

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: P951600

Luminaire Tested: **GALN-SB5C-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951600
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-SB5C-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 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: 25720 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

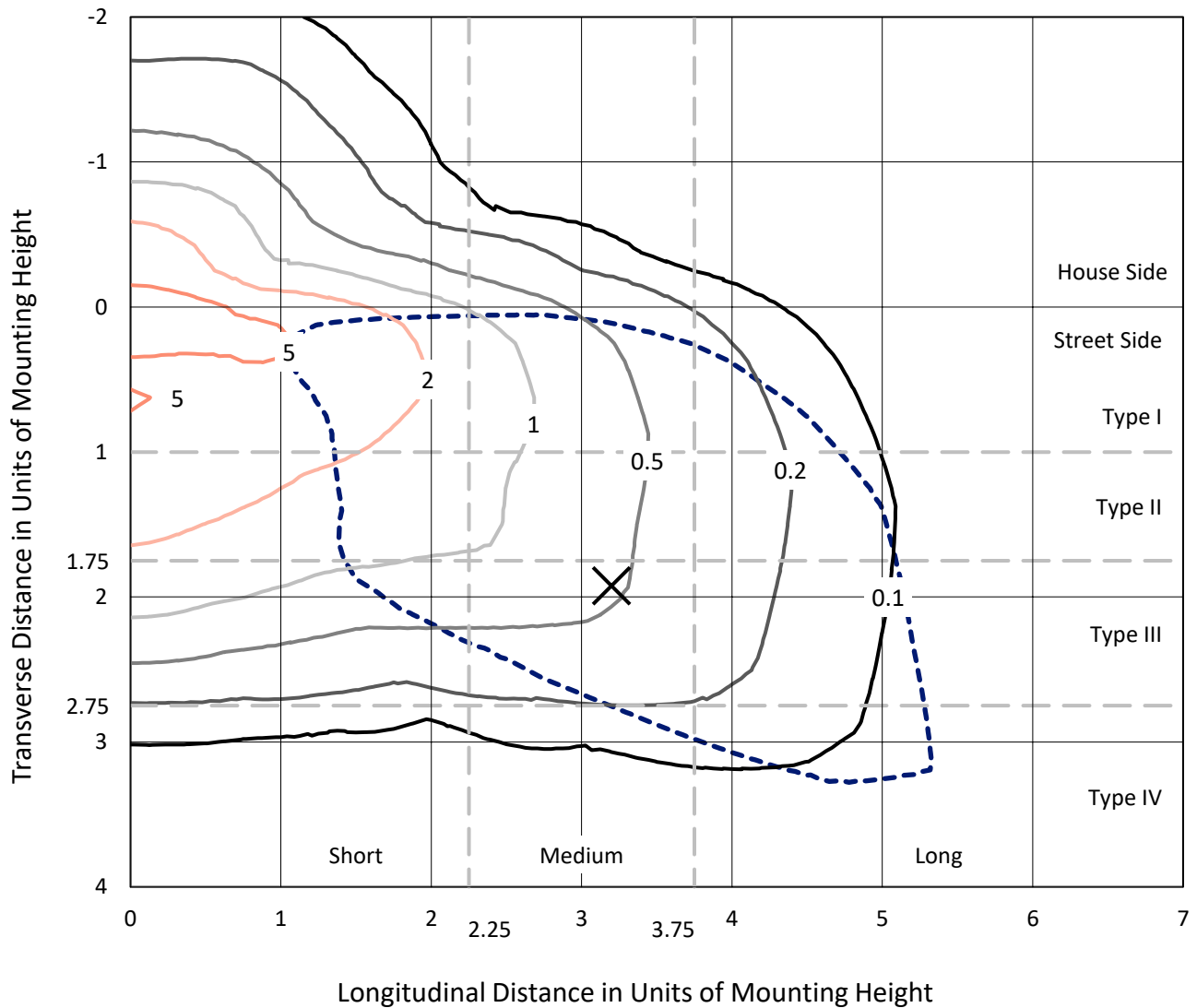
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

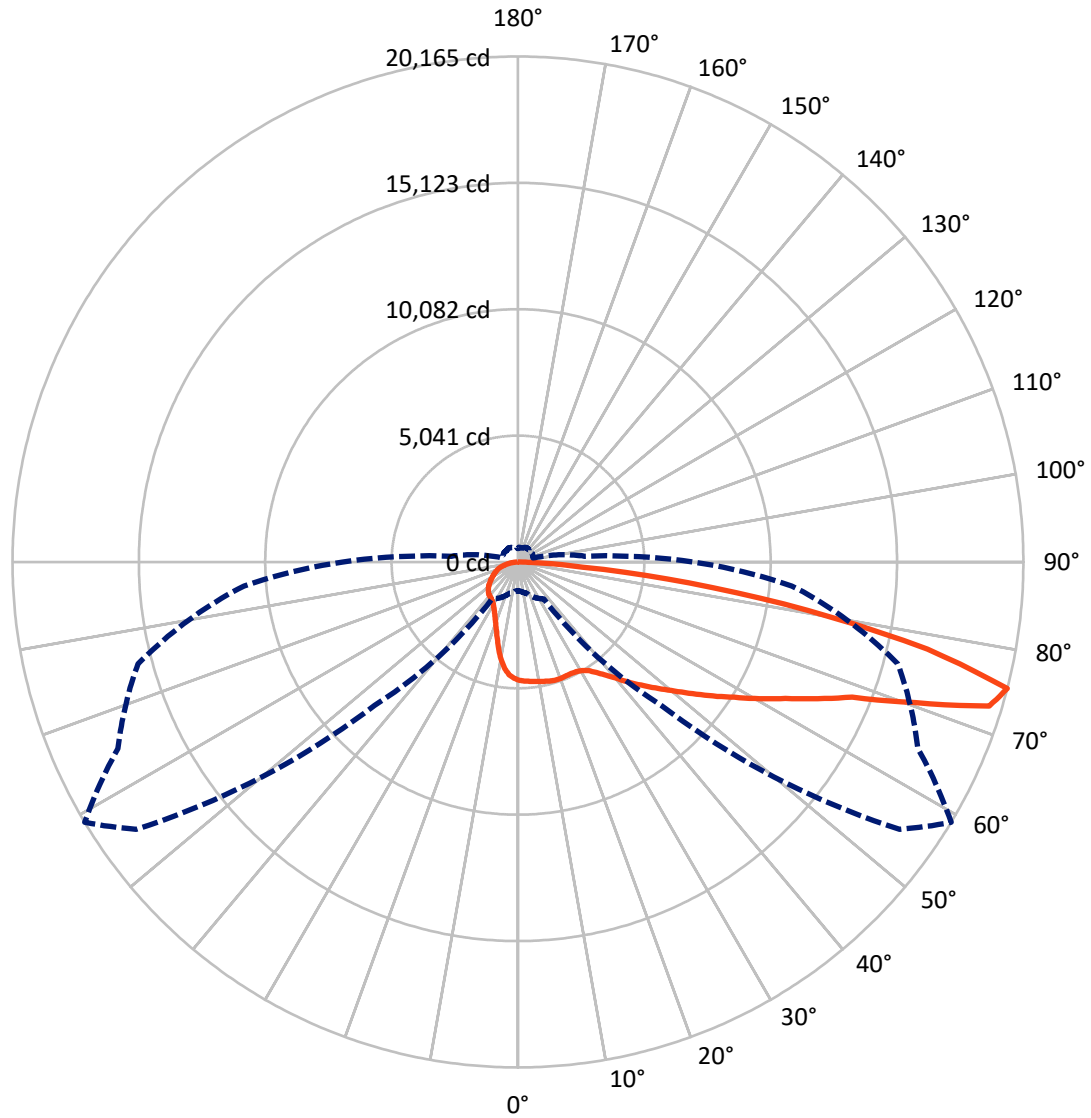
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	4824.0	0.0	4824.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20896.0	0.0	20896.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	25720.0	0.0	25720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.3	1.6
10°-20°	1082.0	4.2
20°-30°	1643.4	6.4
30°-40°	2442.9	9.5
40°-50°	3633.1	14.1
50°-60°	4931.5	19.2
60°-70°	6020.5	23.4
70°-80°	4724.8	18.4
80°-90°	818.5	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°	25720.0	100.0
0°-180°	25720.0	100.0

Coefficient of Utilization



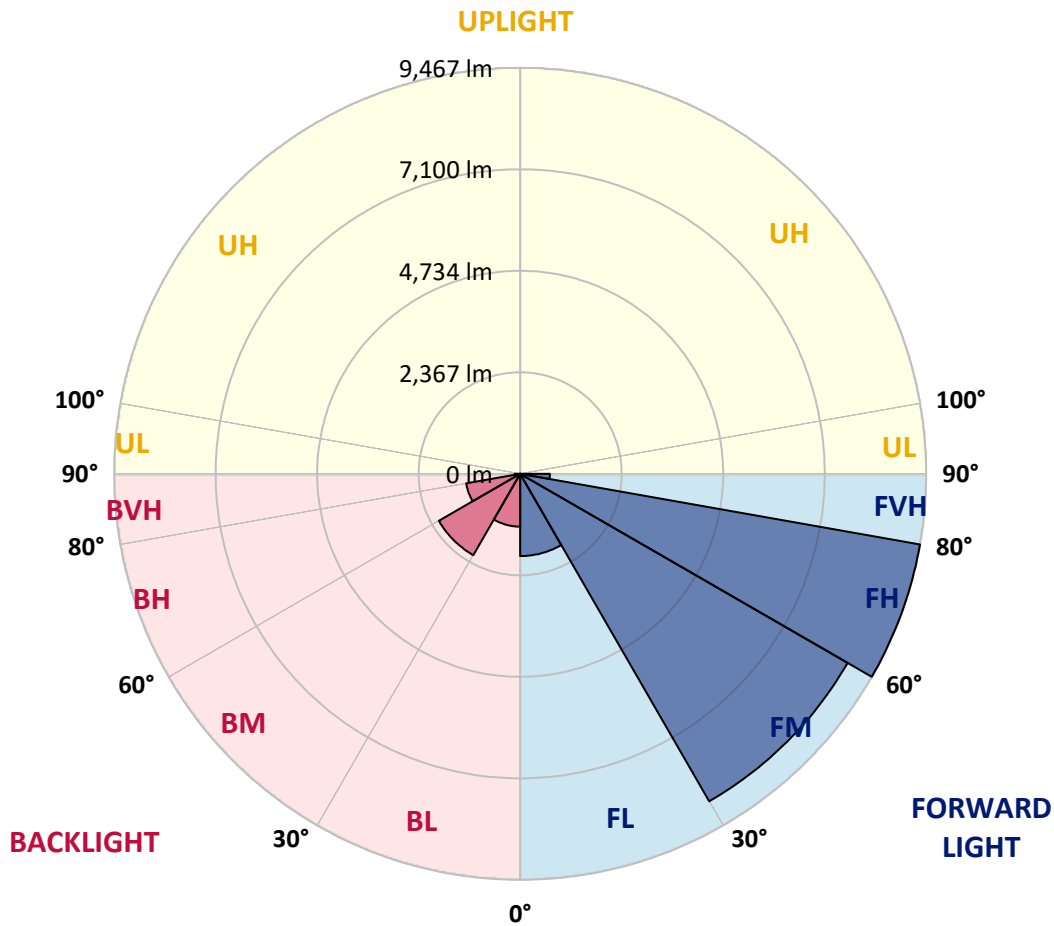
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1917.7	7.5			
FM (30°-60°)	8817.9	34.3			
FH (60°-80°)	9467.3	36.8			G4/12000
FVH (80°-90°)	693.2	2.7			G4/750
BL (0°-30°)	1231.0	4.8	B3/2500		
BM (30°-60°)	2189.6	8.5	B2/2500		
BH (60°-80°)	1278.1	5.0	B3/2500		G3/2500
BVH (80°-90°)	125.3	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°	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8
