

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: P950443

Luminaire Tested: **GALN-SB4D-927-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-927-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24674 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

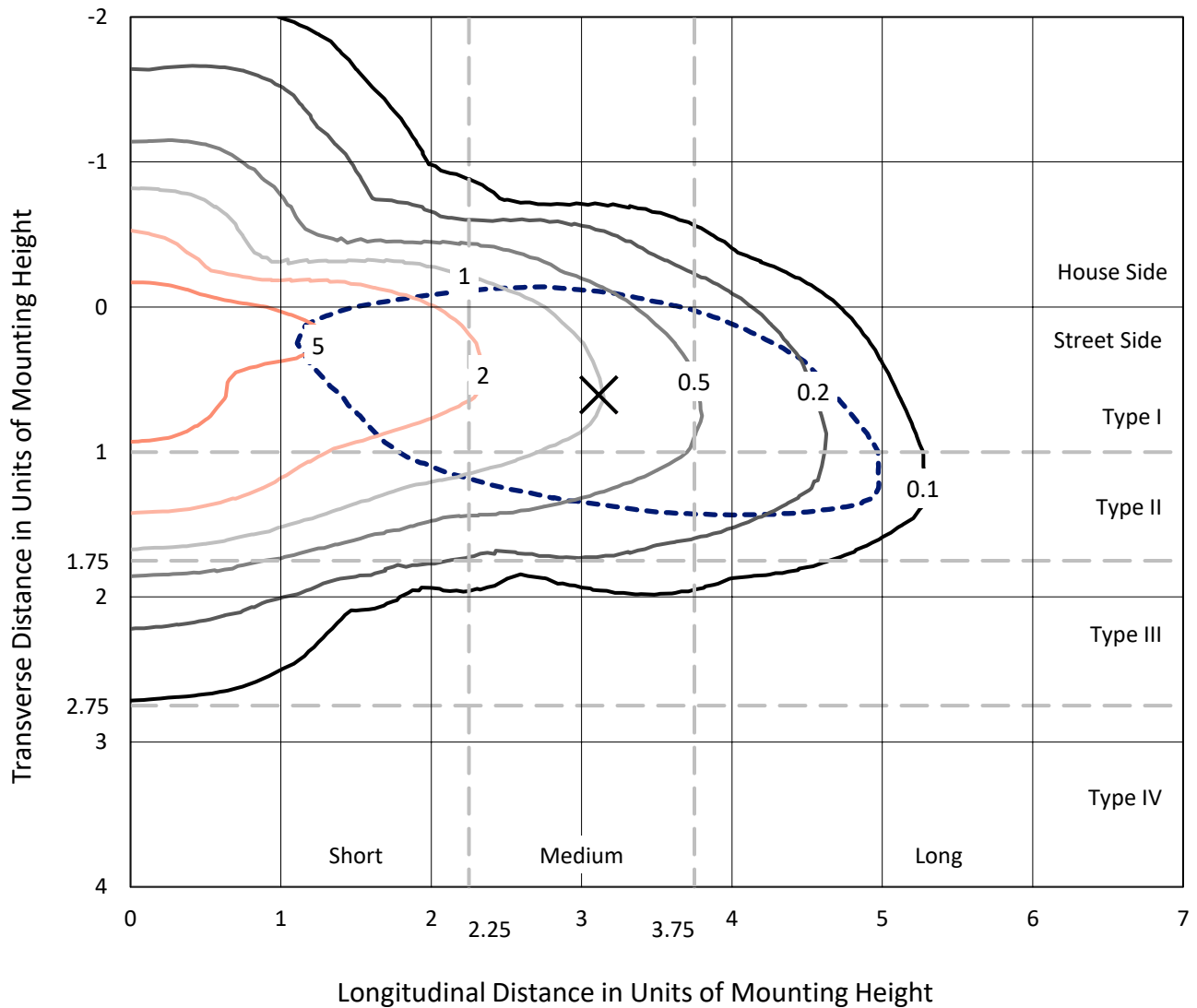
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

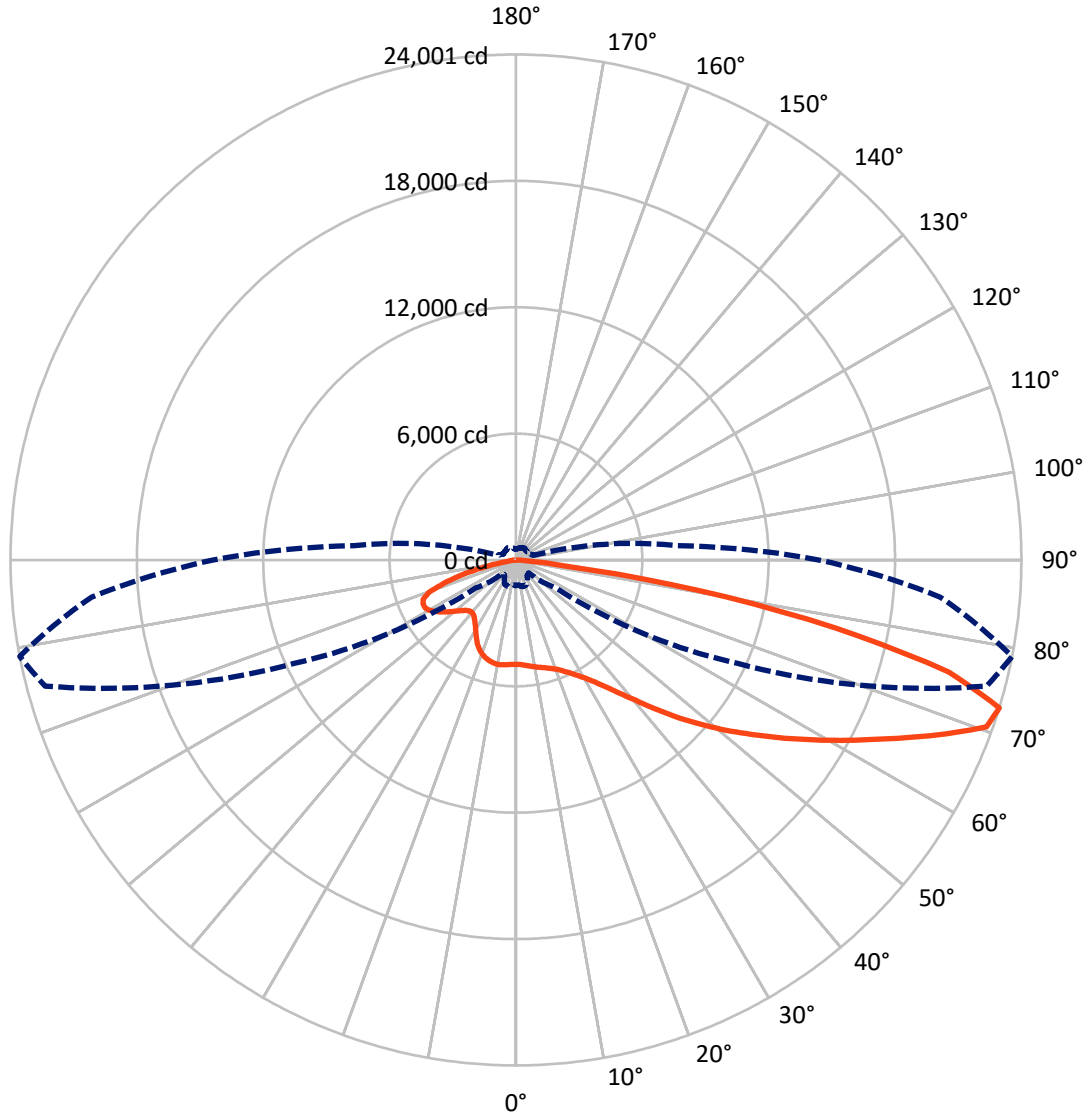
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5429.6	0.0	5429.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19244.4	0.0	19244.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	24674.0	0.0	24674.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.6	1.8
10°-20°	1175.5	4.8
20°-30°	1896.7	7.7
30°-40°	2846.7	11.5
40°-50°	4038.2	16.4
50°-60°	5099.7	20.7
60°-70°	5179.5	21.0
70°-80°	3530.1	14.3
80°-90°	458.0	1.9
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°	24674.0	100.0
0°-180°	24674.0	100.0



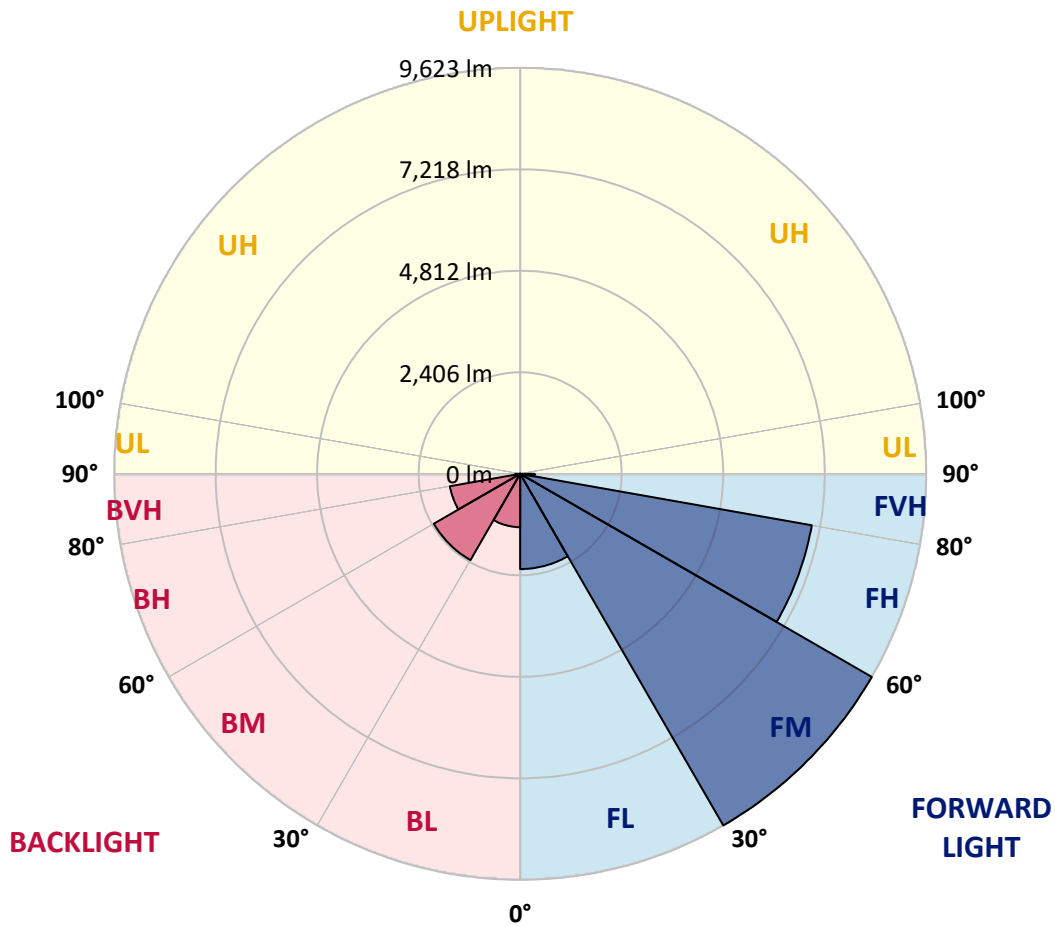
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.1	9.1			
FM (30°-60°)	9623.4	39.0			
FH (60°-80°)	7018.9	28.4			G3/7500
FVH (80°-90°)	345.0	1.4			G3/500
BL (0°-30°)	1264.7	5.1	B3/2500		
BM (30°-60°)	2361.3	9.6	B2/2500		
BH (60°-80°)	1690.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	113.0	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1
2.5°	4955.7	4932.2	4946.5	4941.3	4947.9	4955.7	4958.3	4962.2	4975.3	4974.0
