

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: P949023

Luminaire Tested: **GALN-SB3D-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18929 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

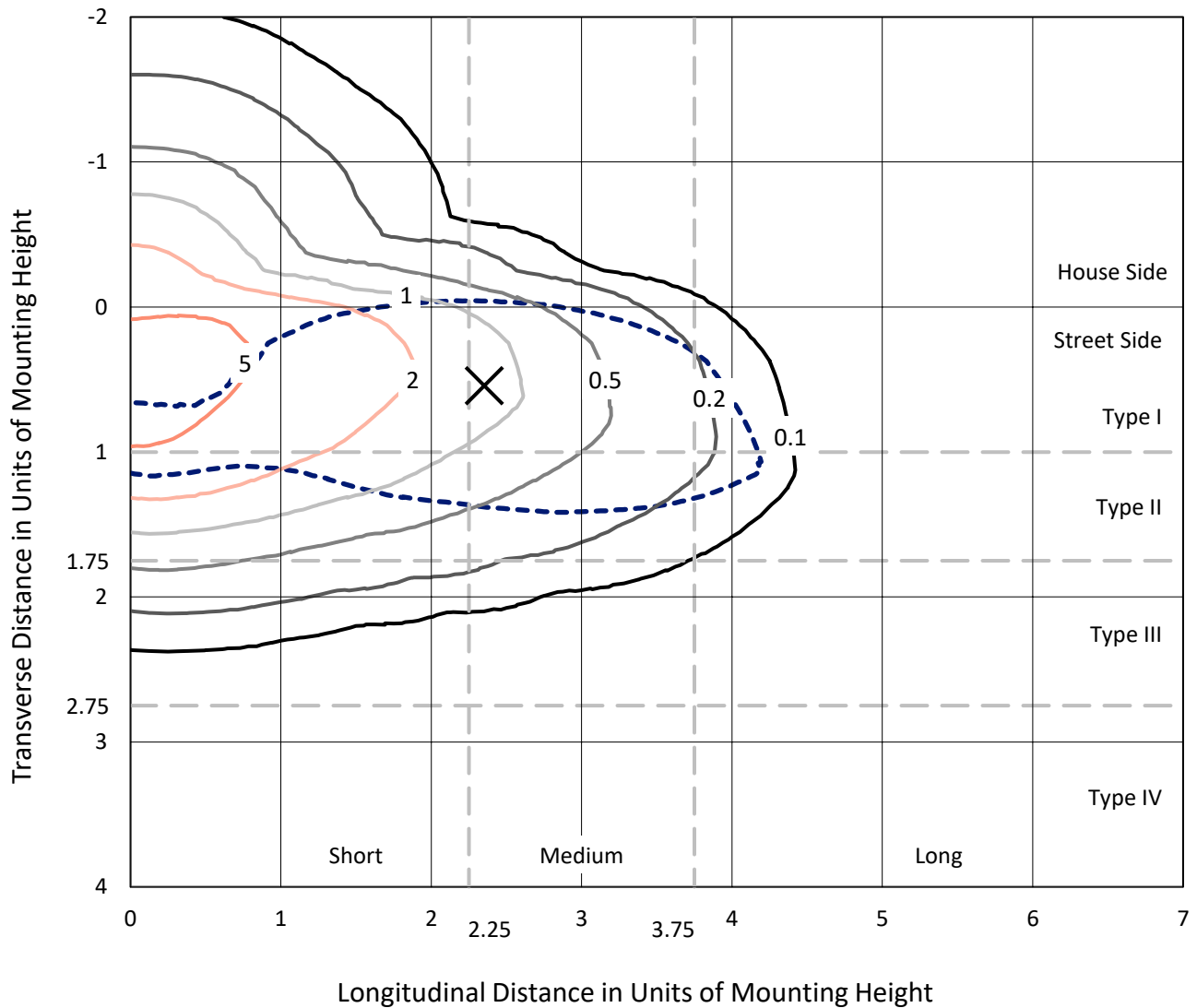
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

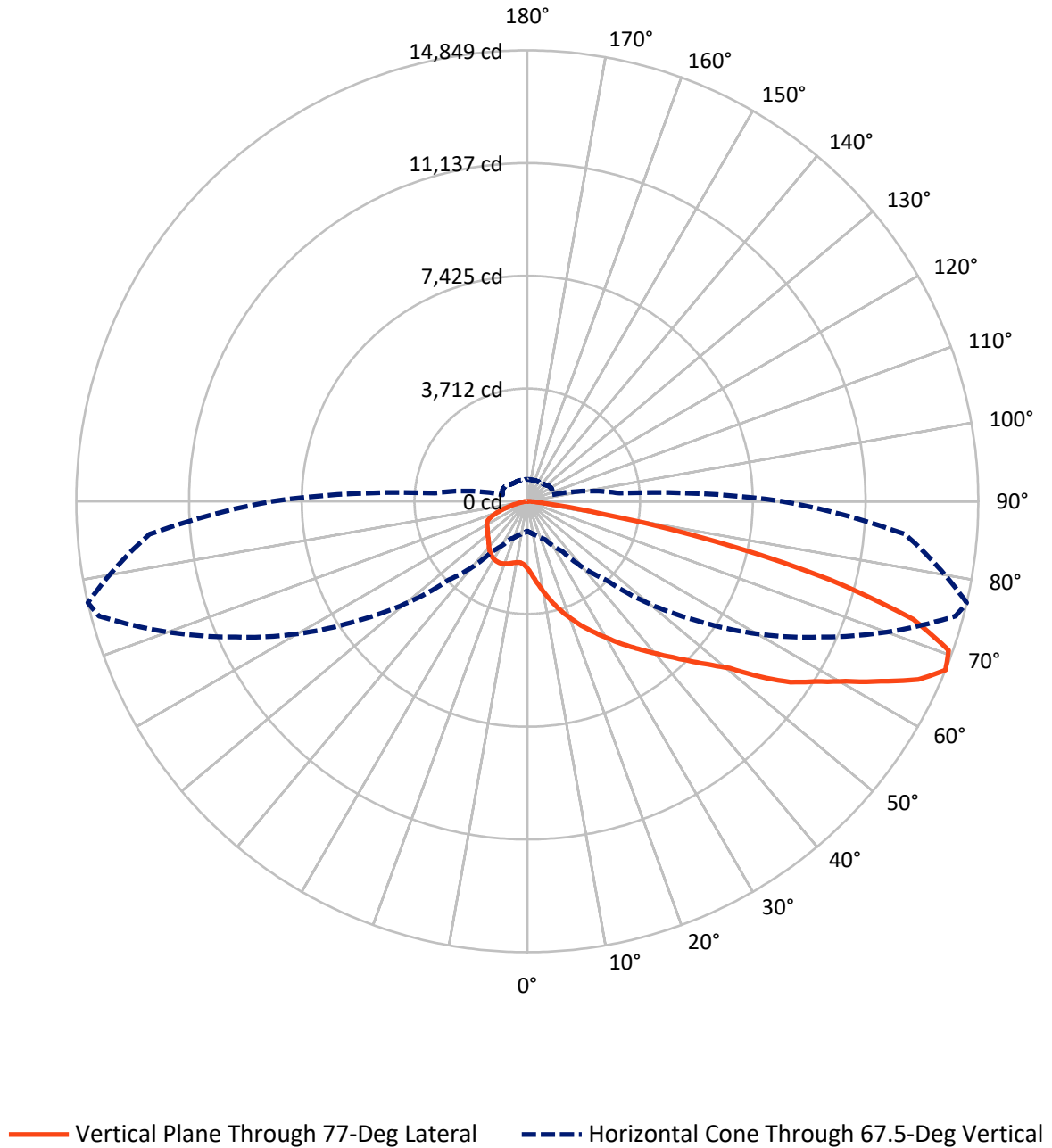
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3580.6	0.0	3580.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	15348.4	0.0	15348.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	18929.0	0.0	18929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.3
10°-20°	855.2	4.5
20°-30°	1614.8	8.5
30°-40°	2601.4	13.7
40°-50°	3558.2	18.8
50°-60°	4013.7	21.2
60°-70°	3746.3	19.8
70°-80°	2053.6	10.8
80°-90°	247.7	1.3
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°	18929.0	100.0
0°-180°	18929.0	100.0



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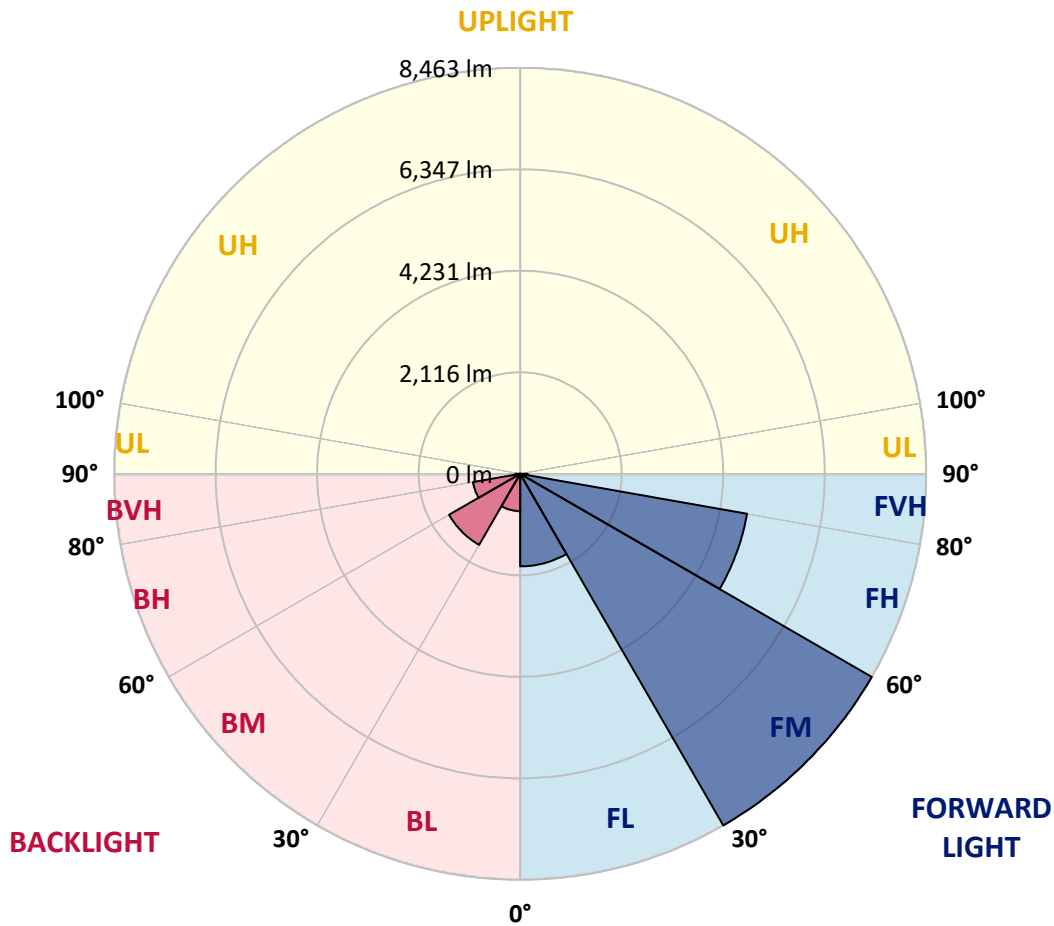
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.6	10.2			
FM (30°-60°)	8463.0	44.7			
FH (60°-80°)	4801.0	25.4			G2/5000
FVH (80°-90°)	154.9	0.8			G2/225
BL (0°-30°)	778.5	4.1	B2/1000		
BM (30°-60°)	1710.4	9.0	B2/2500		
BH (60°-80°)	998.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	92.8	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-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2.5°	2780.8	2800.4	2776.0	2776.0	2693.9	2650.9	2568.8	2506.3	2393.9	2374.4
