

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: P951516

Luminaire Tested: **GALN-SB5C-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951516
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-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 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: 22505 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

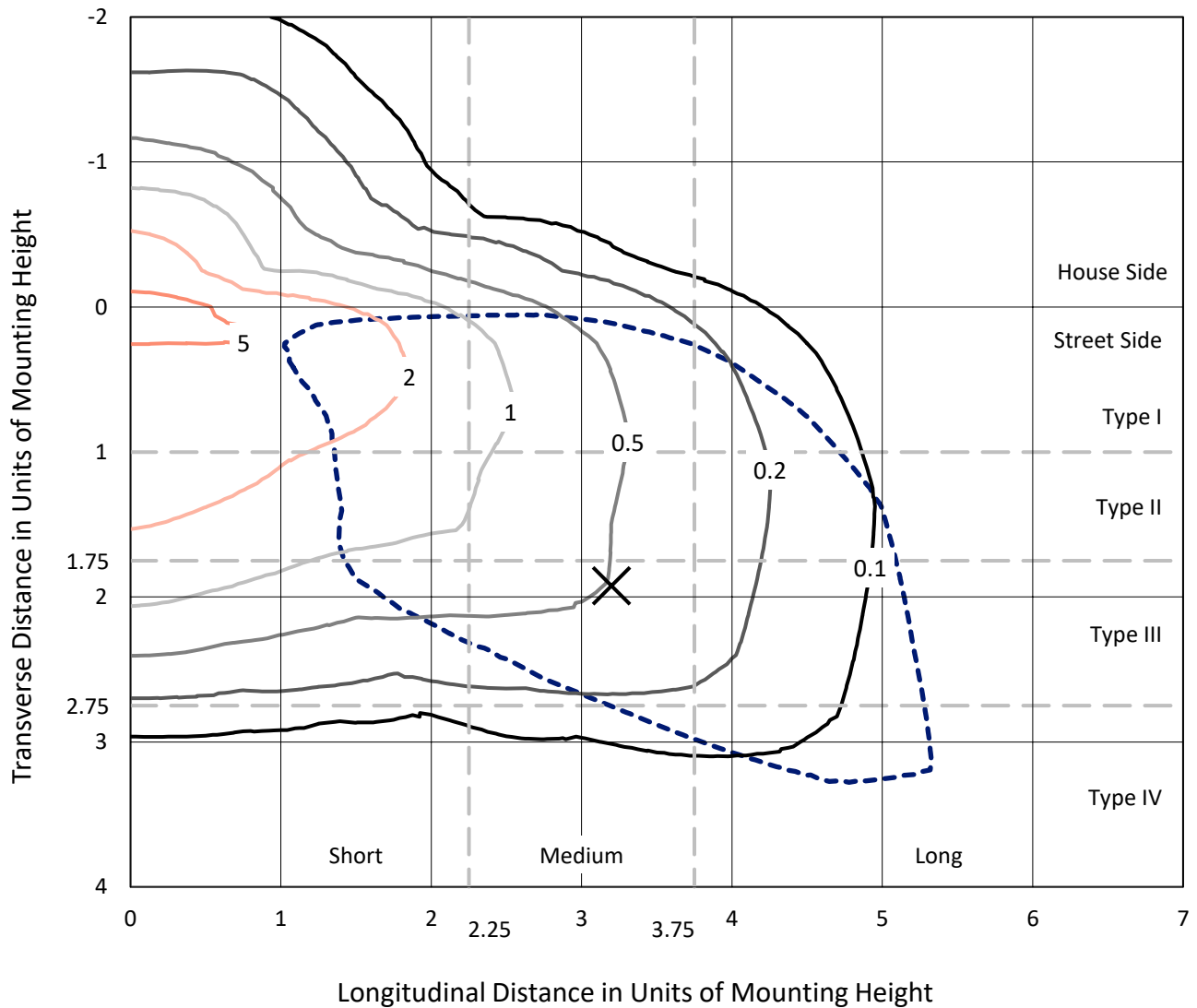
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

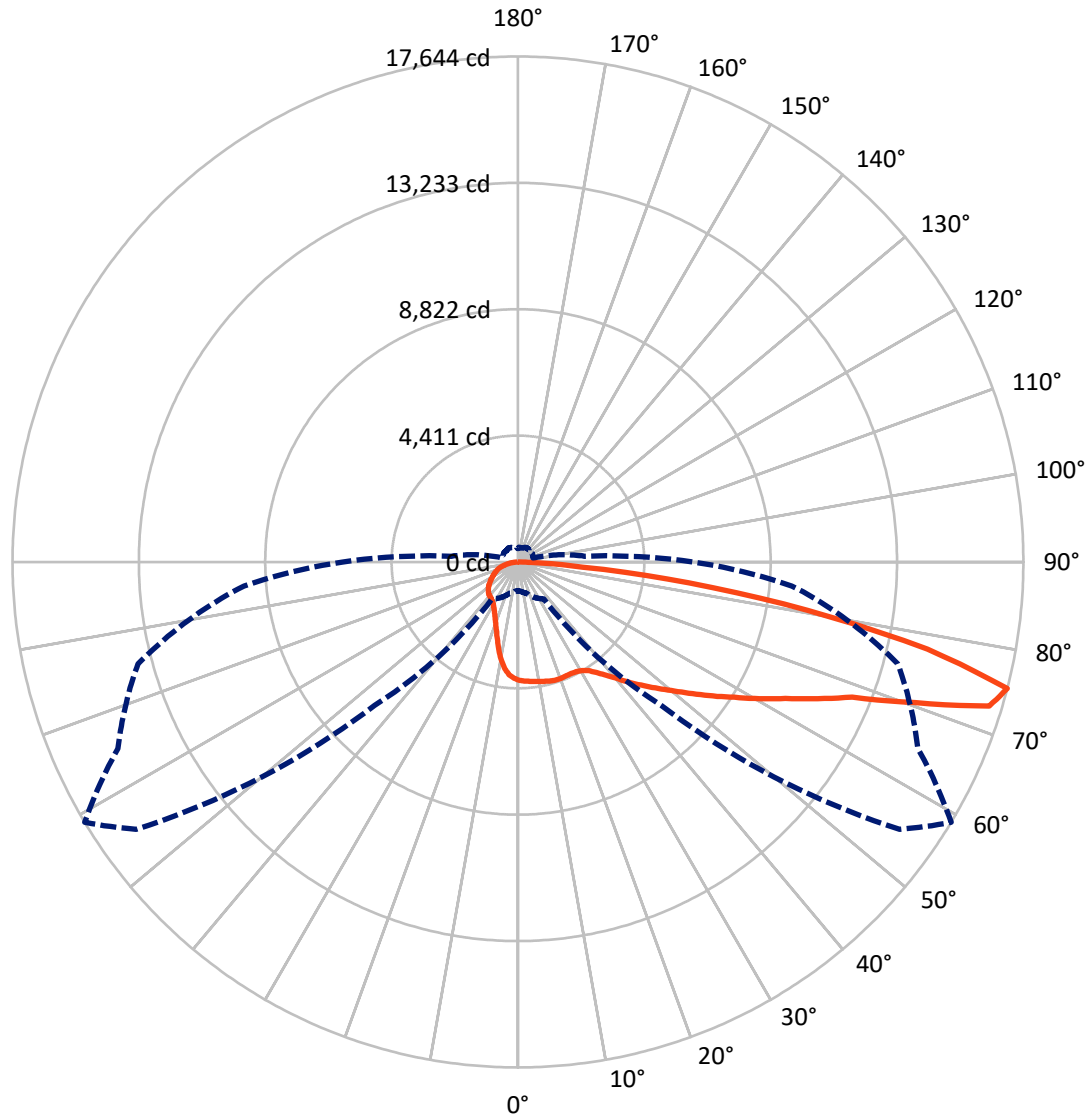
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	4221.0	0.0	4221.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18284.0	0.0	18284.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	22505.0	0.0	22505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.4	1.6
10°-20°	946.7	4.2
20°-30°	1438.0	6.4
30°-40°	2137.6	9.5
40°-50°	3178.9	14.1
50°-60°	4315.0	19.2
60°-70°	5267.9	23.4
70°-80°	4134.2	18.4
80°-90°	716.1	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°	22505.0	100.0
0°-180°	22505.0	100.0

Coefficient of Utilization



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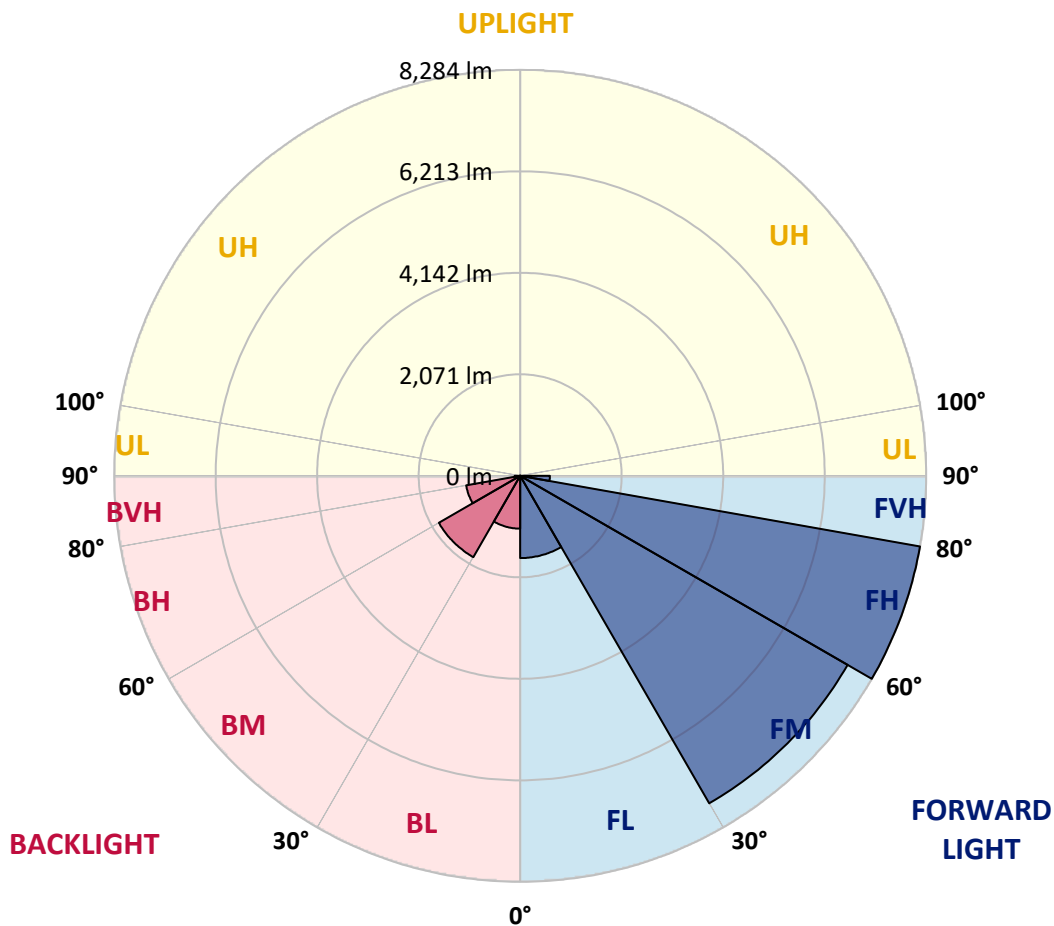
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.0	7.5			
FM (30°-60°)	7715.6	34.3			
FH (60°-80°)	8283.9	36.8			G4/12000
FVH (80°-90°)	606.5	2.7			G4/750
BL (0°-30°)	1077.1	4.8	B3/2500		
BM (30°-60°)	1915.9	8.5	B2/2500		
BH (60°-80°)	1118.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	109.6	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°	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7
