

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: P940915

Luminaire Tested: **GALN-SB4A-950-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-950-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12392 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

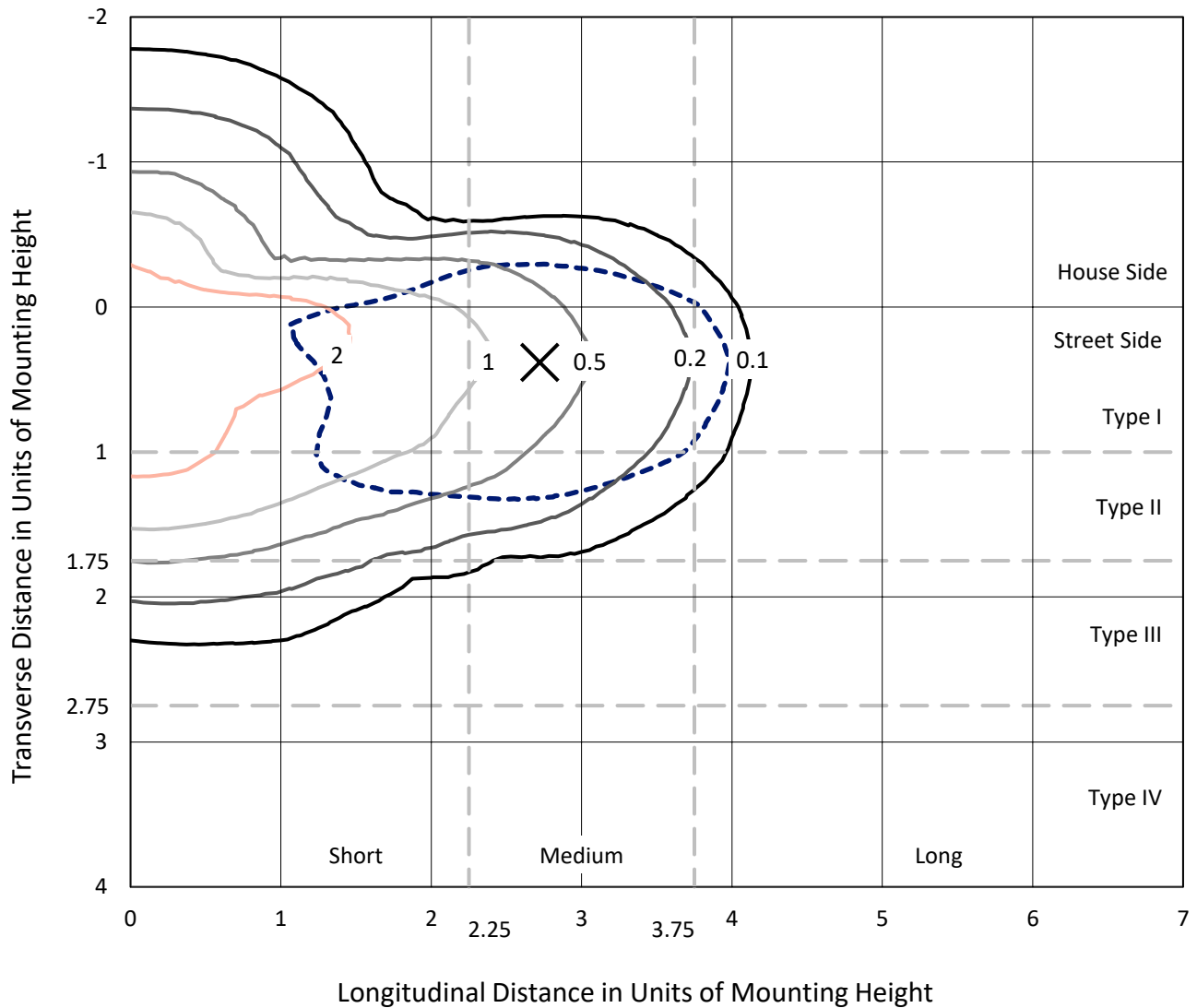
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

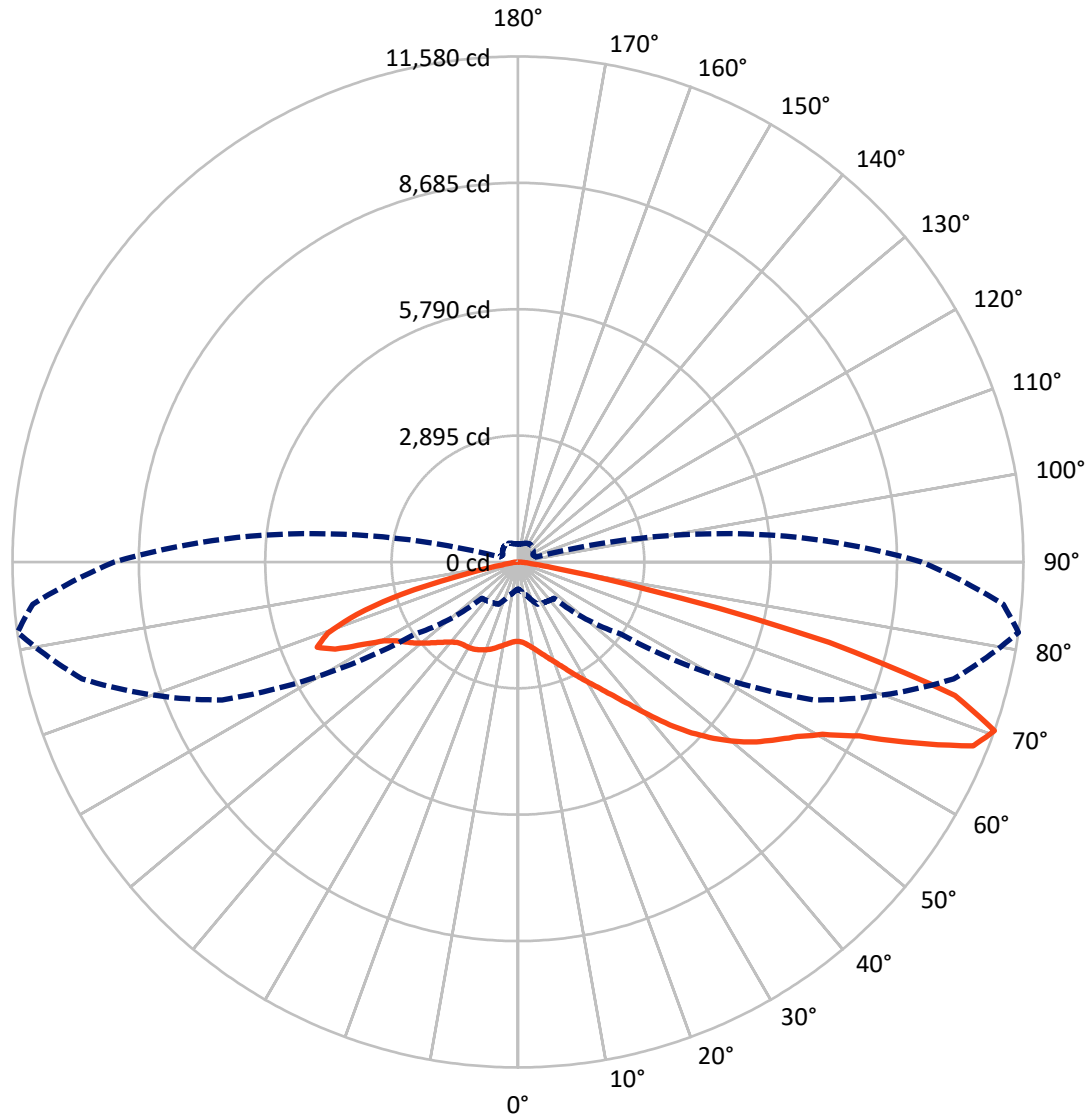
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3054.9	0.0	3054.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	9337.1	0.0	9337.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	12392.0	0.0	12392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	1.4
10°-20°	492.8	4.0
20°-30°	824.5	6.7
30°-40°	1288.0	10.4
40°-50°	2051.4	16.6
50°-60°	2854.7	23.0
60°-70°	2986.2	24.1
70°-80°	1560.7	12.6
80°-90°	162.1	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°	12392.0	100.0
0°-180°	12392.0	100.0

Coefficient of Utilization



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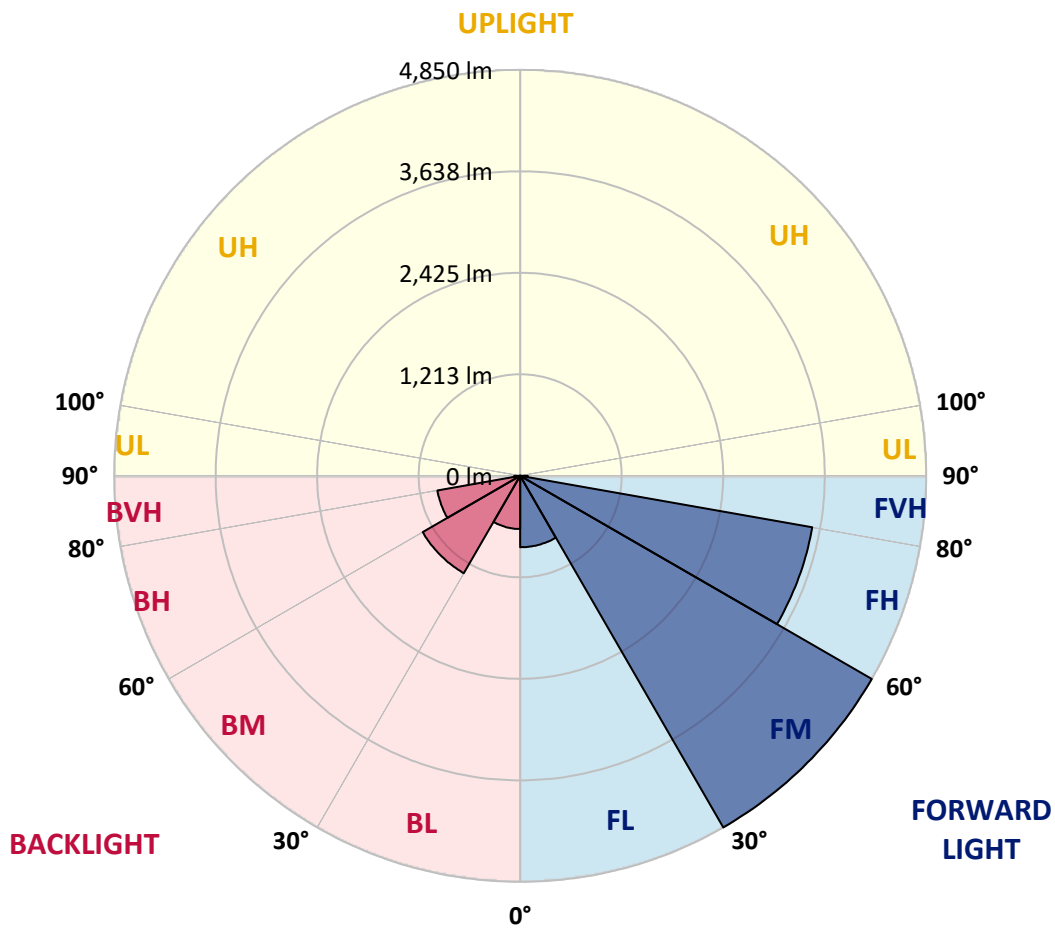
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.3	6.9			
FM (30°-60°)	4850.1	39.1			
FH (60°-80°)	3542.9	28.6			G2/5000
FVH (80°-90°)	90.7	0.7			G1/100
BL (0°-30°)	635.5	5.1	B2/1000		
BM (30°-60°)	1344.0	10.8	B2/2500		
BH (60°-80°)	1004.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	71.3	0.6			G1/100
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°	82°
