

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: P940047

Luminaire Tested: **GALN-SB2D-935-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-935-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14166 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

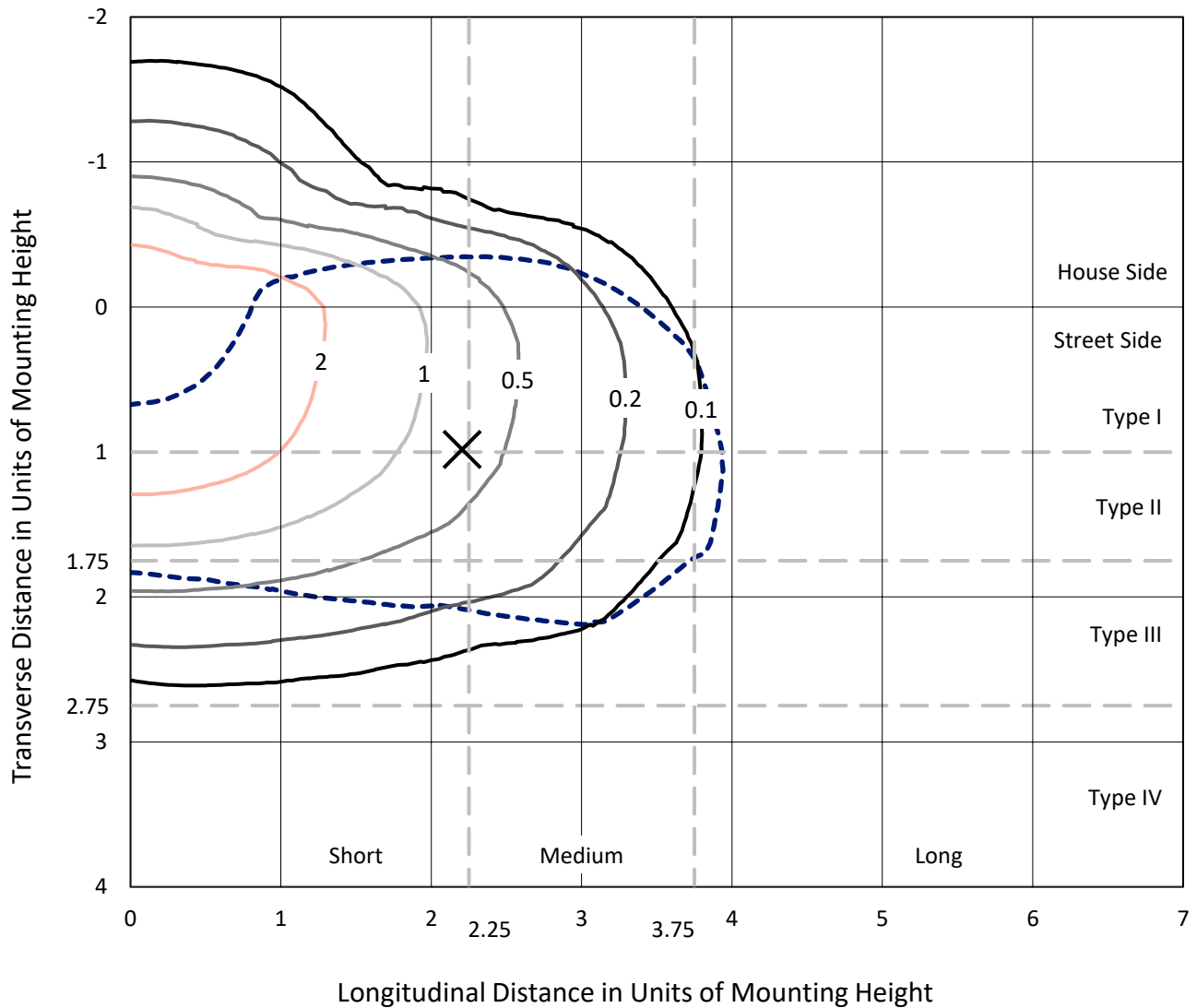
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940047
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Iso-Footcandle Lines of Horizontal Illumination