2.5°	4165.9	4151.3	4165.9	4159.8	4157.4	4152.5	4153.7	4162.2	4157.4	4163.4
5°	4138.0	4129.5	4144.1	4140.4	4156.2	4158.6	4174.3	4184.0	4190.1	4191.3
7.5°	4092.0	4083.5	4104.1	4121.1	4155.0	4164.6	4197.3	4213.1	4221.5	4236.1
10°	3923.7	3920.1	3970.9	4035.1	4115.0	4164.6	4214.3	4240.9	4254.2	4293.0
12.5°	3625.9	3630.7	3697.3	3820.8	3980.6	4140.4	4233.6	4272.4	4293.0	4341.4
15°	3341.4	3340.2	3412.8	3544.8	3768.8	4033.9	4243.3	4309.9	4345.0	4416.5
17.5°	3176.7	3171.9	3222.8	3323.2	3531.5	3870.5	4219.1	4330.5	4405.6	4495.1
20°	3146.5	3136.8	3163.4	3213.1	3360.8	3691.3	4156.2	4330.5	4454.0	4570.2
22.5°	3256.7	3240.9	3230.0	3224.0	3289.3	3543.6	4084.7	4316.0	4525.4	4678.0
25°	3478.2	3454.0	3398.3	3343.8	3324.4	3477.0	4021.8	4312.3	4632.0	4823.2
27.5°	3836.6	3806.3	3693.7	3562.9	3445.5	3510.9	3993.9	4334.1	4749.4	4977.0
30°	4280.9	4248.2	4106.5	3905.6	3694.9	3636.8	4029.0	4398.3	4899.5	5181.6
32.5°	4679.2	4642.8	4521.8	4317.2	4032.7	3854.7	4140.4	4520.6	5135.6	5466.1
35°	5032.7	4990.3	4881.3	4692.5	4446.7	4161.0	4341.4	4737.3	5470.9	5928.6
37.5°	5378.9	5329.3	5210.6	5010.9	4839.0	4569.0	4618.6	5015.7	5916.5	6490.3
40°	5766.3	5694.9	5550.8	5353.5	5186.4	5047.2	4983.0	5357.1	6369.2	7117.4
42.5°	6141.6	6073.8	5901.9	5733.6	5524.2	5484.3	5405.6	5756.6	6864.4	7806.3
45°	6546.0	6464.9	6256.6	6043.6	5911.6	5774.8	5814.8	6156.2	7349.9	8508.5
47.5°	6924.9	6834.1	6588.4	6351.1	6278.4	6019.4	6190.1	6595.6	7854.7	9220.3