0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
2.5°	1860.2	1870.7	1867.5	1864.2	1864.2	1859.6	1858.9	1852.3	1847.1	1838.5
5°	1883.9	1895.1	1893.8	1896.4	1904.9	1906.9	1908.9	1904.9	1894.4	1883.9
7.5°	1862.9	1875.3	1879.3	1895.1	1921.4	1945.0	1962.8	1970.0	1960.2	1945.0
10°	1791.8	1805.6	1819.5	1856.9	1903.6	1959.5	2006.9	2035.1	2033.2	2018.7
12.5°	1647.8	1662.3	1691.9	1764.9	1850.4	1949.0	2037.1	2096.3	2116.7	2106.1
15°	1532.8	1545.3	1567.6	1642.6	1753.7	1903.6	2048.3	2163.4	2215.3	2209.4
17.5°	1529.5	1534.7	1548.5	1584.0	1669.5	1832.6	2036.4	2229.1	2328.4	2327.7
20°	1587.3	1589.3	1597.2	1604.4	1653.1	1778.7	2006.2	2283.7	2455.3	2455.3
22.5°	1667.6	1666.2	1674.1	1667.6	1691.2	1774.1	1987.1	2331.7	2596.7	2607.2
25°	1787.9	1781.3	1779.3	1764.2	1768.8	1816.8	2008.2	2386.3	2764.4	2786.1
27.5°	1948.3	1937.8	1930.6	1895.7	1883.9	1904.9	2072.6	2452.0	2951.1	2988.6
30°	2157.4	2138.4	2127.8	2067.4	2024.6	2027.9	2169.9	2539.5	3146.4	3206.9
32.5°	2442.8	2413.2	2384.9	2285.7	2207.4	2181.8	2295.5	2660.5	3358.1	3454.8
35°	2762.4	2738.7	2708.5	2555.3	2434.9	2375.7	2465.2	2829.5	3606.0	3759.2
37.5°	3070.1	3049.7	3064.2	2857.7	2702.5	2616.4	2687.4	3056.3	3911.8	4138.0
40°	3388.4	3372.6	3374.6	3177.3	2996.5	2899.8	2957.0	3341.0	4262.3	4588.4
42.5°	3734.3	3722.4	3683.0	3508.1	3304.9	3214.8	3267.4	3669.8	4638.4	5101.3
45°	4121.5	4114.3	4077.5	3876.9	3644.2	3542.9	3613.9	4032.8	5016.5	5583.9
47.5°	4456.2	4462.2	4457.6	4288.6	4047.2	3898.6	3983.5	4411.5	5368.3	6037.7