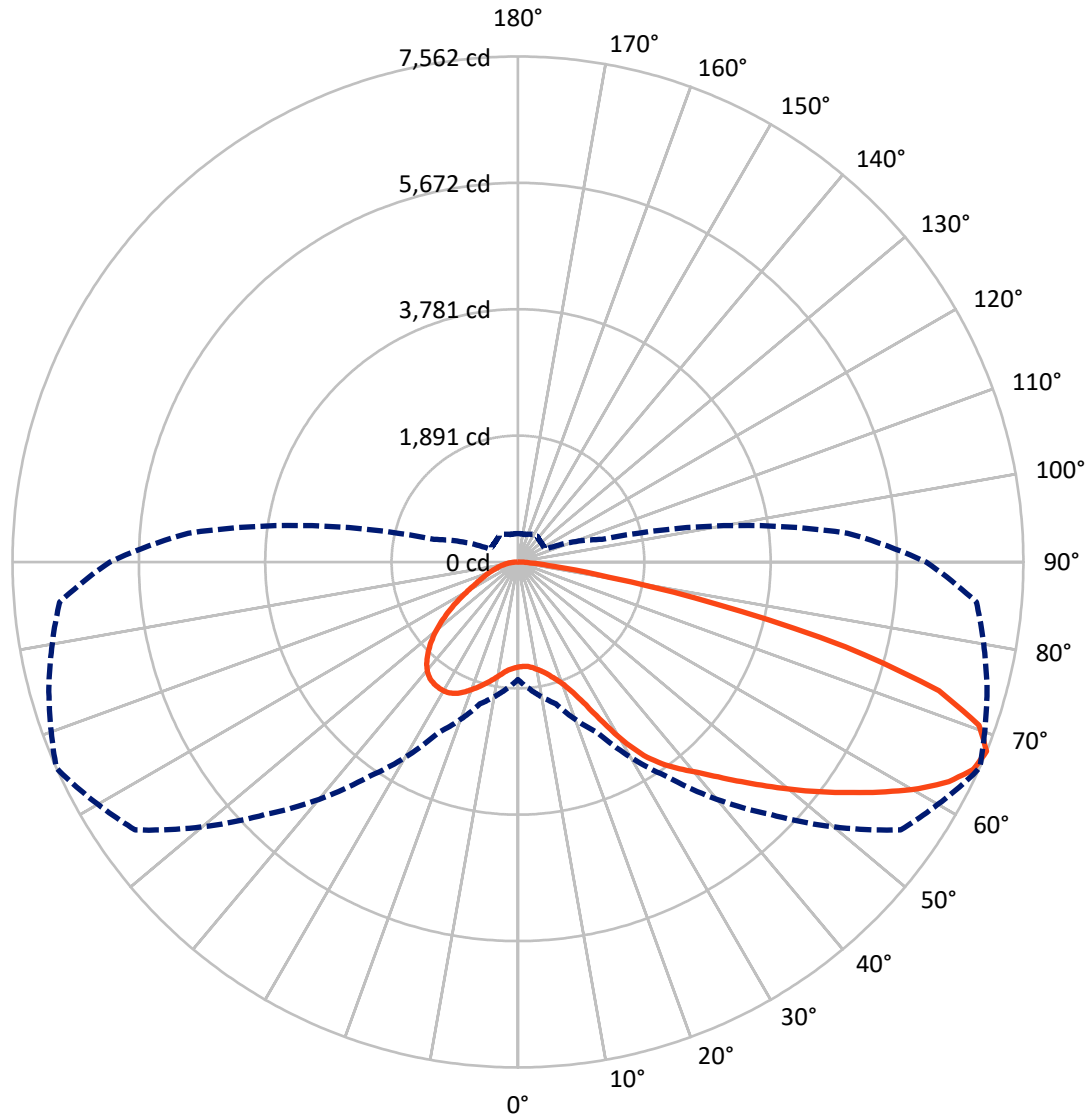
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

REPORT NUMBER: P940047
CATALOG NUMBER: GALN-SB2D-935-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3522.3	0.0	3522.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	10643.7	0.0	10643.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	14166.0	0.0	14166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	1.1
10°-20°	514.7	3.6
20°-30°	992.0	7.0
30°-40°	1739.3	12.3
40°-50°	2585.8	18.3
50°-60°	3277.8	23.1
60°-70°	3207.2	22.6
70°-80°	1529.9	10.8
80°-90°	163.5	1.2
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°	14166.0	100.0
0°-180°	14166.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940047

