

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: P949626

Luminaire Tested: **GALN-SB4B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949626
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-SB4B-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19179 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

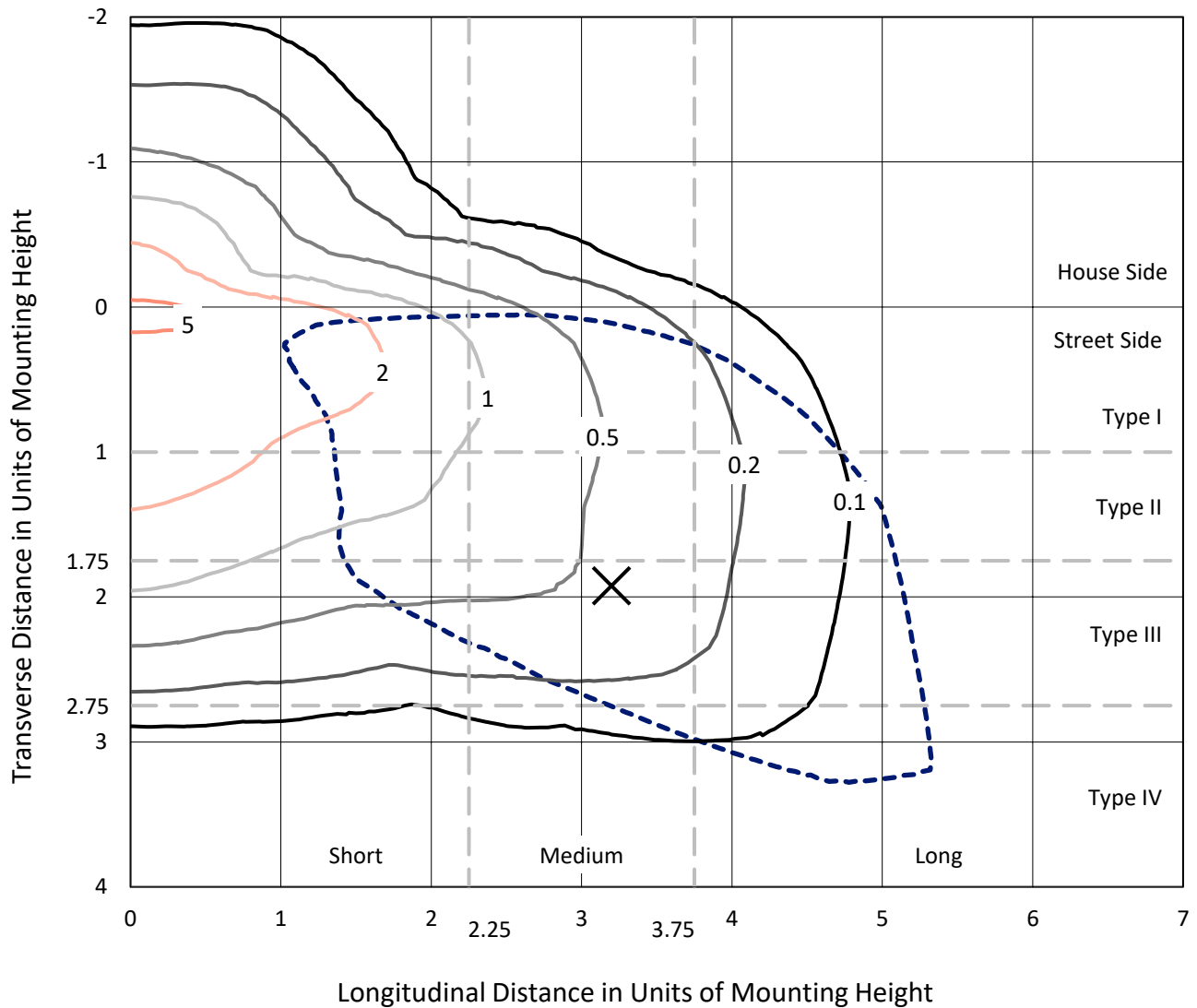
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

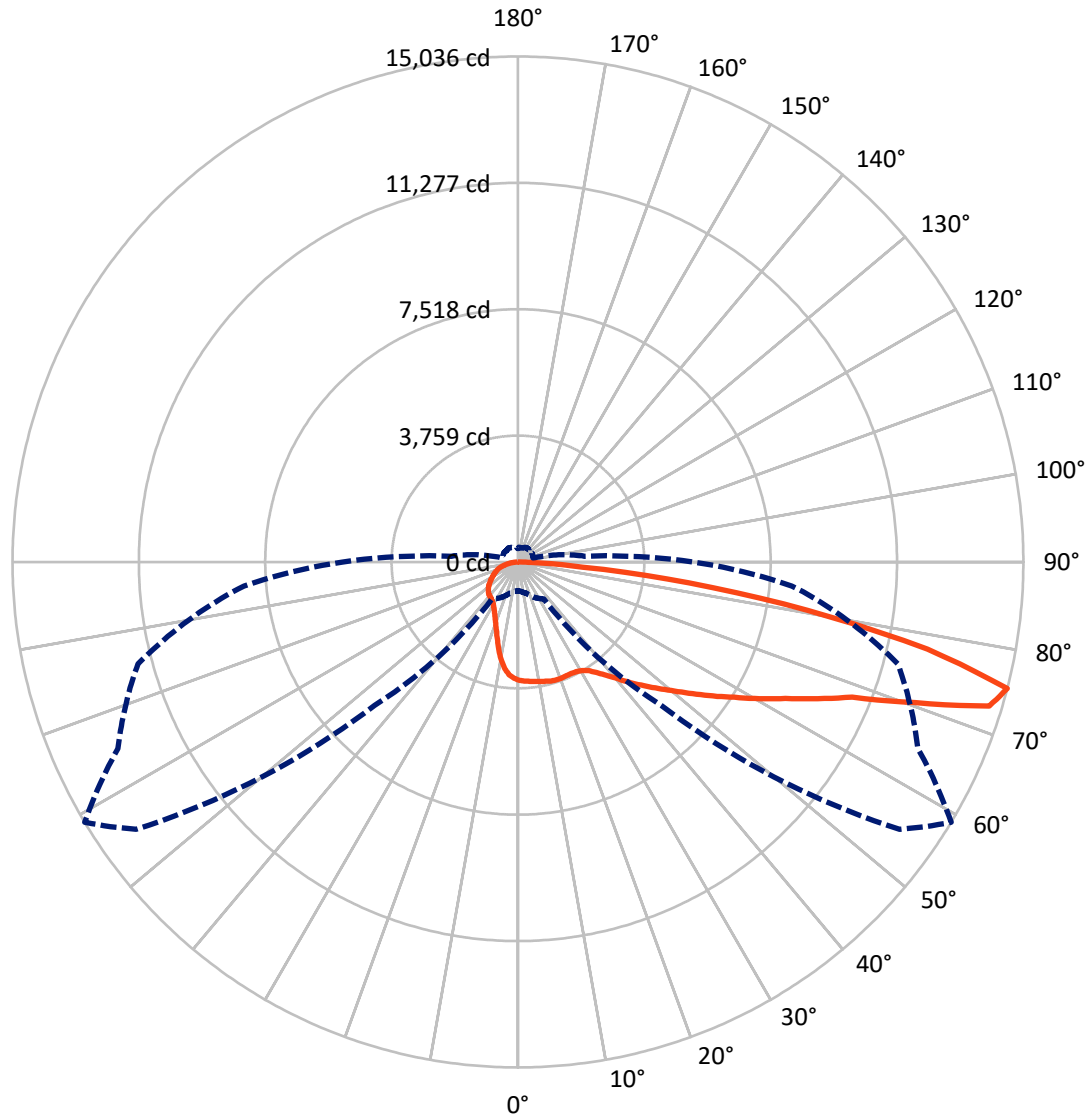
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	3597.2	0.0	3597.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15581.9	0.0	15581.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	19179.0	0.0	19179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	1.6
10°-20°	806.8	4.2
20°-30°	1225.5	6.4
30°-40°	1821.7	9.5
40°-50°	2709.1	14.1
50°-60°	3677.3	19.2
60°-70°	4489.4	23.4
70°-80°	3523.2	18.4
80°-90°	610.3	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°	19179.0	100.0
0°-180°	19179.0	100.0

Coefficient of Utilization



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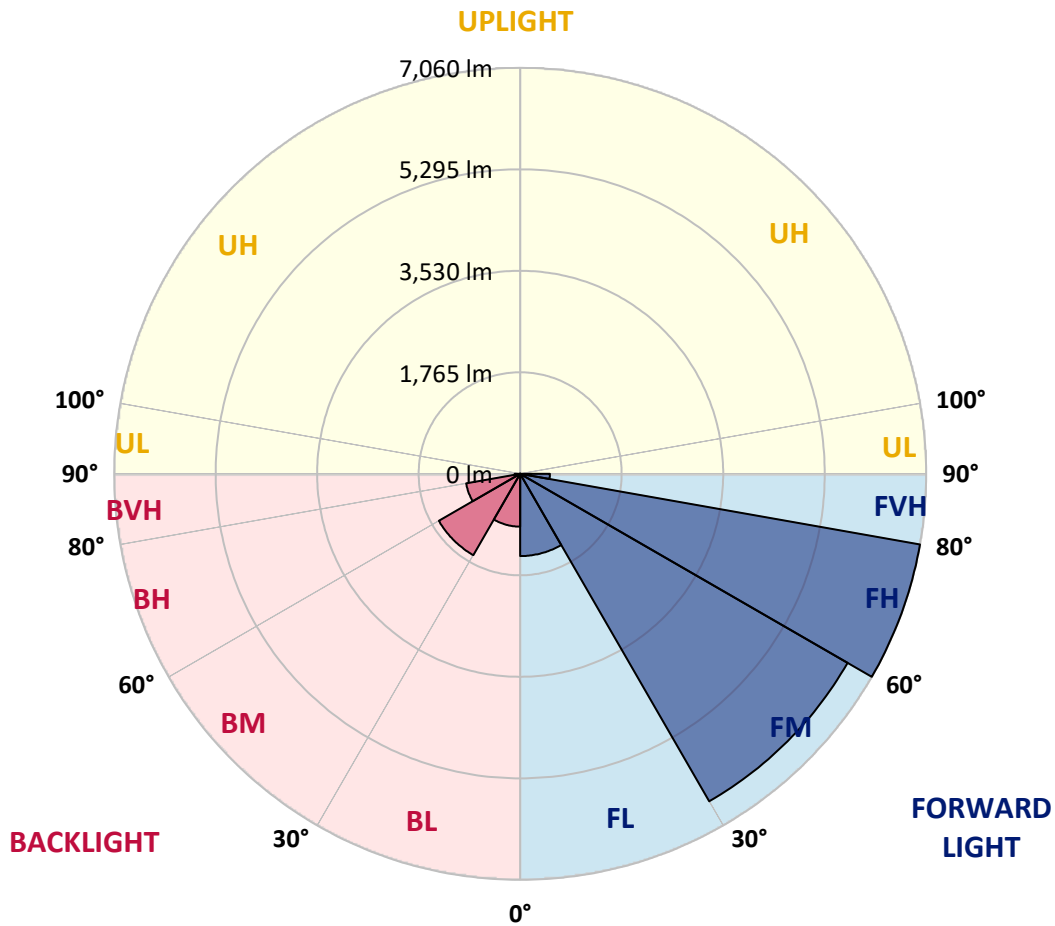
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.0	7.5			
FM (30°-60°)	6575.4	34.3			
FH (60°-80°)	7059.6	36.8			G3/7500
FVH (80°-90°)	516.9	2.7			G4/750
BL (0°-30°)	918.0	4.8	B2/1000		
BM (30°-60°)	1632.7	8.5	B2/2500		
BH (60°-80°)	953.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	93.4	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°	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3
