

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: P949206

Luminaire Tested: **GALN-SB4A-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949206
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-SB4A-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 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: 18589 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

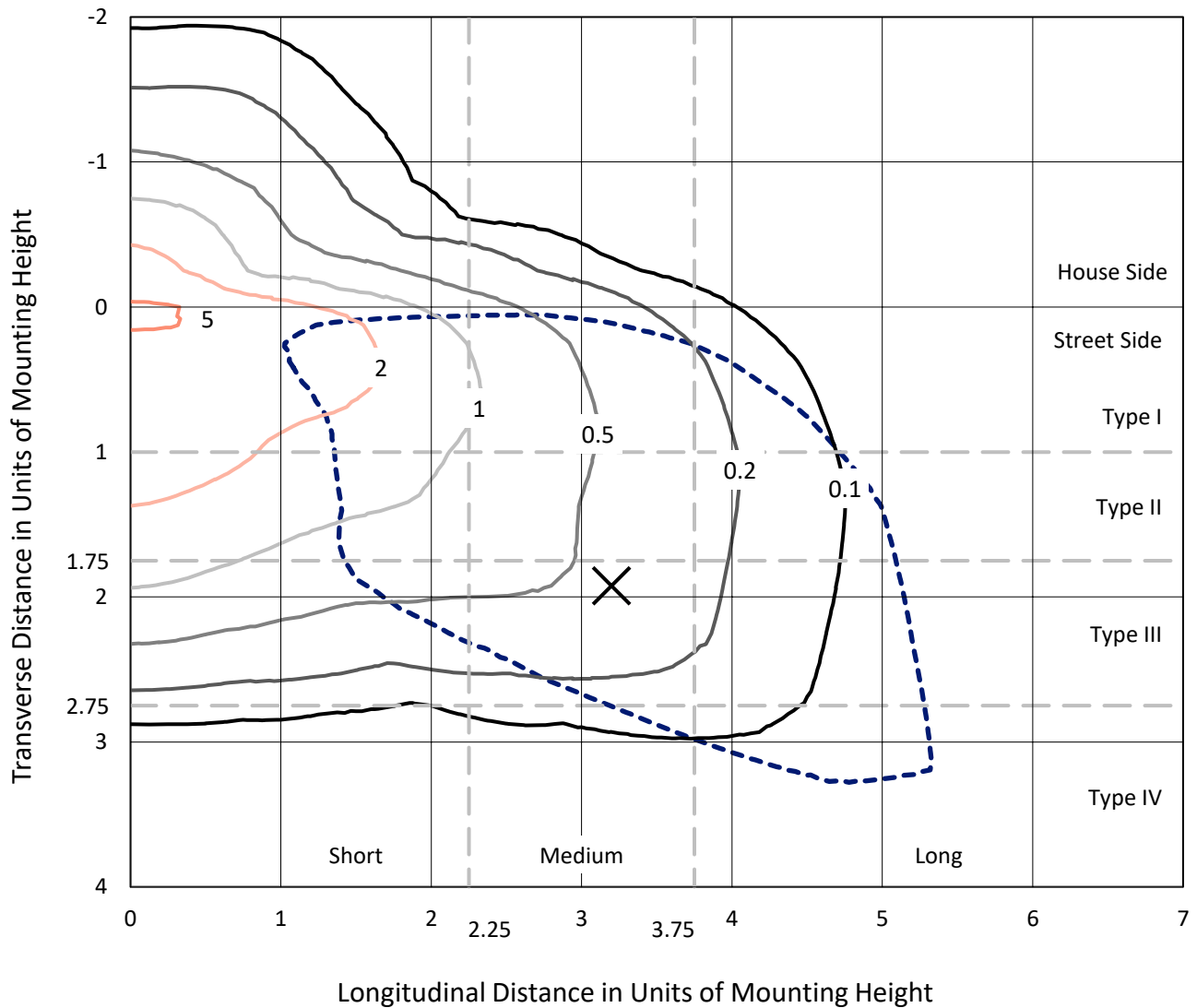
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

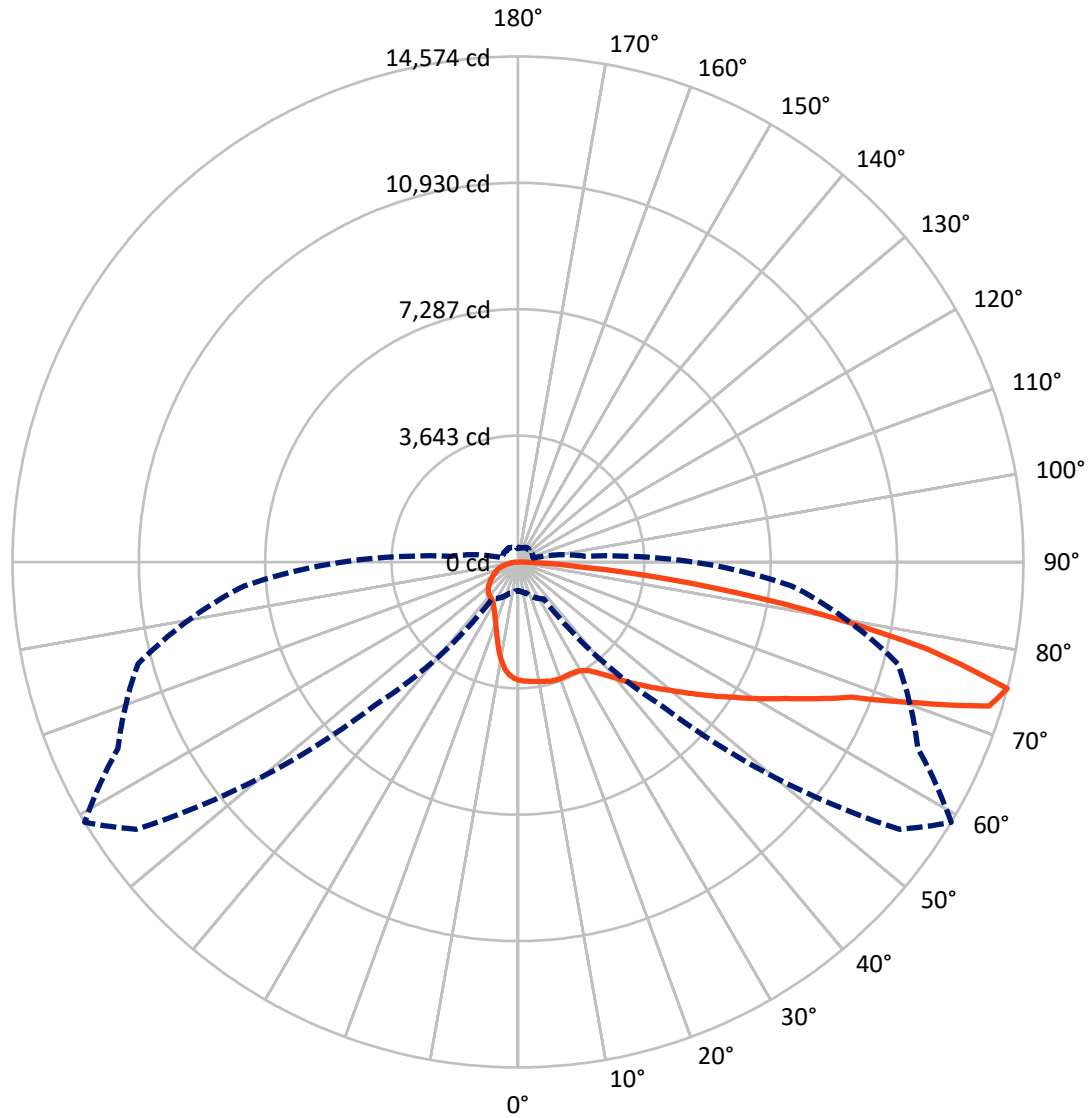
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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
House Side	Lumens	3486.5	0.0	3486.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15102.5	0.0	15102.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	18589.0	0.0	18589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	1.6
10°-20°	782.0	4.2
20°-30°	1187.8	6.4
30°-40°	1765.6	9.5
40°-50°	2625.8	14.1
50°-60°	3564.2	19.2
60°-70°	4351.3	23.4
70°-80°	3414.8	18.4
80°-90°	591.5	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°	18589.0	100.0
0°-180°	18589.0	100.0

Coefficient of Utilization



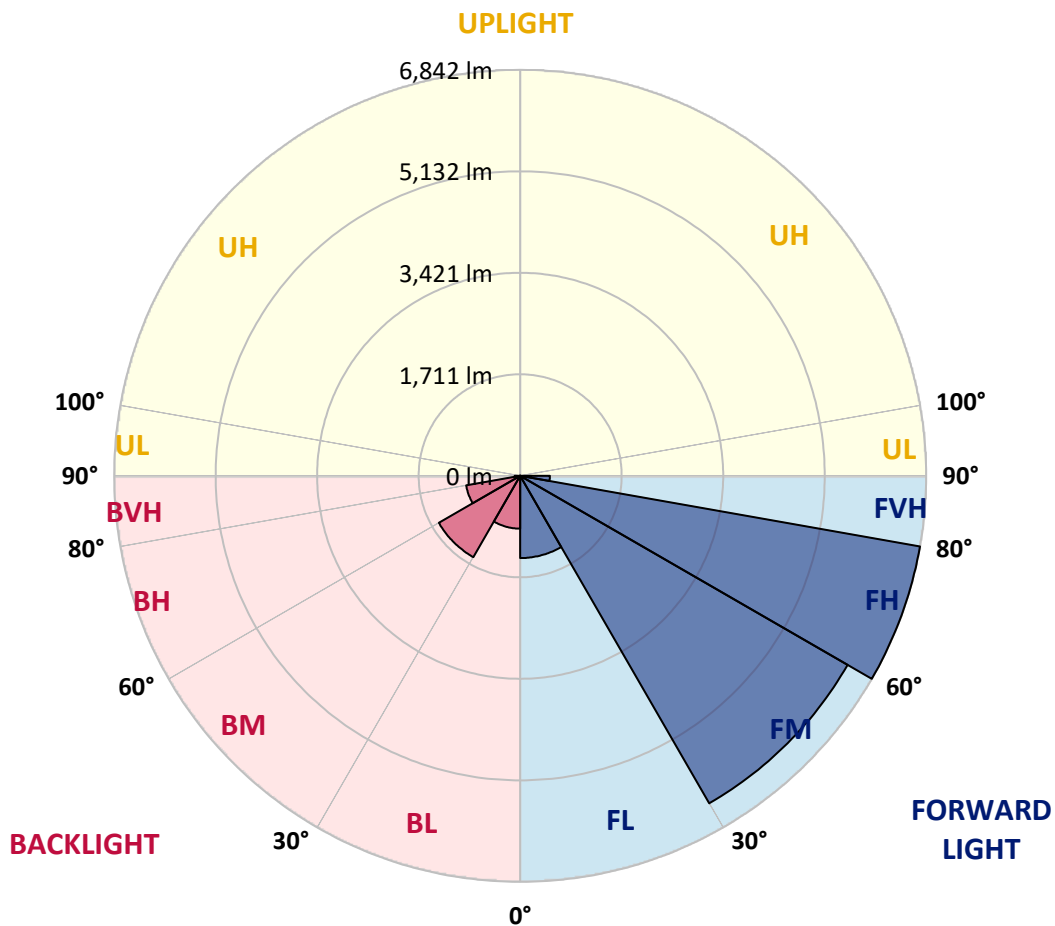
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.0	7.5			
FM (30°-60°)	6373.1	34.3			
FH (60°-80°)	6842.4	36.8			G3/7500
FVH (80°-90°)	501.0	2.7			G4/750
BL (0°-30°)	889.7	4.8	B2/1000		
BM (30°-60°)	1582.5	8.5	B2/2500		
