

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: P952650

Luminaire Tested: **GALN-SB6B-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952650
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-SB6B-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 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: 24183 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

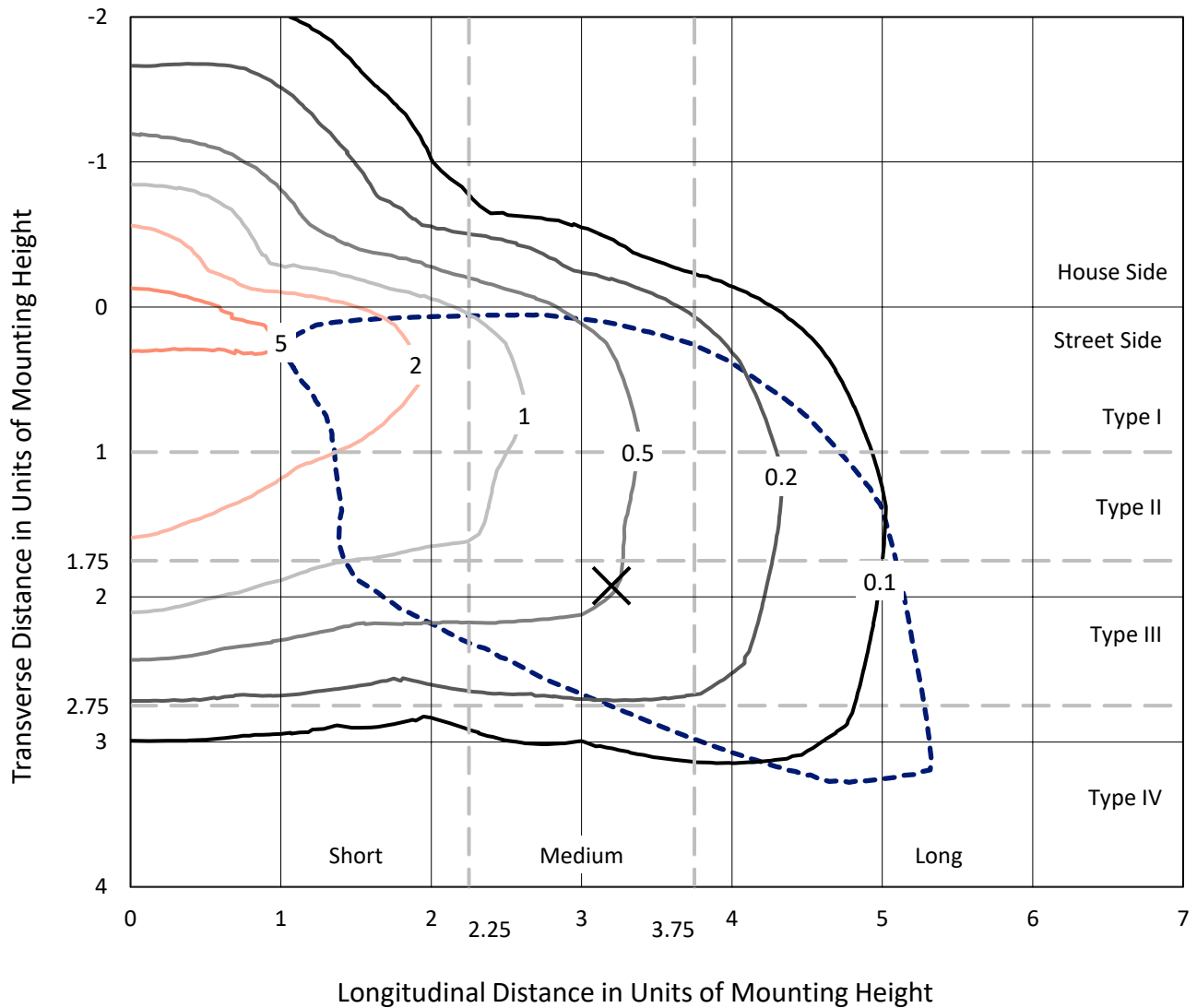
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

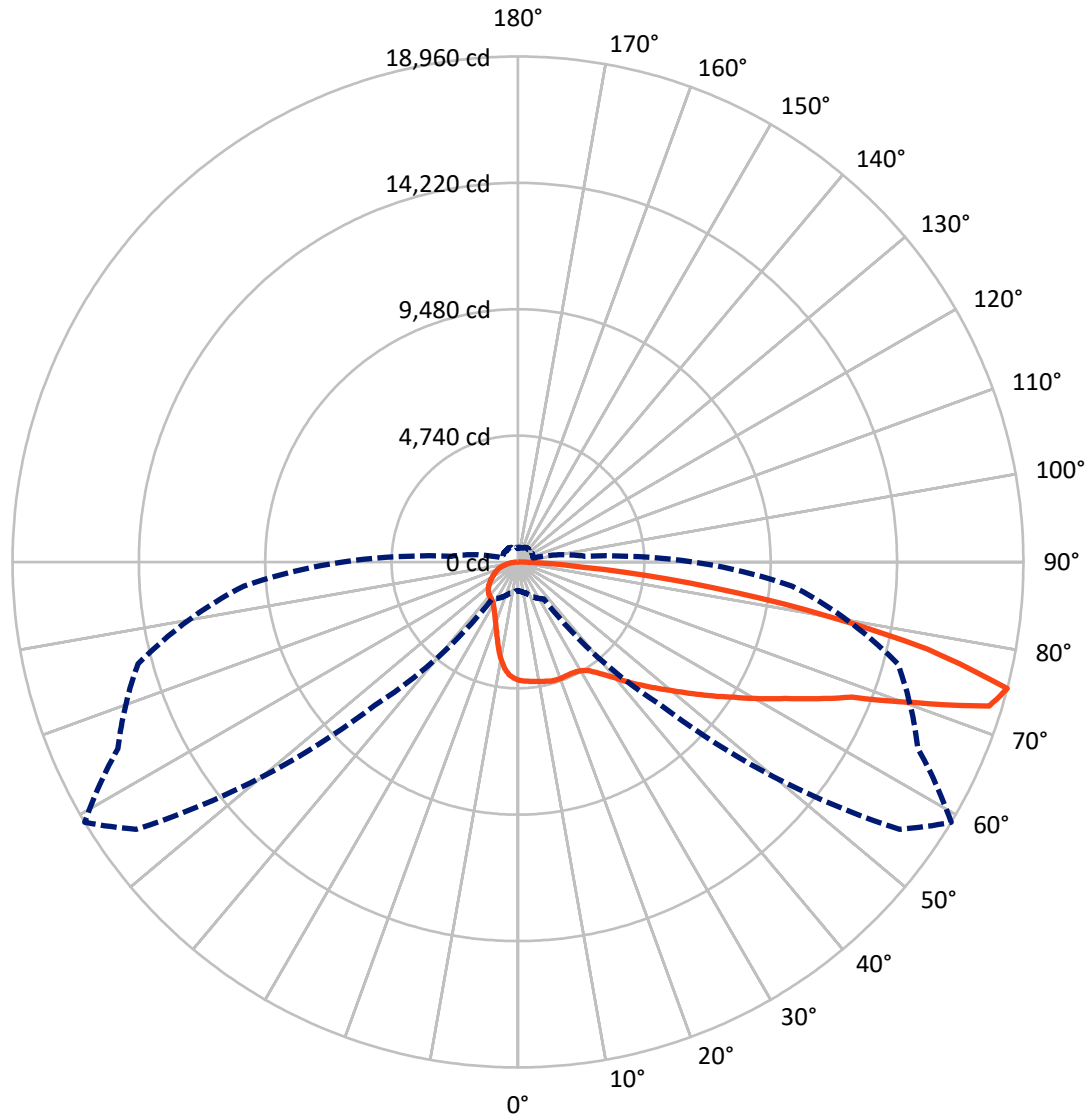
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	4535.7	0.0	4535.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19647.3	0.0	19647.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	24183.0	0.0	24183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	1.6
10°-20°	1017.3	4.2
20°-30°	1545.2	6.4
30°-40°	2296.9	9.5
40°-50°	3416.0	14.1
50°-60°	4636.8	19.2
60°-70°	5660.7	23.4
70°-80°	4442.5	18.4
80°-90°	769.5	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°	24183.0	100.0
0°-180°	24183.0	100.0

Coefficient of Utilization



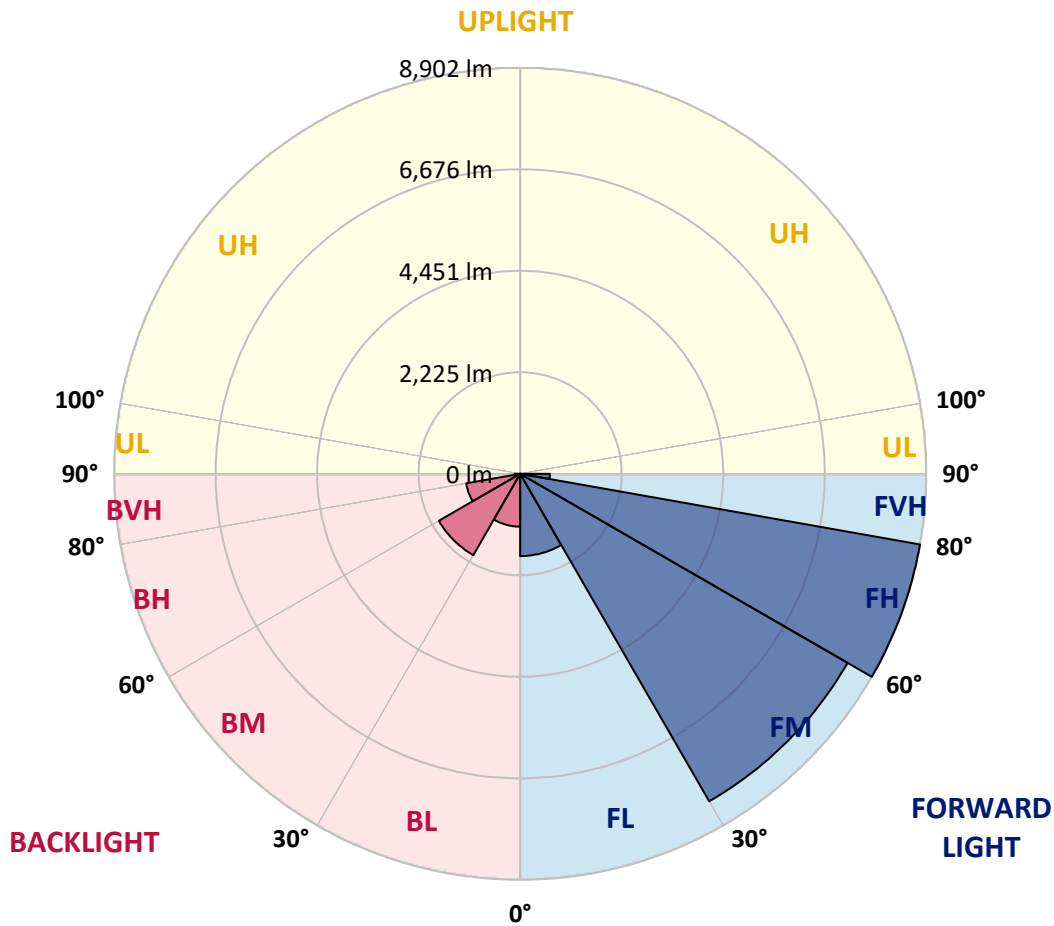
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.1	7.5			
FM (30°-60°)	8290.9	34.3			
FH (60°-80°)	8901.5	36.8			G4/12000
FVH (80°-90°)	651.7	2.7			G4/750
BL (0°-30°)	1157.5	4.8	B3/2500		
BM (30°-60°)	2058.7	8.5	B2/2500		
BH (60°-80°)	1201.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	117.8	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°	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7
