82.5°	318.5	322.6	346.2	468.4	334.9	449.9	4298.1	5103.5	4278.6	2140.8
85°	192.1	197.2	207.5	273.3	190.0	213.7	1855.2	1918.9	1278.9	511.6
87.5°	79.1	84.2	92.5	115.1	75.0	59.6	306.1	384.2	239.4	150.0
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°
3505.0	0°	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0	3505.0
3515.3	2.5°	3510.2	3503.0	3483.5	3456.7	3432.1	3401.3	3387.9	3376.6	3366.3	3346.8
3543.0	5°	3531.7	3512.2	3459.8	3392.0	3315.0	3230.7	3148.6	3092.1	3043.8	3007.8
3574.9	7.5°	3564.6	3527.6	3432.1	3293.4	3116.7	2935.9	2772.6	2656.5	2569.2	2537.3
3620.1	10°	3598.5	3554.3	3387.9	3143.4	2838.3	2559.9	2343.2	2224.0	2154.2	2131.6
3673.5	12.5°	3638.6	3573.9	3319.1	2934.9	2527.1	2222.0	2033.0	1963.1	1927.1	1914.8
3739.2	15°	3697.1	3590.3	3215.3	2674.0	2230.2	1975.4	1853.2	1804.9	1786.4	1785.4
3807.0	17.5°	3741.3	3593.4	3054.1	2394.6	2002.1	1826.5	1725.8	1707.3	1719.6	1738.1
3873.8	20°	3790.6	3565.6	2842.4	2139.8	1841.9	1696.0	1653.9	1666.2	1696.0	1722.7
3962.2	22.5°	3825.5	3515.3	2586.7	1941.5	1703.2	1621.0	1619.0	1644.7	1661.1	1674.4
4065.9	25°	3856.4	3430.0	2315.5	1775.1	1589.2	1575.8	1598.4	1590.2	1578.9	1590.2
4169.7	27.5°	3879.0	3295.5	2073.0	1629.2	1509.1	1545.0	1531.7	1513.2	1512.1	1518.3
4291.9	30°	3871.8	3115.7	1873.7	1490.6	1452.6	1487.5	1455.6	1452.6	1449.5	1452.6
4475.8	32.5°	3871.8	2911.3	1720.7	1395.0	1416.6	1403.2	1400.2	1393.0	1380.6	1379.6
4725.4	35°	3893.3	2706.8	1589.2	1343.7	1386.8	1355.0	1357.0	1339.6	1313.9	1301.5
5056.2	37.5°	3937.5	2542.5	1458.7	1319.0	1334.4	1333.4	1325.2	1295.4	1250.2	1211.1
5469.2	40°	4044.3	2494.2	1369.3	1307.7	1309.8	1322.1	1300.5	1243.0	1140.3	1076.6
5888.3	42.5°	4211.8	2575.4	1349.8	1280.0	1293.3	1305.7	1263.5	1130.0	1057.1	1019.0
6328.0	45°	4424.4	2717.1	1391.9	1239.9	1254.3	1275.9	1150.5	1086.8	1054.0	1055.0
6763.5	47.5°	4693.6	2866.1	1470.0	1205.0	1197.8	1210.1	1075.5	1036.5	991.3	1002.6
7181.6	50°	5004.8	3017.1	1544.0	1157.7	1135.1	1095.1	1027.3	990.3	932.8	906.0
7585.3	52.5°	5341.8	3162.9	1573.8	1100.2	1067.3	1021.1	994.4	949.2	879.3	835.2
7966.4	55°	5661.3	3295.5	1540.9	1031.4	999.5	963.6	959.5	931.7	856.7	795.1
8305.4	57.5°	5963.3	3406.4	1458.7	961.5	930.7	909.1	936.9	923.5	829.0	749.9
8625.9	60°	6219.1	3482.4	1339.6	890.6	869.1	857.8	899.9	895.8	790.0	701.6
8913.6	62.5°	6422.5	3512.2	1208.1	822.8	817.7	797.2	848.5	848.5	740.7	654.4
9166.3	65°	6581.7	3483.5	1074.5	756.1	766.3	735.5	785.9	779.7	688.3	612.2
9457.0	67.5°	6722.4	3388.9	926.6	690.3	713.9	674.9	720.1	705.7	630.7	570.1
9708.7	70°	6785.1	3169.1	758.1	624.6	653.3	615.3	654.4	627.7	566.0	524.9
9432.3	72.5°	6281.7	2633.9	596.8	555.8	580.4	549.6	583.5	552.7	496.2	477.7
8145.2	75°	5196.9	1976.5	459.2	480.8	499.3	475.6	498.2	475.6	424.3	437.6
6016.7	77.5°	3774.2	1334.4	351.3	401.7	409.9	397.6	417.1	391.4	345.2	342.1
2998.6	80°	1876.8	781.7	275.3	317.4	314.3	306.1	328.7	316.4	277.4	293.8
809.5	82.5°	543.4	334.9	200.3	222.9	216.8	218.8	235.2	241.4	361.6	358.5
251.7	85°	170.5	131.5	120.2	124.3	118.1	121.2	138.7	275.3	254.8	149.0
78.1	87.5°	44.2	45.2	29.8	31.8	32.9	39.0	44.2	167.4	80.1	52.4
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>
3505.0
3337.6
2978.0
2481.9
2096.6
1917.9
1789.5
1745.3
1732.0
1681.6
1597.4
1528.6
1463.9
1393.0
1313.9
1224.5
1084.8
1019.0
1060.1
1031.4
913.2
834.1
795.1
745.8
698.5
651.3
608.1
566.0
516.7
462.3
399.6
326.7
290.7
366.7
161.3
55.5
0.0

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