BH (60°-80°)	923.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	90.6	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°	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0
2.5°	3441.0	3429.0	3441.0	3436.0	3434.0	3430.0	3431.0	3438.0	3434.0	3439.0
5°	3418.0	3411.0	3423.0	3420.0	3433.0	3435.0	3448.0	3456.0	3461.0	3462.0
7.5°	3380.0	3373.0	3390.0	3404.0	3432.0	3440.0	3467.0	3480.0	3487.0	3499.0
10°	3241.0	3238.0	3280.0	3333.0	3399.0	3440.0	3481.0	3503.0	3514.0	3546.0
12.5°	2995.0	2999.0	3054.0	3156.0	3288.0	3420.0	3497.0	3529.0	3546.0	3586.0
15°	2760.0	2759.0	2819.0	2928.0	3113.0	3332.0	3505.0	3560.0	3589.0	3648.0
17.5°	2624.0	2620.0	2662.0	2745.0	2917.0	3197.0	3485.0	3577.0	3639.0	3713.0
20°	2599.0	2591.0	2613.0	2654.0	2776.0	3049.0	3433.0	3577.0	3679.0	3775.0
22.5°	2690.0	2677.0	2668.0	2663.0	2717.0	2927.0	3374.0	3565.0	3738.0	3864.0
25°	2873.0	2853.0	2807.0	2762.0	2746.0	2872.0	3322.0	3562.0	3826.0	3984.0
27.5°	3169.0	3144.0	3051.0	2943.0	2846.0	2900.0	3299.0	3580.0	3923.0	4111.0
30°	3536.0	3509.0	3392.0	3226.0	3052.0	3004.0	3328.0	3633.0	4047.0	4280.0
32.5°	3865.0	3835.0	3735.0	3566.0	3331.0	3184.0	3420.0	3734.0	4242.0	4515.0
35°	4157.0	4122.0	4032.0	3876.0	3673.0	3437.0	3586.0	3913.0	4519.0	4897.0
37.5°	4443.0	4402.0	4304.0	4139.0	3997.0	3774.0	3815.0	4143.0	4887.0	5361.0
40°	4763.0	4704.0	4585.0	4422.0	4284.0	4169.0	4116.0	4425.0	5261.0	5878.9
42.5°	5073.0	5017.0	4875.0	4736.0	4563.0	4530.0	4465.0	4755.0	5669.9	6447.9
45°	5407.0	5340.0	5168.0	4992.0	4883.0	4770.0	4803.0	5085.0	6070.9	7027.9