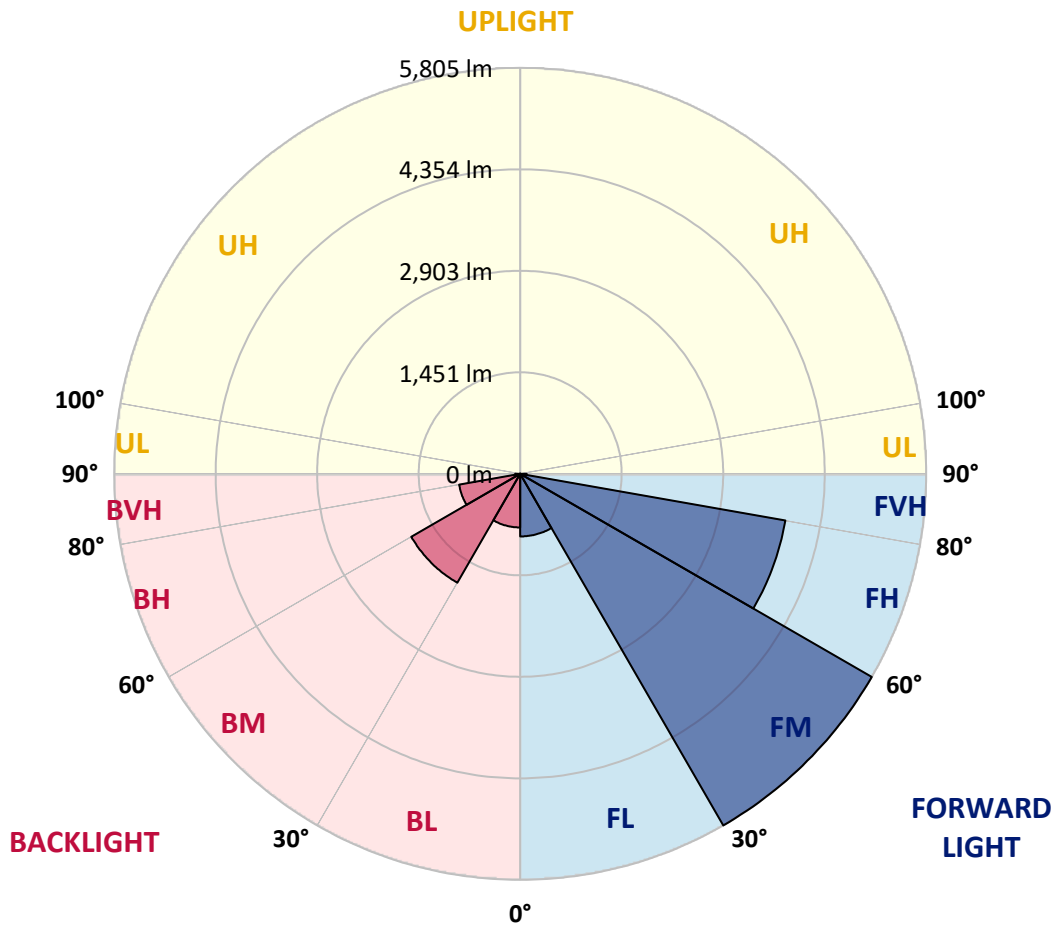
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.2	6.3			
FM (30°-60°)	5805.1	41.0			
FH (60°-80°)	3850.7	27.2			G2/5000
FVH (80°-90°)	92.7	0.7			G1/100
BL (0°-30°)	767.3	5.4	B2/1000		
BM (30°-60°)	1797.8	12.7	B2/2500		
BH (60°-80°)	886.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	70.8	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 III Short