2.5°	4761.0	4744.4	4761.0	4754.1	4751.3	4745.8	4747.1	4756.8	4751.3	4758.2
5°	4729.2	4719.5	4736.1	4731.9	4749.9	4752.7	4770.7	4781.7	4788.6	4790.0
7.5°	4676.6	4666.9	4690.4	4709.8	4748.5	4759.6	4796.9	4814.9	4824.6	4841.2
10°	4484.3	4480.1	4538.2	4611.5	4702.9	4759.6	4816.3	4846.8	4862.0	4906.3
12.5°	4143.9	4149.4	4225.5	4366.6	4549.3	4731.9	4838.5	4882.7	4906.3	4961.6
15°	3818.7	3817.4	3900.4	4051.2	4307.2	4610.2	4849.5	4925.6	4965.7	5047.4
17.5°	3630.6	3625.0	3683.1	3798.0	4036.0	4423.4	4821.9	4949.1	5034.9	5137.3
20°	3596.0	3584.9	3615.4	3672.1	3840.9	4218.6	4749.9	4949.1	5090.3	5223.1
22.5°	3721.9	3703.9	3691.4	3684.5	3759.2	4049.8	4668.3	4932.5	5171.9	5346.2
25°	3975.1	3947.4	3883.8	3821.5	3799.4	3973.7	4596.3	4928.4	5293.7	5512.3
27.5°	4384.6	4350.0	4221.4	4071.9	3937.7	4012.4	4564.5	4953.3	5427.9	5688.0
30°	4892.4	4855.1	4693.2	4463.5	4222.8	4156.3	4604.6	5026.6	5599.4	5921.8
32.5°	5347.6	5306.1	5167.8	4933.9	4608.8	4405.4	4731.9	5166.4	5869.2	6247.0
35°	5751.6	5703.2	5578.7	5362.8	5082.0	4755.4	4961.6	5414.0	6252.5	6775.5
37.5°	6147.3	6090.6	5955.0	5726.7	5530.3	5221.7	5278.4	5732.3	6761.7	7417.5
40°	6590.1	6508.5	6343.8	6118.3	5927.3	5768.2	5694.9	6122.4	7279.1	8134.2
42.5°	7019.0	6941.5	6745.1	6552.7	6313.4	6267.7	6177.8	6579.0	7845.0	8921.5
45°	7481.1	7388.4	7150.5	6906.9	6756.1	6599.8	6645.4	7035.6	8399.8	9724.0
47.5°	7914.2	7810.4	7529.6	7258.4	7175.4	6879.3	7074.4	7537.9	8976.8	10537.5