5°	3287.0	3311.4	3277.2	3262.6	3165.8	3076.9	2939.1	2803.3	2603.0	2582.5
7.5°	3678.8	3710.1	3679.8	3664.1	3578.2	3478.5	3317.3	3127.7	2845.3	2805.3
10°	3998.3	4003.2	3993.4	3999.3	3931.9	3849.8	3684.7	3463.8	3111.1	3056.4
12.5°	4179.1	4201.6	4221.1	4256.3	4244.5	4193.7	4045.2	3781.4	3392.5	3322.2
15°	4264.1	4303.2	4347.1	4428.2	4493.7	4506.4	4393.1	4122.4	3678.8	3593.8
17.5°	4294.4	4331.5	4400.9	4518.1	4658.8	4753.6	4702.8	4453.6	3962.2	3864.5
20°	4447.8	4458.5	4500.5	4611.9	4764.4	4921.7	4959.8	4772.2	4242.6	4132.2
22.5°	4776.1	4754.6	4766.3	4817.1	4926.6	5079.0	5166.0	5053.6	4530.8	4403.8
25°	5318.4	5255.8	5193.3	5134.7	5190.4	5276.4	5375.1	5335.0	4832.8	4671.5
27.5°	6003.3	5927.1	5789.3	5596.9	5529.4	5559.7	5603.7	5595.9	5112.2	4949.0
30°	6677.5	6588.6	6424.5	6146.0	5968.2	5888.0	5854.8	5832.3	5416.1	5242.2
32.5°	7215.9	7145.6	6984.3	6672.7	6414.7	6277.9	6167.5	6087.4	5733.7	5559.7
35°	7686.9	7621.4	7436.7	7096.7	6816.3	6670.7	6526.1	6355.1	6063.9	5888.0
37.5°	8116.8	8051.3	7798.3	7444.6	7162.2	7061.5	6932.6	6642.4	6395.2	6229.0
40°	8388.4	8373.8	8137.3	7736.7	7443.6	7393.8	7350.8	6975.6	6762.5	6608.2
42.5°	8457.8	8490.1	8302.5	7973.2	7693.7	7653.7	7754.3	7352.7	7174.9	7027.3
45°	8290.7	8383.6	8260.4	8036.7	7871.6	7850.1	8111.9	7765.1	7631.2	7496.3
47.5°	7867.6	8025.0	7974.2	7942.9	7919.4	8012.3	8426.6	8202.8	8148.1	8030.8
50°	7013.7	7311.7	7400.6	7598.0	7824.7	8138.3	8712.8	8680.6	8751.9	8633.7