50°	4617.3	4648.3	4693.6	4641.0	4491.1	4339.9	4356.3	4777.1	5703.6	6463.1
52.5°	4533.2	4591.7	4715.3	4799.5	4857.4	4825.8	4781.7	5140.1	6019.3	6847.1
55°	4219.5	4301.7	4506.9	4710.1	5005.3	5234.8	5292.7	5542.5	6327.0	7185.1
57.5°	3648.1	3781.6	3965.7	4376.7	4873.8	5432.7	5888.4	6100.8	6653.1	7546.1
60°	2668.4	2847.2	3076.0	3687.6	4413.5	5326.8	6395.4	6958.2	7116.7	8013.6
62.5°	1707.7	1818.1	2028.6	2604.6	3439.0	4784.4	6550.6	8030.1	7902.5	8780.3
65°	1169.1	1240.1	1432.8	1756.3	2223.2	3561.3	6135.0	8833.6	9150.5	9995.5
67.5°	849.6	903.5	1067.9	1351.3	1448.6	2107.5	4760.7	8796.8	10363.7	11247.5
70°	619.4	657.6	795.6	1067.9	1114.6	1172.4	2884.0	7477.7	10337.4	11580.2
72.5°	459.0	485.3	578.0	828.5	902.2	791.7	1427.6	5434.7	8882.9	10474.2
75°	332.1	351.8	420.2	633.9	722.0	603.0	712.1	3176.0	6196.1	7367.9
77.5°	253.8	268.9	313.7	464.2	578.0	452.4	441.9	1461.1	2938.0	2952.4
80°	203.8	213.7	238.0	326.8	443.2	338.6	288.0	589.8	928.5	785.8
82.5°	149.9	166.4	201.2	229.5	316.9	233.4	175.6	297.9	353.1	303.8
85°	85.5	96.7	121.6	164.4	202.5	142.7	100.6	132.2	164.4	134.8
87.5°	30.2	39.5	42.7	64.4	88.1	59.2	38.8	38.1	53.9	40.1
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°
1816.8	0°	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8	1816.8
1836.5	2.5°	1830.0	1826.7	1813.5	1795.8	1777.4	1759.6	1753.7	1741.2	1732.7	1728.1
1879.3	5°	1866.8	1856.3	1825.4	1785.9	1744.5	1699.8	1668.2	1639.3	1618.2	1598.5