2.5°	4476.5	4460.9	4476.5	4470.0	4467.4	4462.2	4463.5	4472.6	4467.4	4473.9
5°	4446.5	4437.4	4453.0	4449.1	4466.1	4468.7	4485.6	4496.0	4502.5	4503.8
7.5°	4397.1	4388.0	4410.1	4428.3	4464.8	4475.2	4510.3	4527.2	4536.3	4551.9
10°	4216.3	4212.4	4267.0	4336.0	4421.8	4475.2	4528.5	4557.1	4571.4	4613.1
12.5°	3896.3	3901.5	3973.0	4105.7	4277.4	4449.1	4549.3	4590.9	4613.1	4665.1
15°	3590.5	3589.2	3667.3	3809.1	4049.8	4334.7	4559.7	4631.3	4669.0	4745.8
17.5°	3413.6	3408.4	3463.0	3571.0	3794.8	4159.0	4533.7	4653.4	4734.0	4830.3
20°	3381.1	3370.7	3399.3	3452.6	3611.4	3966.5	4466.1	4653.4	4786.1	4911.0
22.5°	3499.5	3482.6	3470.9	3464.3	3534.6	3807.8	4389.3	4637.8	4862.8	5026.8
25°	3737.5	3711.5	3651.7	3593.1	3572.3	3736.2	4321.7	4633.9	4977.3	5182.9
27.5°	4122.6	4090.1	3969.1	3828.6	3702.4	3772.7	4291.7	4657.3	5103.5	5348.1
30°	4600.0	4564.9	4412.7	4196.8	3970.4	3908.0	4329.5	4726.2	5264.8	5567.9
32.5°	5028.1	4989.0	4858.9	4639.1	4333.4	4142.1	4449.1	4857.6	5518.5	5873.6
35°	5407.9	5362.4	5245.3	5042.4	4778.3	4471.3	4665.1	5090.5	5878.9	6370.6
37.5°	5780.0	5726.6	5599.2	5384.5	5199.8	4909.7	4963.0	5389.7	6357.6	6974.2
40°	6196.3	6119.5	5964.7	5752.7	5573.1	5423.5	5354.6	5756.6	6844.1	7648.1
42.5°	6599.6	6526.7	6342.0	6161.2	5936.1	5893.2	5808.6	6185.9	7376.2	8388.3
45°	7034.1	6946.9	6723.1	6494.2	6352.4	6205.4	6248.3	6615.2	7897.9	9142.9
47.5°	7441.3	7343.7	7079.6	6824.6	6746.6	6468.2	6651.6	7087.4	8440.4	9907.8