52.5°	5537.3	5947.6	6463.5	6958.0	7533.5	8096.3	9027.5	9366.5	9667.5	9603.0
55°	4570.9	4755.6	5152.3	6059.0	6968.7	7919.4	9169.2	9920.5	10576.2	10518.5
57.5°	3828.3	3993.4	4237.7	4995.0	6114.7	7517.8	9257.1	10258.6	11198.6	11192.7
60°	3032.0	3206.9	3457.0	3993.4	5117.1	6824.1	9237.6	10643.6	11993.0	12041.8
62.5°	2133.0	2325.5	2603.0	3103.3	4098.0	5925.2	8838.9	10922.1	12928.1	13061.0
65°	1402.1	1529.2	1738.3	2170.2	3053.5	4769.2	8077.7	10958.2	13928.6	14153.4
67.5°	983.0	1031.8	1154.9	1389.4	2012.8	3657.3	6865.1	10584.0	14596.0	14849.1
70°	767.0	791.5	854.0	947.8	1264.4	2459.4	5260.7	9610.8	14453.3	14717.2
72.5°	662.5	685.9	709.4	721.1	848.1	1518.4	3563.5	8035.7	13109.8	13288.6
75°	600.9	606.8	626.3	622.4	646.8	984.9	2056.8	5854.8	10343.6	10282.1
77.5°	505.2	513.0	545.2	540.3	574.5	673.2	1068.0	3778.5	6705.9	6287.7
80°	428.0	431.9	467.1	461.2	499.3	487.6	545.2	1925.9	2844.4	2409.5
82.5°	148.5	183.7	356.6	367.4	381.1	295.1	314.6	785.6	868.6	665.4
85°	72.3	77.2	181.7	258.0	257.0	148.5	153.4	280.4	273.6	215.0
87.5°	11.7	14.7	21.5	100.6	80.1	39.1	52.8	54.7	56.7	48.9
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°
2221.0	0°	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0	2221.0
2300.1	2.5°	2245.4	2196.5	2093.9	1999.2	1924.9	1853.6	1813.5	1779.3	1759.8	1755.9
2407.6	5°	2306.0	2205.3	2018.7	1861.4	1758.8	1682.6	1642.5	1617.1	1604.4	1596.6
2552.2	7.5°	2392.9	2245.4	1979.6	1800.8	1693.3	1638.6	1618.1	1614.2	1613.2	1614.2