REPORT NUMBER: P940047

CATALOG NUMBER: GALN-SB2D-935-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2
2.5°	1554.8	1563.8	1561.5	1557.8	1557.1	1558.5	1560.8	1563.0	1562.3	1566.0
5°	1550.4	1559.3	1558.5	1558.5	1561.5	1567.5	1571.2	1574.9	1571.2	1575.7
7.5°	1553.3	1560.0	1563.0	1566.0	1573.4	1584.6	1593.5	1601.7	1597.2	1602.5
10°	1591.3	1596.5	1599.5	1599.5	1604.7	1617.3	1626.3	1641.2	1637.4	1645.6
12.5°	1660.5	1665.7	1665.7	1662.7	1666.5	1674.7	1677.6	1694.0	1687.3	1700.7
15°	1745.4	1755.8	1747.6	1742.4	1743.9	1752.1	1751.3	1764.0	1757.3	1768.4
17.5°	1839.1	1852.5	1839.1	1838.4	1835.4	1844.4	1845.1	1856.3	1844.4	1852.5
20°	1950.0	1968.6	1957.5	1961.2	1954.5	1958.2	1961.9	1978.3	1959.7	1965.7
22.5°	2106.3	2128.7	2116.8	2130.9	2126.4	2123.5	2122.7	2151.7	2122.7	2124.9
25°	2334.1	2360.9	2340.0	2359.4	2359.4	2369.1	2380.2	2417.5	2369.1	2354.9
27.5°	2670.5	2697.3	2656.4	2668.3	2664.6	2688.4	2676.5	2768.8	2716.7	2693.6
30°	3075.4	3123.0	3045.6	3042.7	3038.9	3076.9	3094.0	3155.0	3102.2	3079.1
32.5°	3513.0	3562.9	3470.6	3443.8	3429.7	3452.8	3438.6	3487.7	3451.3	3415.5
35°	3976.0	4025.1	3937.3	3885.2	3828.6	3780.2	3729.6	3742.3	3708.1	3653.7
37.5°	4413.6	4503.7	4410.7	4354.8	4250.6	4156.1	4014.7	3955.9	3923.9	3874.0
40°	4859.5	4910.8	4840.1	4792.5	4679.4	4531.2	4305.0	4180.7	4137.5	4089.1
42.5°	5187.7	5236.8	5198.9	5166.1	5077.5	4905.6	4613.1	4457.6	4395.0	4340.7
45°	5448.2	5484.7	5460.9	5472.8	5434.8	5268.1	4932.4	4754.5	4689.8	4623.5
47.5°	5553.1	5591.9	5629.8	5700.5	5765.3	5642.5	5275.5	5076.1	5007.6	4939.9
50°	5541.2	5580.7	5690.8	5841.2	6042.1	6001.2	5637.3	5418.4	5355.2	5277.8
52.5°	5446.0	5490.6	5632.0	5882.1	6202.2	6269.9	6005.7	5772.0	5712.4	5620.1
55°	5195.9	5222.7	5434.8	5789.1	6240.1	6457.5	6366.7	6148.6	6089.0	5960.3
57.5°	4732.2	4770.9	5079.8	5538.3	6144.9	6584.7	6683.7	6544.5	6487.2	6301.9
60°	4127.1	4188.9	4542.4	5117.0	5902.2	6584.0	6971.8	6933.8	6886.2	6638.3
62.5°	3442.3	3513.8	3853.9	4521.6	5478.0	6397.2	7151.9	7259.8	7235.2	6948.7
65°	2643.7	2692.8	3031.5	3751.2	4817.8	5996.0	7172.7	7482.3	7486.8	7184.6
67.5°	1760.2	1901.7	2195.7	2814.9	3933.6	5340.3	6989.6	7518.8	7562.0	7265.8
70°	858.9	1045.0	1333.0	1829.5	2814.9	4334.7	6511.1	7219.6	7315.6	7029.1
72.5°	356.5	416.8	573.8	902.8	1615.9	2925.1	5549.4	6408.3	6586.2	6228.2
75°	240.4	260.5	328.2	462.9	736.1	1442.4	4002.0	4778.3	5064.9	4703.9
77.5°	185.3	198.0	238.9	323.8	437.6	545.6	2142.1	2879.7	3027.8	2803.0
80°	145.9	155.6	178.6	235.9	310.4	291.8	730.1	1304.7	1390.3	1166.3
82.5°	126.5	130.3	128.0	160.0	206.2	170.4	239.7	481.6	531.4	385.5
85°	91.5	102.0	106.4	99.0	109.4	86.3	98.2	170.4	187.6	167.5
87.5°	37.2	55.1	67.7	64.0	40.2	24.6	30.5	49.9	57.3	62.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940047
 CATALOG NUMBER: GALN-SB2D-935-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1571.2	0°	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2	1571.2
1571.9	2.5°	1572.7	1577.9	1581.6	1586.1	1589.1	1593.5	1602.5	1607.7	1608.4	1612.1