5°	4945.2	4921.7	4941.3	4934.8	4951.8	4970.0	4985.7	5000.1	5020.9	5030.1
7.5°	4923.1	4907.4	4927.0	4946.5	4977.9	5005.3	5027.5	5060.1	5090.1	5095.3
10°	4793.8	4782.1	4827.8	4878.7	4964.8	5039.2	5087.5	5125.4	5158.0	5163.2
12.5°	4659.4	4645.1	4696.0	4765.1	4904.8	5039.2	5141.0	5190.6	5219.3	5236.3
15°	4637.2	4625.5	4654.2	4714.2	4830.4	5004.0	5177.6	5268.9	5293.7	5313.3
17.5°	4744.2	4722.1	4733.8	4754.7	4822.6	4971.3	5206.3	5357.7	5395.5	5416.4
20°	4992.2	4960.9	4942.6	4900.9	4889.1	4976.6	5203.7	5464.7	5514.3	5540.4
22.5°	5322.4	5301.5	5262.4	5156.7	5041.8	5040.5	5253.3	5601.7	5694.4	5719.2
25°	5721.8	5690.5	5640.9	5497.3	5276.7	5167.1	5336.8	5776.6	5931.9	5938.5
27.5°	6181.2	6134.2	6066.4	5877.1	5579.5	5365.5	5464.7	5977.6	6204.7	6202.1
30°	6665.4	6618.5	6546.7	6317.0	5942.4	5633.1	5642.2	6194.3	6528.4	6514.0
32.5°	7019.1	6983.9	6969.5	6792.0	6360.0	5948.9	5845.8	6434.4	6927.8	6914.7
35°	7290.6	7244.9	7261.9	7171.8	6815.5	6302.6	6095.1	6720.3	7413.3	7412.0
37.5°	7559.5	7519.0	7533.4	7473.3	7237.1	6751.6	6399.2	7070.0	8015.0	8043.7
40°	7804.8	7761.8	7819.2	7763.1	7564.7	7229.3	6745.1	7465.5	8711.9	8766.7
42.5°	7952.3	7918.4	8013.7	8015.0	7849.2	7632.6	7124.9	7901.4	9518.5	9641.2
45°	8003.2	7991.5	8135.0	8165.1	8101.1	7866.2	7466.8	8376.5	10387.7	10607.0
47.5°	7948.4	7926.2	8124.6	8235.5	8286.4	7975.8	7750.0	8890.7	11275.3	11596.3
50°	7671.7	7628.6	7923.6	8157.2	8338.6	8047.6	8035.9	9484.6	12284.1	12635.2
52.5°	7174.4	7141.8	7477.2	7883.1	8223.8	8082.8	8356.9	10133.2	13242.1	13696.3