2.5°	3550.2	3537.8	3550.2	3545.0	3543.0	3538.8	3539.9	3547.1	3543.0	3548.1
5°	3526.5	3519.2	3531.6	3528.5	3541.9	3544.0	3557.4	3565.7	3570.8	3571.8
7.5°	3487.2	3480.0	3497.6	3512.0	3540.9	3549.2	3577.0	3590.4	3597.6	3610.0
10°	3343.8	3340.7	3384.1	3438.8	3506.9	3549.2	3591.5	3614.2	3625.5	3658.5
12.5°	3090.0	3094.2	3150.9	3256.1	3392.3	3528.5	3608.0	3641.0	3658.5	3699.8
15°	2847.6	2846.5	2908.4	3020.9	3211.8	3437.7	3616.2	3673.0	3702.9	3763.8
17.5°	2707.3	2703.1	2746.5	2832.1	3009.6	3298.4	3595.6	3690.5	3754.5	3830.8
20°	2681.5	2673.2	2695.9	2738.2	2864.1	3145.7	3541.9	3690.5	3795.7	3894.8
22.5°	2775.4	2761.9	2752.7	2747.5	2803.2	3019.9	3481.1	3678.1	3856.6	3986.6
25°	2964.2	2943.5	2896.1	2849.6	2833.1	2963.1	3427.4	3675.0	3947.4	4110.4
27.5°	3269.6	3243.8	3147.8	3036.4	2936.3	2992.0	3403.7	3693.6	4047.5	4241.4
30°	3648.2	3620.3	3499.6	3328.4	3148.8	3099.3	3433.6	3748.3	4175.4	4415.8
32.5°	3987.6	3956.7	3853.5	3679.1	3436.7	3285.0	3528.5	3852.5	4376.6	4658.3
35°	4288.9	4252.8	4159.9	3999.0	3789.5	3546.1	3699.8	4037.2	4662.4	5052.4
37.5°	4584.0	4541.7	4440.6	4270.3	4123.8	3893.7	3936.0	4274.5	5042.1	5531.1
40°	4914.1	4853.3	4730.5	4562.3	4419.9	4301.3	4246.6	4565.4	5427.9	6065.5
42.5°	5234.0	5176.2	5029.7	4886.3	4707.8	4673.7	4606.7	4905.9	5849.9	6652.6
45°	5578.6	5509.4	5332.0	5150.4	5037.9	4921.4	4955.4	5246.3	6263.6	7251.0
47.5°	5901.5	5824.1	5614.7	5412.5	5350.6	5129.8	5275.2	5620.9	6693.9	7857.7