1583.8	5°	1586.8	1594.3	1602.5	1614.4	1627.8	1638.9	1656.0	1668.0	1672.4	1676.1
1612.9	7.5°	1617.3	1627.8	1642.6	1663.5	1682.8	1697.7	1718.6	1732.7	1746.8	1752.1
1659.0	10°	1662.7	1677.6	1699.2	1727.5	1748.3	1767.7	1789.3	1801.2	1815.3	1821.3
1714.1	12.5°	1719.3	1734.9	1763.2	1802.7	1822.0	1835.4	1842.9	1839.9	1842.9	1848.1
1780.3	15°	1784.1	1801.2	1833.2	1875.6	1889.0	1877.1	1860.7	1845.8	1843.6	1845.1
1860.7	17.5°	1860.7	1873.4	1910.6	1946.3	1936.6	1887.5	1851.8	1828.0	1816.1	1812.3
1963.4	20°	1967.9	1967.9	1998.4	2020.7	1956.0	1872.6	1816.8	1778.1	1753.5	1743.1
2103.4	22.5°	2098.2	2086.2	2105.6	2090.0	1952.3	1831.0	1753.5	1686.6	1649.3	1634.5
2299.1	25°	2263.4	2249.2	2244.0	2147.3	1925.5	1764.7	1638.9	1557.8	1525.1	1516.9
2581.2	27.5°	2512.7	2477.0	2409.3	2178.5	1876.4	1660.5	1505.0	1429.8	1411.2	1411.9
2943.7	30°	2844.7	2773.2	2607.2	2183.7	1796.0	1513.1	1368.0	1314.4	1305.5	1309.2
3248.1	32.5°	3152.1	3084.3	2809.7	2159.9	1672.4	1368.7	1245.2	1209.5	1196.1	1200.5
3480.3	35°	3393.2	3374.6	2997.3	2126.4	1520.6	1233.3	1135.0	1104.5	1078.5	1072.5
3699.1	37.5°	3621.0	3613.5	3137.9	2079.5	1370.2	1137.3	1046.5	1006.3	968.3	947.5
3941.0	40°	3871.1	3863.6	3230.2	2007.4	1237.0	1053.9	966.8	914.0	867.1	829.1
4214.9	42.5°	4152.4	4108.5	3274.1	1903.9	1123.9	983.2	902.1	830.6	768.9	733.9
4524.5	45°	4459.8	4360.8	3273.4	1772.2	1028.6	918.5	832.9	731.6	674.3	641.6
4842.4	47.5°	4785.8	4601.9	3233.2	1626.3	936.3	847.0	725.7	648.3	610.3	590.2
5187.7	50°	5122.2	4827.5	3164.7	1458.8	841.8	765.9	658.7	605.9	576.8	558.2
5530.1	52.5°	5438.5	5032.1	3082.1	1269.0	745.8	687.0	628.9	588.0	557.5	536.6
5862.0	55°	5732.5	5208.5	2965.3	1074.8	667.6	634.1	614.8	580.5	545.6	521.0
6199.2	57.5°	5993.8	5323.2	2763.5	892.4	611.8	597.7	599.9	567.9	527.7	506.9
6531.1	60°	6211.1	5407.3	2465.1	723.5	566.4	561.9	576.8	544.1	497.2	473.4
6811.7	62.5°	6341.4	5405.8	2098.9	592.5	527.7	529.2	546.3	514.3	466.7	444.3
6958.4	65°	6330.2	5273.3	1697.0	506.9	490.5	492.0	514.3	481.6	441.4	428.0
6884.7	67.5°	6106.2	4950.3	1301.8	451.0	449.6	456.2	482.3	459.2	425.7	424.2
6445.6	70°	5499.6	4279.7	937.8	406.4	407.1	416.8	451.0	445.1	417.5	420.5
5419.2	72.5°	4409.9	3263.0	629.7	359.5	360.2	375.9	421.3	433.9	409.4	448.8
3845.0	75°	2937.0	2034.9	404.9	309.6	310.4	330.5	395.2	412.3	387.0	447.3
2000.7	77.5°	1411.2	914.7	293.3	260.5	260.5	279.1	341.6	369.2	329.7	347.6
643.1	80°	487.5	343.9	230.7	209.9	205.4	218.1	288.0	320.0	284.3	262.0
209.9	82.5°	192.0	178.6	185.3	163.0	148.1	156.3	224.0	264.2	209.1	189.0
118.3	85°	110.2	116.1	131.0	107.9	85.6	96.0	164.5	189.8	157.8	139.2
38.7	87.5°	29.8	40.9	60.3	55.8	38.7	40.9	78.2	104.9	90.8	70.0
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>
1571.2
1611.4
1675.4
1752.8
1824.3
1849.6
1850.3
1817.6
1740.9
1632.2
1518.4
1414.2
1321.9
1206.5
1077.0
948.2
832.9
736.1
640.1
585.8
551.5
527.7
511.3
493.5
462.9
437.6
427.2
426.5
419.8
454.8
451.0
318.6
245.6
188.3
142.2
72.2
0.0

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