50°	7661.1	7564.8	7345.0	7114.7	7053.6	6792.1	7088.7	7606.5	9008.9	10670.1
52.5°	7844.5	7740.5	7453.0	7325.5	7307.3	7144.6	7627.3	8199.7	9577.4	11344.0
55°	8039.7	7923.9	7557.0	7442.6	7525.8	7540.1	8266.0	8872.3	10178.4	12001.0
57.5°	8264.7	8117.7	7657.2	7541.4	7739.2	8003.3	8999.8	9569.6	10769.0	12609.8
60°	8476.8	8328.5	7849.7	7698.8	7969.4	8540.5	9841.5	10413.9	11437.7	13152.3
62.5°	8518.4	8396.1	8003.3	8002.0	8281.7	9167.6	10838.0	11266.0	12021.8	13688.3
65°	7797.7	7721.0	7488.1	7990.2	8729.2	10070.4	11947.6	12356.1	12764.6	14156.6
67.5°	5934.8	5945.2	5928.3	6897.5	8367.5	11367.4	13554.3	13523.1	13681.8	14682.2
70°	2713.7	2774.9	3172.9	4761.4	6703.6	11517.0	16210.8	15806.2	14833.1	15362.6
72.5°	1466.1	1513.0	1675.6	2306.5	4030.2	10239.5	18196.0	18483.5	16364.3	15820.5
75°	1075.9	1101.9	1215.1	1466.1	1692.5	7610.4	17484.4	18959.6	16555.5	14752.4
77.5°	805.3	817.0	909.3	1161.7	866.4	4012.0	13970.6	15702.1	14172.2	12120.7
80°	584.1	597.1	666.1	871.6	607.5	1467.4	9593.0	11021.4	9706.2	7726.2
82.5°	403.3	408.5	438.4	593.2	424.1	569.8	5443.0	6463.0	5418.3	2711.1
85°	243.3	249.8	262.8	346.0	240.7	270.6	2349.5	2430.1	1619.6	647.9
87.5°	100.2	106.7	117.1	145.7	95.0	75.5	387.7	486.5	303.1	189.9
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°
4438.7	0°	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7	4438.7
4451.7	2.5°	4445.2	4436.1	4411.4	4377.6	4346.4	4307.3	4290.4	4276.1	4263.1	4238.4
4486.9	5°	4472.6	4447.8	4381.5	4295.6	4198.1	4091.4	3987.3	3915.8	3854.6	3809.1