47.5°	5719.9	5644.9	5442.0	5246.0	5186.0	4972.0	5113.0	5448.0	6487.9	7615.9
50°	5888.9	5814.9	5645.9	5469.0	5422.0	5221.0	5449.0	5846.9	6924.9	8201.9
52.5°	6029.9	5949.9	5728.9	5630.9	5616.9	5492.0	5862.9	6302.9	7361.9	8719.9
55°	6179.9	6090.9	5808.9	5720.9	5784.9	5795.9	6353.9	6819.9	7823.9	9224.9
57.5°	6352.9	6239.9	5885.9	5796.9	5948.9	6151.9	6917.9	7355.9	8277.9	9692.9
60°	6515.9	6401.9	6033.9	5917.9	6125.9	6564.9	7564.9	8004.9	8791.9	10109.9
62.5°	6547.9	6453.9	6151.9	6150.9	6365.9	7046.9	8330.9	8659.9	9240.9	10521.9
65°	5993.9	5934.9	5755.9	6141.9	6709.9	7740.9	9183.9	9497.9	9811.9	10881.9
67.5°	4562.0	4570.0	4557.0	5302.0	6431.9	8737.9	10418.9	10394.9	10516.9	11285.9
70°	2086.0	2133.0	2439.0	3660.0	5153.0	8852.9	12460.9	12149.9	11401.9	11808.9
72.5°	1127.0	1163.0	1288.0	1773.0	3098.0	7870.9	13986.9	14207.9	12578.9	12160.9
75°	827.0	847.0	934.0	1127.0	1301.0	5849.9	13439.9	14573.9	12725.9	11339.9
77.5°	619.0	628.0	699.0	893.0	666.0	3084.0	10738.9	12069.9	10893.9	9316.9
80°	449.0	459.0	512.0	670.0	467.0	1128.0	7373.9	8471.9	7460.9	5938.9
82.5°	310.0	314.0	337.0	456.0	326.0	438.0	4184.0	4968.0	4165.0	2084.0
85°	187.0	192.0	202.0	266.0	185.0	208.0	1806.0	1868.0	1245.0	498.0
87.5°	77.0	82.0	90.0	112.0	73.0	58.0	298.0	374.0	233.0	146.0
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°
3412.0	0°	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0	3412.0
3422.0	2.5°	3417.0	3410.0	3391.0	3365.0	3341.0	3311.0	3298.0	3287.0	3277.0	3258.0