2727.1	10°	2513.1	2310.9	1975.7	1786.1	1696.3	1666.0	1665.0	1666.0	1669.9	1670.8
2917.6	12.5°	2643.1	2378.3	1991.3	1798.9	1733.4	1716.8	1713.8	1712.9	1715.8	1717.8
3110.1	15°	2784.7	2467.2	2017.7	1826.2	1774.4	1756.8	1753.9	1748.0	1747.1	1746.1
3312.4	17.5°	2930.3	2555.1	2047.0	1855.5	1800.8	1776.4	1765.6	1751.9	1741.2	1738.3
3521.5	20°	3077.9	2642.1	2067.6	1870.2	1802.8	1768.6	1747.1	1723.6	1705.0	1694.3
3732.5	22.5°	3235.2	2733.0	2080.3	1866.3	1785.2	1738.3	1699.2	1671.8	1643.5	1624.9
3945.6	25°	3388.6	2812.1	2079.3	1845.8	1751.0	1691.4	1641.5	1606.4	1567.3	1547.7
4165.4	27.5°	3536.1	2883.4	2054.9	1809.6	1702.1	1635.7	1576.1	1534.1	1495.9	1477.4
4387.2	30°	3688.6	2943.0	2016.7	1756.8	1644.5	1571.2	1505.7	1469.6	1435.4	1417.8
4621.7	32.5°	3840.0	2997.8	1963.0	1691.4	1578.0	1507.7	1443.2	1410.0	1389.4	1389.4
4873.8	35°	4000.3	3035.9	1891.7	1615.2	1507.7	1440.3	1389.4	1369.9	1367.9	1356.2
5140.5	37.5°	4169.3	3060.3	1804.7	1537.0	1438.3	1374.8	1359.2	1335.7	1316.2	1290.8
5433.7	40°	4347.1	3084.7	1700.2	1455.9	1365.0	1329.8	1323.0	1291.7	1236.0	1173.5
5765.9	42.5°	4563.1	3101.3	1591.7	1374.8	1287.8	1276.1	1285.9	1232.1	1143.2	1096.3
6166.5	45°	4813.2	3128.7	1492.0	1294.7	1208.7	1208.7	1249.7	1179.4	1106.1	1076.8
6623.8	47.5°	5137.6	3192.2	1399.2	1206.7	1135.4	1154.9	1169.6	1115.9	1074.8	1038.7
7180.7	50°	5606.6	3344.6	1303.5	1117.8	1079.7	1118.8	1098.3	1067.0	1019.1	989.8