4527.2	7.5°	4514.2	4467.4	4346.4	4170.7	3947.0	3718.0	3511.2	3364.2	3253.6	3213.3
4584.4	10°	4557.1	4501.2	4290.4	3980.8	3594.4	3241.9	2967.4	2816.5	2728.0	2699.4
4652.1	12.5°	4607.9	4525.9	4203.3	3716.7	3200.3	2813.9	2574.5	2486.1	2440.5	2424.9
4735.3	15°	4682.0	4546.7	4071.9	3386.3	2824.3	2501.7	2346.9	2285.7	2262.3	2261.0
4821.2	17.5°	4737.9	4550.6	3867.6	3032.4	2535.5	2313.0	2185.5	2162.1	2177.7	2201.2
4905.8	20°	4800.4	4515.5	3599.6	2709.8	2332.5	2147.8	2094.5	2110.1	2147.8	2181.6
5017.6	22.5°	4844.6	4451.7	3275.7	2458.7	2156.9	2052.9	2050.2	2082.8	2103.6	2120.5
5149.0	25°	4883.7	4343.8	2932.3	2248.0	2012.5	1995.6	2024.2	2013.8	1999.5	2013.8
5280.4	27.5°	4912.3	4173.3	2625.3	2063.3	1911.1	1956.6	1939.7	1916.3	1915.0	1922.8
5435.2	30°	4903.2	3945.7	2372.9	1887.6	1839.5	1883.7	1843.4	1839.5	1835.6	1839.5
5668.1	32.5°	4903.2	3686.8	2179.0	1766.6	1794.0	1777.1	1773.2	1764.0	1748.4	1747.1
5984.2	35°	4930.5	3427.9	2012.5	1701.6	1756.2	1715.9	1718.5	1696.4	1663.9	1648.3
6403.1	37.5°	4986.4	3219.8	1847.3	1670.4	1689.9	1688.6	1678.2	1640.5	1583.2	1533.8
6926.1	40°	5121.7	3158.6	1734.1	1656.1	1658.7	1674.3	1647.0	1574.1	1444.0	1363.4
7456.9	42.5°	5333.8	3261.4	1709.4	1620.9	1637.9	1653.5	1600.1	1431.0	1338.6	1290.5
8013.7	45°	5603.1	3440.9	1762.7	1570.2	1588.4	1615.7	1457.0	1376.4	1334.7	1336.0
8565.3	47.5°	5943.9	3629.6	1861.6	1526.0	1516.9	1532.5	1362.1	1312.6	1255.4	1269.7
9094.7	50°	6338.1	3820.8	1955.3	1466.1	1437.5	1386.8	1300.9	1254.1	1181.2	1147.4