50°	6075.9	5999.5	5825.1	5642.5	5594.0	5386.7	5621.9	6032.5	7144.7	8462.2
52.5°	6221.3	6138.8	5910.8	5809.7	5795.2	5666.3	6049.0	6503.0	7595.6	8996.7
55°	6376.1	6284.3	5993.3	5902.5	5968.6	5979.9	6555.6	7036.4	8072.3	9517.7
57.5°	6554.6	6438.0	6072.8	5980.9	6137.8	6347.2	7137.5	7589.4	8540.7	10000.6
60°	6722.8	6605.1	6225.5	6105.8	6320.4	6773.3	7805.0	8259.0	9071.0	10430.8
62.5°	6755.8	6658.8	6347.2	6346.2	6568.0	7270.6	8595.3	8934.8	9534.2	10855.9
65°	6184.2	6123.3	5938.6	6336.9	6922.9	7986.6	9475.4	9799.4	10123.3	11227.3
67.5°	4706.8	4715.0	4701.6	5470.2	6636.1	9015.3	10749.6	10724.8	10850.7	11644.1
70°	2152.2	2200.7	2516.4	3776.1	5316.5	9133.9	12856.4	12535.5	11763.8	12183.7
72.5°	1162.8	1199.9	1328.9	1829.3	3196.3	8120.7	14430.8	14658.8	12978.1	12546.9
75°	853.2	873.9	963.6	1162.8	1342.3	6035.6	13866.5	15036.4	13129.8	11699.8
77.5°	638.6	647.9	721.2	921.3	687.1	3181.9	11079.7	12453.0	11239.7	9612.6
80°	463.2	473.6	528.2	691.3	481.8	1163.8	7608.0	8740.8	7697.7	6127.4
82.5°	319.8	324.0	347.7	470.5	336.3	451.9	4316.8	5125.6	4297.2	2150.1
85°	192.9	198.1	208.4	274.4	190.9	214.6	1863.3	1927.3	1284.5	513.8
87.5°	79.4	84.6	92.9	115.6	75.3	59.8	307.5	385.9	240.4	150.6
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°
3520.3	0°	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3	3520.3
3530.6	2.5°	3525.4	3518.2	3498.6	3471.8	3447.0	3416.1	3402.6	3391.3	3381.0	3361.4
3558.4	5°	3547.1	3527.5	3474.9	3406.8	3329.4	3244.8	3162.3	3105.5	3057.0	3020.9