1937.8	7.5°	1919.4	1901.0	1847.7	1778.7	1705.0	1630.7	1575.5	1533.4	1505.1	1486.7
2006.2	10°	1980.6	1952.3	1870.7	1767.5	1653.7	1547.2	1482.1	1446.0	1428.2	1418.3
2084.4	12.5°	2050.9	2010.8	1894.4	1741.9	1575.5	1453.9	1409.1	1398.6	1399.3	1399.9
2183.1	15°	2137.7	2081.8	1913.5	1686.0	1473.6	1382.2	1374.3	1391.4	1409.1	1417.7
2294.9	17.5°	2235.7	2156.8	1916.8	1593.9	1373.6	1336.2	1361.1	1398.0	1424.9	1436.8
2419.8	20°	2340.9	2233.1	1893.1	1463.7	1291.4	1298.7	1343.4	1390.7	1420.3	1435.4
2562.5	22.5°	2461.2	2314.6	1836.5	1326.9	1224.4	1257.9	1310.5	1356.5	1387.4	1402.6
2730.2	25°	2598.7	2406.0	1747.8	1211.9	1166.5	1211.9	1264.5	1302.6	1327.6	1341.4
2917.6	27.5°	2751.2	2501.3	1629.4	1120.5	1115.9	1164.5	1207.9	1237.5	1250.7	1261.2
3116.8	30°	2904.4	2588.1	1486.1	1051.4	1071.8	1117.8	1148.7	1161.9	1165.8	1167.8
3339.1	32.5°	3070.1	2663.1	1335.5	994.2	1029.7	1072.5	1090.9	1096.8	1078.4	1065.9
3608.7	35°	3270.7	2743.3	1188.2	948.9	988.3	1025.1	1031.0	1025.8	1004.1	978.4
3946.6	37.5°	3518.6	2843.3	1070.5	916.6	949.5	973.8	966.6	965.3	967.3	937.0
4353.0	40°	3822.4	2973.5	984.4	891.6	917.9	923.2	902.8	914.0	923.9	877.8
4798.8	42.5°	4159.7	3130.6	929.8	874.5	891.6	879.1	847.6	860.1	858.8	798.3
5246.6	45°	4503.6	3301.6	910.7	862.1	867.3	842.3	807.5	810.8	783.1	728.6
5676.0	47.5°	4845.5	3485.0	922.5	851.5	837.1	808.8	781.8	767.4	726.6	685.8
6087.6	50°	5180.9	3677.7	965.9	830.5	795.6	779.2	759.5	733.8	690.4	655.6