55°	6538.8	6495.8	6865.1	7395.0	7938.0	8071.1	8678.0	10858.9	14372.4	14833.1
57.5°	5531.3	5445.1	5912.4	6538.8	7472.0	8056.7	9012.1	11580.7	15520.9	16073.0
60°	4061.6	3933.7	4506.7	5249.3	6561.0	7917.1	9425.8	12389.9	16899.2	17396.4
62.5°	2364.9	2290.6	2665.1	3358.2	4945.2	7094.8	9658.2	13330.9	18253.9	18776.0
65°	1836.4	1815.5	1848.1	1901.6	2752.6	5312.0	8941.6	14248.4	19976.7	20342.2
67.5°	1679.7	1664.1	1678.4	1577.9	1396.5	2958.8	7074.0	14480.7	21822.2	22044.1
70°	1493.1	1474.8	1521.8	1435.7	1098.9	1345.6	4570.7	13637.6	23290.5	23706.9
72.5°	1216.4	1195.5	1305.2	1266.0	925.4	864.0	2295.8	11634.2	23136.5	24000.5
75°	934.5	922.7	1053.3	1085.9	754.4	680.0	1101.6	8648.0	20360.4	21231.0
77.5°	725.7	716.5	783.1	901.9	608.2	527.3	677.4	5485.6	15343.4	15496.1
80°	544.3	518.1	579.5	698.3	473.8	385.0	459.4	3198.9	9698.6	8791.5
82.5°	340.6	327.6	378.5	465.9	334.1	264.9	298.9	1767.2	3886.8	2289.2
85°	194.5	189.2	206.2	266.3	181.4	152.7	171.0	780.5	710.0	488.1
87.5°	78.3	75.7	94.0	118.8	66.6	56.1	60.0	187.9	156.6	144.9
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°
4953.1	0°	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1	4953.1
4972.6	2.5°	4967.4	4967.4	4949.2	4920.4	4887.8	4866.9	4833.0	4823.9	4788.6	4778.2
5017.0	5°	5027.5	5017.0	4960.9	4880.0	4769.0	4667.2	4555.0	4484.5	4385.3	4350.1
5104.5	7.5°	5103.2	5074.5	4977.9	4800.4	4568.0	4339.6	4102.1	3922.0	3749.7	3688.4