50°	7129.5	7039.9	6835.3	6621.1	6564.2	6320.8	6596.8	7078.7	8383.8	9929.8
52.5°	7300.2	7203.4	6935.8	6817.2	6800.2	6648.9	7098.0	7630.7	8912.8	10556.9
55°	7481.8	7374.1	7032.7	6926.1	7003.6	7016.9	7692.5	8256.6	9472.1	11168.3
57.5°	7691.3	7554.5	7125.9	7018.1	7202.2	7447.9	8375.3	8905.6	10021.8	11734.8
60°	7888.6	7750.6	7305.1	7164.6	7416.5	7947.9	9158.6	9691.3	10644.0	12239.7
62.5°	7927.3	7813.5	7447.9	7446.7	7707.0	8531.5	10085.9	10484.2	11187.6	12738.5
65°	7256.6	7185.2	6968.5	7435.8	8123.5	9371.7	11118.6	11498.8	11878.9	13174.3
67.5°	5523.0	5532.7	5516.9	6418.9	7786.9	10578.7	12613.8	12584.7	12732.4	13663.4
70°	2525.4	2582.3	2952.8	4431.0	6238.5	10717.9	15085.9	14709.4	13803.8	14296.6
72.5°	1364.4	1408.0	1559.3	2146.5	3750.6	9529.0	16933.4	17200.9	15228.8	14722.7
75°	1001.2	1025.4	1130.7	1364.4	1575.1	7082.3	16271.2	17644.0	15406.7	13728.8
77.5°	749.4	760.3	846.2	1081.1	806.3	3733.6	13001.2	14612.6	13188.8	11279.6
80°	543.6	555.7	619.9	811.1	565.4	1365.6	8927.3	10256.6	9032.7	7190.1
82.5°	375.3	380.1	408.0	552.1	394.7	530.3	5065.4	6014.5	5042.4	2523.0
85°	226.4	232.4	244.6	322.0	224.0	251.8	2186.4	2261.5	1507.3	602.9
87.5°	93.2	99.3	109.0	135.6	88.4	70.2	360.8	452.8	282.1	176.8
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°
4130.7	0°	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7	4130.7
4142.8	2.5°	4136.8	4128.3	4105.3	4073.8	4044.8	4008.5	3992.7	3979.4	3967.3	3944.3
4175.5	5°	4162.2	4139.2	4077.5	3997.6	3906.8	3807.5	3710.6	3644.1	3587.2	3544.8