6476.9	52.5°	5491.9	3871.7	1014.6	795.6	743.7	753.6	741.1	711.5	668.7	633.2
6845.1	55°	5786.5	4065.7	1033.7	747.6	695.0	731.2	724.0	669.4	618.1	589.2
7230.5	57.5°	6107.4	4299.1	1012.6	686.5	655.6	705.6	677.9	617.4	587.9	566.2
7732.2	60°	6551.9	4665.3	967.3	610.9	618.1	667.4	620.1	595.1	562.9	538.5
8484.4	62.5°	7290.3	5348.5	894.3	535.9	574.0	610.9	592.5	567.5	534.6	510.9
9770.6	65°	8381.8	6298.1	756.8	477.4	524.7	555.6	562.9	537.9	503.7	478.7
10897.6	67.5°	9302.4	6893.8	572.7	428.7	474.1	510.9	531.3	507.0	470.8	446.5
11161.3	70°	9251.8	6461.1	437.3	380.7	429.4	466.9	493.2	474.1	435.3	412.3
10138.2	72.5°	8217.5	5405.1	353.8	332.1	384.0	420.8	452.4	437.9	398.5	376.1
7427.1	75°	6037.0	3836.8	282.7	282.7	327.5	372.8	407.7	398.5	362.3	346.5
3118.1	77.5°	2544.7	1609.7	221.6	234.7	272.2	320.2	363.6	366.9	335.4	355.1
824.6	80°	676.6	443.8	169.0	184.8	213.7	264.3	316.3	315.0	280.8	262.4
306.4	82.5°	257.8	174.9	120.3	130.2	154.5	202.5	250.5	258.4	224.2	194.0
120.3	85°	99.3	75.0	74.3	78.2	90.1	134.1	189.4	196.0	169.0	143.3
33.5	87.5°	25.6	22.4	27.6	26.3	41.4	71.7	108.5	112.4	103.2	59.8
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>
1816.8
1733.3
1606.4
1490.7
1421.0
1401.2
1417.0
1439.4
1439.4
1406.5
1345.4
1265.1
1172.4
1069.8
979.8
939.0
879.1
797.6
730.5
685.8
653.0
633.9
586.5
564.2
537.2
510.9
480.0
447.1
414.3
376.1
341.9
322.2
244.0
194.0
147.9
85.5
0.0

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