8066.0	52.5°	6189.0	3434.5	1218.4	1037.7	1031.8	1070.9	1041.6	1012.3	976.1	937.0
8737.3	55°	6585.7	3451.1	1147.1	979.1	999.6	995.7	984.9	958.5	939.0	887.2
9399.8	57.5°	7029.3	3484.4	1088.5	943.9	979.1	936.1	932.2	909.7	884.3	849.1
10207.8	60°	7559.9	3536.1	1037.7	930.2	961.5	897.0	877.4	868.6	843.2	825.7
11180.0	62.5°	8138.3	3583.0	985.9	932.2	941.0	858.9	829.6	826.6	811.0	805.1
12092.7	65°	8533.1	3455.0	921.4	930.2	908.7	819.8	782.7	781.7	769.0	767.0
12488.4	67.5°	8395.3	3049.5	834.4	902.8	875.5	780.7	739.7	735.8	719.1	720.1
12075.1	70°	7705.5	2471.1	714.3	835.4	834.4	745.5	694.7	682.0	659.5	663.5
10499.0	72.5°	6411.8	1831.1	553.0	723.1	769.0	713.3	642.9	622.4	594.1	598.0
7750.4	75°	4630.5	1244.8	402.6	550.1	669.3	675.2	592.1	556.9	522.8	528.6
4313.9	77.5°	2369.5	705.5	296.1	379.1	525.7	613.6	546.2	499.3	491.5	546.2
1243.9	80°	772.9	353.7	205.2	265.8	344.9	502.2	478.8	425.0	423.1	435.8
260.9	82.5°	230.6	149.5	131.9	174.9	190.5	385.0	413.3	321.5	276.5	291.2
87.0	85°	79.1	72.3	75.2	87.0	90.9	225.7	289.2	213.0	201.3	221.8
19.5	87.5°	18.6	25.4	21.5	19.5	19.5	54.7	112.4	88.9	123.1	82.1
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>
2221.0
1755.9
1595.6
1617.1
1671.8
1718.7
1745.1
1741.2
1698.2
1625.9
1547.7
1476.4
1416.8
1390.4
1353.3
1286.8
1164.7
1097.3
1081.7
1037.7
986.9
929.2
888.2
837.4
830.5
805.1
766.1
720.1
667.4
597.0
530.6
538.4
374.2
300.9
218.9
79.1
0.0

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