3590.4	7.5°	3580.1	3543.0	3447.0	3307.7	3130.3	2948.7	2784.6	2668.1	2580.4	2548.4
3635.8	10°	3614.2	3569.8	3402.6	3157.1	2850.7	2571.1	2353.4	2233.7	2163.5	2140.8
3689.5	12.5°	3654.4	3589.4	3333.5	2947.7	2538.1	2231.6	2041.8	1971.6	1935.5	1923.1
3755.5	15°	3713.2	3605.9	3229.3	2685.6	2239.9	1984.0	1861.2	1812.7	1794.2	1793.1
3823.6	17.5°	3757.6	3609.0	3067.3	2405.0	2010.8	1834.4	1733.3	1714.7	1727.1	1745.7
3890.7	20°	3807.1	3581.1	2854.8	2149.1	1849.9	1703.4	1661.1	1673.5	1703.4	1730.2
3979.4	22.5°	3842.2	3530.6	2597.9	1950.0	1710.6	1628.1	1626.0	1651.8	1668.3	1681.7
4083.6	25°	3873.1	3444.9	2325.5	1782.8	1596.1	1582.7	1605.4	1597.1	1585.8	1597.1
4187.8	27.5°	3895.8	3309.8	2082.0	1636.3	1515.6	1551.7	1538.3	1519.7	1518.7	1524.9
4310.6	30°	3888.6	3129.2	1881.9	1497.0	1458.9	1493.9	1462.0	1458.9	1455.8	1458.9
4495.2	32.5°	3888.6	2923.9	1728.1	1401.1	1422.8	1409.3	1406.2	1399.0	1386.6	1385.6
4746.0	35°	3910.3	2718.6	1596.1	1349.5	1392.8	1360.9	1362.9	1345.4	1319.6	1307.2
5078.2	37.5°	3954.6	2553.5	1465.1	1324.7	1340.2	1339.2	1330.9	1301.0	1255.6	1216.4
5492.9	40°	4061.9	2505.0	1375.3	1313.4	1315.5	1327.8	1306.2	1248.4	1145.2	1081.3
5913.9	42.5°	4230.1	2586.5	1355.7	1285.5	1298.9	1311.3	1269.0	1134.9	1061.7	1023.5
6355.5	45°	4443.7	2728.9	1398.0	1245.3	1259.7	1281.4	1155.5	1091.6	1058.6	1059.6
6792.9	47.5°	4714.0	2878.5	1476.4	1210.2	1203.0	1215.4	1080.2	1041.0	995.6	1007.0
7212.8	50°	5026.6	3030.2	1550.7	1162.8	1140.1	1099.8	1031.7	994.6	936.8	910.0