50°	8148.0	8045.6	7811.8	7566.9	7501.9	7223.8	7539.2	8089.9	9581.4	11348.3
52.5°	8343.1	8232.4	7926.7	7791.1	7771.7	7598.7	8112.1	8720.8	10186.1	12065.0
55°	8550.7	8427.5	8037.3	7915.6	8004.1	8019.4	8791.4	9436.2	10825.3	12763.7
57.5°	8790.0	8633.7	8143.9	8020.7	8231.0	8511.9	9571.8	10177.8	11453.5	13411.3
60°	9015.5	8857.8	8348.7	8188.2	8475.9	9083.3	10466.9	11075.7	12164.6	13988.2
62.5°	9059.8	8929.8	8511.9	8510.5	8808.0	9750.2	11526.8	11982.0	12785.9	14558.3
65°	8293.3	8211.7	7964.0	8498.1	9284.0	10710.5	12707.0	13141.4	13575.9	15056.4
67.5°	6312.0	6323.1	6305.1	7335.9	8899.3	12089.9	14415.7	14382.5	14551.3	15615.3
70°	2886.2	2951.2	3374.6	5064.0	7129.7	12249.0	17241.1	16810.8	15775.8	16339.0
72.5°	1559.3	1609.1	1782.1	2453.1	4286.4	10890.3	19352.4	19658.2	17404.3	16826.0
75°	1144.2	1171.9	1292.3	1559.3	1800.1	8094.1	18595.6	20164.6	17607.7	15690.0
77.5°	856.4	868.9	967.1	1235.6	921.5	4267.0	14858.5	16700.1	15073.0	12891.0
80°	621.2	635.1	708.4	927.0	646.1	1560.7	10202.7	11721.9	10323.1	8217.2
82.5°	428.9	434.5	466.3	630.9	451.1	606.0	5789.0	6873.7	5762.7	2883.4
85°	258.7	265.7	279.5	368.0	256.0	287.8	2498.8	2584.6	1722.6	689.0
87.5°	106.5	113.5	124.5	155.0	101.0	80.2	412.3	517.5	322.4	202.0
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°
4720.8	0°	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8	4720.8
4734.7	2.5°	4727.8	4718.1	4691.8	4655.8	4622.6	4581.1	4563.1	4547.9	4534.1	4507.8
4772.0	5°	4756.8	4730.5	4660.0	4568.7	4464.9	4351.4	4240.7	4164.6	4099.6	4051.2