3449.0	5°	3438.0	3419.0	3368.0	3302.0	3227.0	3145.0	3065.0	3010.0	2963.0	2928.0
3480.0	7.5°	3470.0	3434.0	3341.0	3206.0	3034.0	2858.0	2699.0	2586.0	2501.0	2470.0
3524.0	10°	3503.0	3460.0	3298.0	3060.0	2763.0	2492.0	2281.0	2165.0	2097.0	2075.0
3576.0	12.5°	3542.0	3479.0	3231.0	2857.0	2460.0	2163.0	1979.0	1911.0	1876.0	1864.0
3640.0	15°	3599.0	3495.0	3130.0	2603.0	2171.0	1923.0	1804.0	1757.0	1739.0	1738.0
3706.0	17.5°	3642.0	3498.0	2973.0	2331.0	1949.0	1778.0	1680.0	1662.0	1674.0	1692.0
3771.0	20°	3690.0	3471.0	2767.0	2083.0	1793.0	1651.0	1610.0	1622.0	1651.0	1677.0
3857.0	22.5°	3724.0	3422.0	2518.0	1890.0	1658.0	1578.0	1576.0	1601.0	1617.0	1630.0
3958.0	25°	3754.0	3339.0	2254.0	1728.0	1547.0	1534.0	1556.0	1548.0	1537.0	1548.0
4059.0	27.5°	3776.0	3208.0	2018.0	1586.0	1469.0	1504.0	1491.0	1473.0	1472.0	1478.0
4178.0	30°	3769.0	3033.0	1824.0	1451.0	1414.0	1448.0	1417.0	1414.0	1411.0	1414.0
4357.0	32.5°	3769.0	2834.0	1675.0	1358.0	1379.0	1366.0	1363.0	1356.0	1344.0	1343.0
4600.0	35°	3790.0	2635.0	1547.0	1308.0	1350.0	1319.0	1321.0	1304.0	1279.0	1267.0
4922.0	37.5°	3833.0	2475.0	1420.0	1284.0	1299.0	1298.0	1290.0	1261.0	1217.0	1179.0
5324.0	40°	3937.0	2428.0	1333.0	1273.0	1275.0	1287.0	1266.0	1210.0	1110.0	1048.0
5731.9	42.5°	4100.0	2507.0	1314.0	1246.0	1259.0	1271.0	1230.0	1100.0	1029.0	992.0
6159.9	45°	4307.0	2645.0	1355.0	1207.0	1221.0	1242.0	1120.0	1058.0	1026.0	1027.0
6583.9	47.5°	4569.0	2790.0	1431.0	1173.0	1166.0	1178.0	1047.0	1009.0	965.0	976.0
6990.9	50°	4872.0	2937.0	1503.0	1127.0	1105.0	1066.0	1000.0	964.0	908.0	882.0