4213.1	7.5°	4201.0	4157.4	4044.8	3881.3	3673.1	3460.0	3267.5	3130.7	3027.8	2990.3
4266.3	10°	4240.9	4188.9	3992.7	3704.6	3345.0	3016.9	2761.5	2621.1	2538.7	2512.1
4329.3	12.5°	4288.1	4211.9	3911.6	3458.8	2978.2	2618.6	2395.9	2313.6	2271.2	2256.7
4406.8	15°	4357.1	4231.2	3789.3	3151.3	2628.3	2328.1	2184.0	2127.1	2105.3	2104.1
4486.7	17.5°	4409.2	4234.9	3599.3	2822.0	2359.6	2152.5	2033.9	2012.1	2026.6	2048.4
4565.4	20°	4467.3	4202.2	3349.9	2521.8	2170.7	1998.8	1949.1	1963.7	1998.8	2030.3
4669.5	22.5°	4508.5	4142.8	3048.4	2288.1	2007.3	1910.4	1908.0	1938.3	1957.6	1973.4
4791.8	25°	4544.8	4042.4	2728.8	2092.0	1872.9	1857.1	1883.8	1874.1	1860.8	1874.1
4914.0	27.5°	4571.4	3883.8	2443.1	1920.1	1778.4	1820.8	1805.1	1783.3	1782.1	1789.3
5058.1	30°	4562.9	3671.9	2208.2	1756.7	1711.9	1753.0	1715.5	1711.9	1708.2	1711.9
5274.8	32.5°	4562.9	3431.0	2027.8	1644.1	1669.5	1653.7	1650.1	1641.6	1627.1	1625.9
5569.0	35°	4588.4	3190.1	1872.9	1583.5	1634.4	1596.8	1599.3	1578.7	1548.4	1533.9
5958.8	37.5°	4640.4	2996.4	1719.1	1554.5	1572.6	1571.4	1561.7	1526.6	1473.4	1427.4
6445.5	40°	4766.3	2939.5	1613.8	1541.2	1543.6	1558.1	1532.7	1464.9	1343.8	1268.8
6939.5	42.5°	4963.7	3035.1	1590.8	1508.5	1524.2	1538.7	1489.1	1331.7	1245.8	1201.0
7457.6	45°	5214.3	3202.2	1640.4	1461.3	1478.2	1503.6	1355.9	1280.9	1242.1	1243.3
7970.9	47.5°	5531.5	3377.7	1732.4	1420.1	1411.6	1426.1	1267.6	1221.5	1168.3	1181.6
8463.7	50°	5898.3	3555.7	1819.6	1364.4	1337.8	1290.6	1210.7	1167.1	1099.3	1067.8