5176.3	10°	5172.3	5131.9	4967.4	4656.8	4254.8	3859.3	3480.9	3215.9	3014.9	2932.7
5255.9	12.5°	5241.5	5167.1	4898.3	4418.0	3809.8	3273.3	2870.0	2663.8	2539.8	2440.6
5321.1	15°	5306.8	5202.4	4791.2	4098.2	3321.6	2777.4	2479.8	2315.3	2216.2	2150.9
5416.4	17.5°	5382.5	5232.4	4630.7	3692.3	2857.0	2434.1	2191.4	2092.2	2072.6	2064.8
5546.9	20°	5488.2	5259.8	4419.3	3238.1	2515.0	2160.0	2034.7	2025.6	2024.3	2020.4
5703.5	22.5°	5601.7	5292.4	4140.0	2825.7	2224.0	1989.1	1966.9	1948.6	1936.9	1935.5
5892.8	25°	5736.2	5302.9	3790.2	2487.6	1976.0	1908.1	1882.0	1854.6	1846.8	1846.8
6108.1	27.5°	5866.7	5267.6	3383.0	2194.0	1836.4	1833.7	1799.8	1790.7	1789.4	1793.3
6353.5	30°	5997.2	5201.1	2978.4	1922.5	1755.4	1755.4	1743.7	1750.2	1755.4	1768.5
6690.2	32.5°	6173.4	5130.6	2640.3	1721.5	1685.0	1671.9	1683.7	1696.7	1701.9	1718.9
7132.7	35°	6431.8	5081.0	2371.5	1611.9	1611.9	1594.9	1601.4	1598.8	1587.1	1579.2
7667.8	37.5°	6773.8	5078.4	2149.6	1561.0	1550.5	1547.9	1549.2	1532.3	1486.6	1431.8
8315.2	40°	7184.9	5148.8	1978.6	1525.7	1517.9	1533.6	1525.7	1480.0	1354.8	1259.5
9111.3	42.5°	7737.0	5349.8	1869.0	1482.7	1506.2	1525.7	1494.4	1336.5	1251.6	1187.7
10018.4	45°	8386.9	5676.1	1812.9	1437.0	1484.0	1507.5	1356.1	1286.9	1219.0	1142.0
11007.7	47.5°	9123.0	6087.3	1799.8	1393.9	1434.4	1448.7	1297.3	1266.0	1189.0	1105.5
12002.2	50°	9924.4	6574.1	1835.1	1343.0	1362.6	1313.0	1277.7	1249.0	1169.4	1087.2
13021.6	52.5°	10753.2	7110.5	1905.5	1273.8	1290.8	1236.0	1269.9	1245.1	1157.7	1046.7