7383.9	52.5°	5200.0	3079.0	1532.0	1071.0	1039.0	994.0	968.0	924.0	856.0	813.0
7754.9	55°	5511.0	3208.0	1500.0	1004.0	973.0	938.0	934.0	907.0	834.0	774.0
8084.9	57.5°	5804.9	3316.0	1420.0	936.0	906.0	885.0	912.0	899.0	807.0	730.0
8396.9	60°	6053.9	3390.0	1304.0	867.0	846.0	835.0	876.0	872.0	769.0	683.0
8676.9	62.5°	6251.9	3419.0	1176.0	801.0	796.0	776.0	826.0	826.0	721.0	637.0
8922.9	65°	6406.9	3391.0	1046.0	736.0	746.0	716.0	765.0	759.0	670.0	596.0
9205.9	67.5°	6543.9	3299.0	902.0	672.0	695.0	657.0	701.0	687.0	614.0	555.0
9450.9	70°	6604.9	3085.0	738.0	608.0	636.0	599.0	637.0	611.0	551.0	511.0
9181.9	72.5°	6114.9	2564.0	581.0	541.0	565.0	535.0	568.0	538.0	483.0	465.0
7928.9	75°	5059.0	1924.0	447.0	468.0	486.0	463.0	485.0	463.0	413.0	426.0
5856.9	77.5°	3674.0	1299.0	342.0	391.0	399.0	387.0	406.0	381.0	336.0	333.0
2919.0	80°	1827.0	761.0	268.0	309.0	306.0	298.0	320.0	308.0	270.0	286.0
788.0	82.5°	529.0	326.0	195.0	217.0	211.0	213.0	229.0	235.0	352.0	349.0
245.0	85°	166.0	128.0	117.0	121.0	115.0	118.0	135.0	268.0	248.0	145.0
76.0	87.5°	43.0	44.0	29.0	31.0	32.0	38.0	43.0	163.0	78.0	51.0
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>
3412.0
3249.0
2899.0
2416.0
2041.0
1867.0
1742.0
1699.0
1686.0
1637.0
1555.0
1488.0
1425.0
1356.0
1279.0
1192.0
1056.0
992.0
1032.0
1004.0
889.0
812.0
774.0
726.0
680.0
634.0
592.0
551.0
503.0
450.0
389.0
318.0
283.0
357.0
157.0
54.0
0.0

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