7618.3	52.5°	5365.0	3176.7	1580.6	1105.0	1072.0	1025.5	998.7	953.3	883.2	838.8
8001.1	55°	5685.9	3309.8	1547.6	1035.9	1003.9	967.8	963.6	935.8	860.5	798.6
8341.5	57.5°	5989.2	3421.2	1465.1	965.7	934.7	913.1	940.9	927.5	832.6	753.2
8663.4	60°	6246.1	3497.6	1345.4	894.5	872.8	861.5	903.8	899.7	793.4	704.7
8952.3	62.5°	6450.4	3527.5	1213.3	826.4	821.3	800.6	852.2	852.2	743.9	657.2
9206.1	65°	6610.3	3498.6	1079.2	759.4	769.7	738.7	789.3	783.1	691.3	614.9
9498.1	67.5°	6751.6	3403.7	930.6	693.3	717.1	677.8	723.2	708.8	633.5	572.6
9750.9	70°	6814.6	3182.9	761.4	627.3	656.2	618.0	657.2	630.4	568.5	527.2
9473.3	72.5°	6309.0	2645.4	599.4	558.2	582.9	552.0	586.0	555.1	498.3	479.8
8180.6	75°	5219.5	1985.0	461.2	482.8	501.4	477.7	500.4	477.7	426.1	439.5
6042.8	77.5°	3790.6	1340.2	352.9	403.4	411.7	399.3	418.9	393.1	346.7	343.6
3011.6	80°	1885.0	785.1	276.5	318.8	315.7	307.5	330.2	317.8	278.6	295.1
813.0	82.5°	545.8	336.3	201.2	223.9	217.7	219.8	236.3	242.5	363.2	360.1
252.8	85°	171.3	132.1	120.7	124.8	118.6	121.7	139.3	276.5	255.9	149.6
78.4	87.5°	44.4	45.4	29.9	32.0	33.0	39.2	44.4	168.2	80.5	52.6
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>
3520.3
3352.1
2991.0
2492.7
2105.8
1926.2
1797.3
1752.9
1739.5
1688.9
1604.3
1535.2
1470.2
1399.0
1319.6
1229.8
1089.5
1023.5
1064.7
1035.9
917.2
837.8
798.6
749.0
701.6
654.1
610.8
568.5
519.0
464.3
401.3
328.1
292.0
368.3
162.0
55.7
0.0

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