4814.9	7.5°	4801.1	4751.3	4622.6	4435.8	4197.8	3954.3	3734.3	3578.0	3460.4	3417.5
4875.8	10°	4846.8	4787.3	4563.1	4233.8	3822.9	3447.9	3156.0	2995.5	2901.4	2871.0
4947.8	12.5°	4900.7	4813.5	4470.4	3952.9	3403.7	2992.7	2738.1	2644.1	2595.6	2579.0
5036.3	15°	4979.6	4835.7	4330.7	3601.5	3003.8	2660.7	2496.0	2431.0	2406.1	2404.7
5127.6	17.5°	5039.1	4839.8	4113.4	3225.2	2696.6	2460.0	2324.5	2299.5	2316.1	2341.1
5217.6	20°	5105.5	4802.5	3828.4	2882.0	2480.8	2284.3	2227.6	2244.2	2284.3	2320.3
5336.6	22.5°	5152.5	4734.7	3483.9	2615.0	2294.0	2183.3	2180.6	2215.1	2237.3	2255.3
5476.3	25°	5194.0	4619.8	3118.6	2390.9	2140.4	2122.4	2152.9	2141.8	2126.6	2141.8
5616.0	27.5°	5224.5	4438.6	2792.1	2194.4	2032.5	2080.9	2062.9	2038.0	2036.7	2045.0
5780.7	30°	5214.8	4196.5	2523.7	2007.6	1956.4	2003.5	1960.6	1956.4	1952.3	1956.4
6028.4	32.5°	5214.8	3921.1	2317.5	1878.9	1908.0	1890.0	1885.8	1876.2	1859.6	1858.2
6364.6	35°	5243.9	3645.8	2140.4	1809.8	1867.9	1825.0	1827.7	1804.2	1769.6	1753.0
6810.1	37.5°	5303.3	3424.4	1964.7	1776.5	1797.3	1795.9	1784.8	1744.7	1683.8	1631.3
7366.3	40°	5447.2	3359.4	1844.3	1761.3	1764.1	1780.7	1751.6	1674.2	1535.8	1450.0
7930.8	42.5°	5672.8	3468.7	1818.1	1724.0	1742.0	1758.6	1701.8	1522.0	1423.7	1372.5
8523.0	45°	5959.2	3659.6	1874.8	1670.0	1689.4	1718.4	1549.6	1463.9	1419.6	1421.0
9109.6	47.5°	6321.7	3860.2	1979.9	1623.0	1613.3	1629.9	1448.6	1396.1	1335.2	1350.4
9672.8	50°	6740.9	4063.6	2079.6	1559.3	1528.9	1474.9	1383.6	1333.8	1256.3	1220.3