8939.4	52.5°	6295.4	3727.6	1854.7	1296.6	1257.9	1203.4	1171.9	1118.6	1036.3	984.3
9388.6	55°	6671.9	3883.8	1816.0	1215.5	1178.0	1135.6	1130.7	1098.1	1009.7	937.0
9788.1	57.5°	7027.8	4014.5	1719.1	1133.2	1096.9	1071.4	1104.1	1088.4	977.0	883.8
10165.8	60°	7329.3	4104.1	1578.7	1049.6	1024.2	1010.9	1060.5	1055.7	931.0	826.9
10504.8	62.5°	7569.0	4139.2	1423.7	969.7	963.7	939.5	1000.0	1000.0	872.9	771.2
10802.6	65°	7756.6	4105.3	1266.3	891.0	903.1	866.8	926.1	918.9	811.1	721.5
11145.3	67.5°	7922.5	3993.9	1092.0	813.6	841.4	795.4	848.7	831.7	743.3	671.9
11441.9	70°	7996.4	3734.9	893.5	736.1	770.0	725.2	771.2	739.7	667.1	618.6
11116.2	72.5°	7403.1	3104.1	703.4	655.0	684.0	647.7	687.6	651.3	584.7	563.0
9599.3	75°	6124.7	2329.3	541.2	566.6	588.4	560.5	587.2	560.5	500.0	515.7
7090.8	77.5°	4447.9	1572.6	414.0	473.4	483.0	468.5	491.5	461.3	406.8	403.1
3533.9	80°	2211.9	921.3	324.5	374.1	370.5	360.8	387.4	372.9	326.9	346.2
954.0	82.5°	640.4	394.7	236.1	262.7	255.4	257.9	277.2	284.5	426.1	422.5
296.6	85°	201.0	155.0	141.6	146.5	139.2	142.9	163.4	324.5	300.2	175.5
92.0	87.5°	52.1	53.3	35.1	37.5	38.7	46.0	52.1	197.3	94.4	61.7
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>
4130.7
3933.4
3509.7
2924.9
2470.9
2260.3
2109.0
2056.9
2041.2
1981.8
1882.6
1801.4
1725.2
1641.6
1548.4
1443.1
1278.4
1201.0
1249.4
1215.5
1076.3
983.0
937.0
878.9
823.2
767.6
716.7
667.1
609.0
544.8
470.9
385.0
342.6
432.2
190.1
65.4
0.0

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