9606.0	52.5°	6764.8	4005.5	1993.0	1393.3	1351.7	1293.1	1259.3	1202.0	1113.6	1057.6
10088.6	55°	7169.4	4173.3	1951.4	1306.1	1265.8	1220.3	1215.1	1179.9	1085.0	1006.9
10517.9	57.5°	7551.8	4313.8	1847.3	1217.7	1178.6	1151.3	1186.4	1169.5	1049.8	949.7
10923.8	60°	7875.8	4410.1	1696.4	1127.9	1100.6	1086.3	1139.6	1134.4	1000.4	888.5
11288.1	62.5°	8133.3	4447.8	1529.9	1042.0	1035.5	1009.5	1074.6	1074.6	938.0	828.7
11608.1	65°	8335.0	4411.4	1360.8	957.5	970.5	931.5	995.2	987.4	871.6	775.3
11976.3	67.5°	8513.2	4291.7	1173.4	874.2	904.1	854.7	911.9	893.7	798.8	722.0
12295.0	70°	8592.6	4013.3	960.1	791.0	827.4	779.3	828.7	794.9	716.8	664.8
11945.0	72.5°	7955.1	3335.6	755.8	703.8	735.0	696.0	738.9	699.9	628.3	604.9
10315.0	75°	6581.3	2503.0	581.5	608.8	632.2	602.3	630.9	602.3	537.3	554.2
7619.5	77.5°	4779.6	1689.9	444.9	508.7	519.1	503.5	528.2	495.7	437.1	433.2
3797.4	80°	2376.8	990.0	348.6	402.0	398.1	387.7	416.3	400.7	351.2	372.1
1025.1	82.5°	688.2	424.1	253.7	282.3	274.5	277.1	297.9	305.7	457.9	454.0
318.7	85°	216.0	166.5	152.2	157.4	149.6	153.5	175.6	348.6	322.6	188.6
98.9	87.5°	55.9	57.2	37.7	40.3	41.6	49.4	55.9	212.0	101.5	66.3
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>
4438.7
4226.7
3771.4
3143.0
2655.2
2428.8
2266.2
2210.3
2193.3
2129.6
2022.9
1935.8
1853.8
1764.0
1663.9
1550.7
1373.8
1290.5
1342.5
1306.1
1156.5
1056.3
1006.9
944.5
884.6
824.8
770.1
716.8
654.4
585.4
506.1
413.7
368.2
464.4
204.2
70.2
0.0

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