10216.5	52.5°	7194.7	4260.1	2119.7	1481.8	1437.6	1375.3	1339.3	1278.4	1184.4	1124.9
10729.8	55°	7625.0	4438.6	2075.4	1389.1	1346.2	1297.8	1292.3	1254.9	1153.9	1070.9
11186.4	57.5°	8031.8	4588.0	1964.7	1295.1	1253.5	1224.5	1261.8	1243.9	1116.6	1010.0
11618.1	60°	8376.3	4690.4	1804.2	1199.6	1170.5	1155.3	1212.0	1206.5	1064.0	945.0
12005.5	62.5°	8650.3	4730.5	1627.1	1108.3	1101.3	1073.7	1142.9	1142.9	997.6	881.4
12345.9	65°	8864.7	4691.8	1447.2	1018.3	1032.2	990.7	1058.5	1050.2	927.0	824.6
12737.4	67.5°	9054.3	4564.5	1248.0	929.8	961.6	909.0	969.9	950.5	849.5	767.9
13076.4	70°	9138.7	4268.4	1021.1	841.2	880.0	828.8	881.4	845.4	762.4	707.0
12704.2	72.5°	8460.7	3547.6	803.9	748.5	781.7	740.2	785.9	744.4	668.3	643.4
10970.6	75°	6999.6	2662.0	618.5	647.5	672.4	640.6	671.0	640.6	571.4	589.4
8103.8	77.5°	5083.4	1797.3	473.2	541.0	552.1	535.5	561.7	527.2	464.9	460.7
4038.7	80°	2527.8	1052.9	370.8	427.5	423.4	412.3	442.8	426.1	373.6	395.7
1090.3	82.5°	731.9	451.1	269.8	300.2	291.9	294.7	316.8	325.1	487.0	482.9
339.0	85°	229.7	177.1	161.9	167.4	159.1	163.3	186.8	370.8	343.1	200.6
105.2	87.5°	59.5	60.9	40.1	42.9	44.3	52.6	59.5	225.5	107.9	70.6
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>
4720.8
4495.3
4011.1
3342.8
2823.9
2583.2
2410.2
2350.7
2332.8
2265.0
2151.5
2058.8
1971.6
1876.2
1769.6
1649.3
1461.1
1372.5
1427.9
1389.1
1230.0
1123.5
1070.9
1004.5
940.8
877.2
819.1
762.4
696.0
622.6
538.2
440.0
391.6
493.9
217.2
74.7
0.0

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