14074.8	55°	11567.6	7650.8	1973.4	1192.9	1217.7	1166.8	1247.7	1229.5	1104.2	978.9
15198.6	57.5°	12395.1	8188.6	2040.0	1121.1	1147.2	1100.2	1212.5	1187.7	1044.1	916.2
16425.4	60°	13255.2	8710.6	2071.3	1052.0	1070.2	1038.9	1159.0	1115.9	976.3	852.3
17631.4	62.5°	14060.5	9145.2	2020.4	982.8	994.5	981.5	1088.5	1031.1	908.4	780.5
18888.2	65°	14868.3	9403.7	1863.8	914.9	917.5	911.0	989.3	939.7	828.8	717.8
19988.5	67.5°	15600.5	9548.5	1614.5	841.8	835.3	832.7	896.6	840.5	751.8	655.2
20825.1	70°	15755.9	9180.5	1233.4	755.7	755.7	749.2	794.8	737.4	666.9	588.6
20226.0	72.5°	14390.7	7722.6	875.8	657.8	668.2	655.2	693.0	644.7	580.8	528.6
17431.7	75°	11604.2	5663.1	636.9	557.3	575.6	553.4	588.6	554.7	499.9	498.6
12012.7	77.5°	7973.2	3501.7	462.0	459.4	472.5	443.8	484.2	465.9	416.3	394.2
5228.5	80°	3402.5	1396.5	336.7	355.0	355.0	328.9	375.9	381.1	338.0	327.6
1008.9	82.5°	677.4	396.8	236.2	244.1	229.7	221.9	266.3	295.0	407.2	452.9
304.1	85°	203.6	146.2	142.3	133.1	117.5	118.8	156.6	296.3	365.4	208.8
100.5	87.5°	56.1	36.5	37.8	30.0	24.8	32.6	53.5	224.5	122.7	52.2
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>
4953.1
4795.1
4376.2
3696.2
2951.0
2473.3
2162.6
2070.0
2033.4
1949.9
1854.6
1803.7
1777.6
1733.2
1597.5
1433.1
1256.9
1185.1
1136.8
1098.9
1078.1
1038.9
972.3
913.6
848.4
779.2
710.0
647.4
586.0
512.9
449.0
369.4
327.6
454.2
180.1
44.4
0.0

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