

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: P940057

Luminaire Tested: **GALN-SB2D-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940057
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-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14757 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

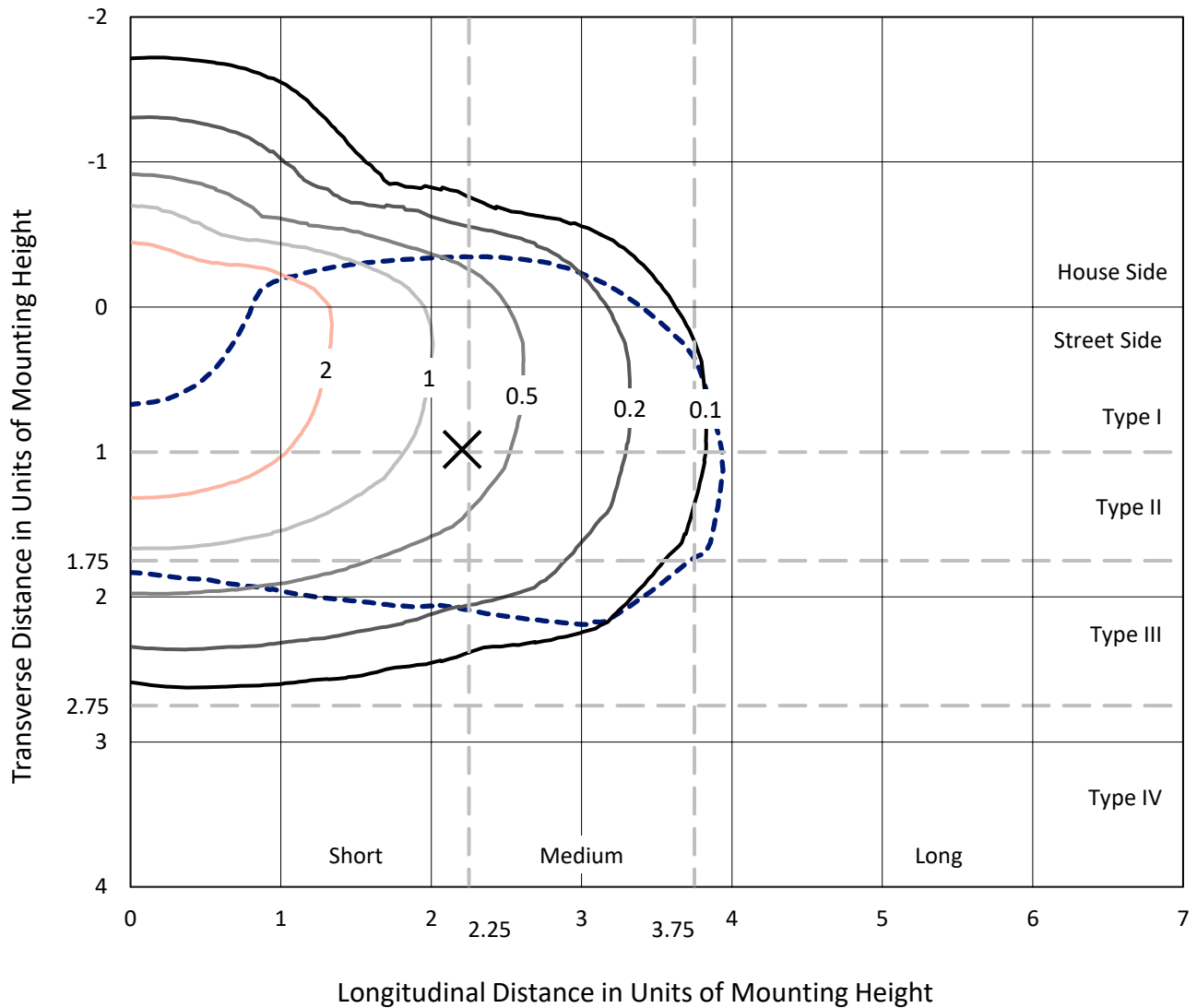
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

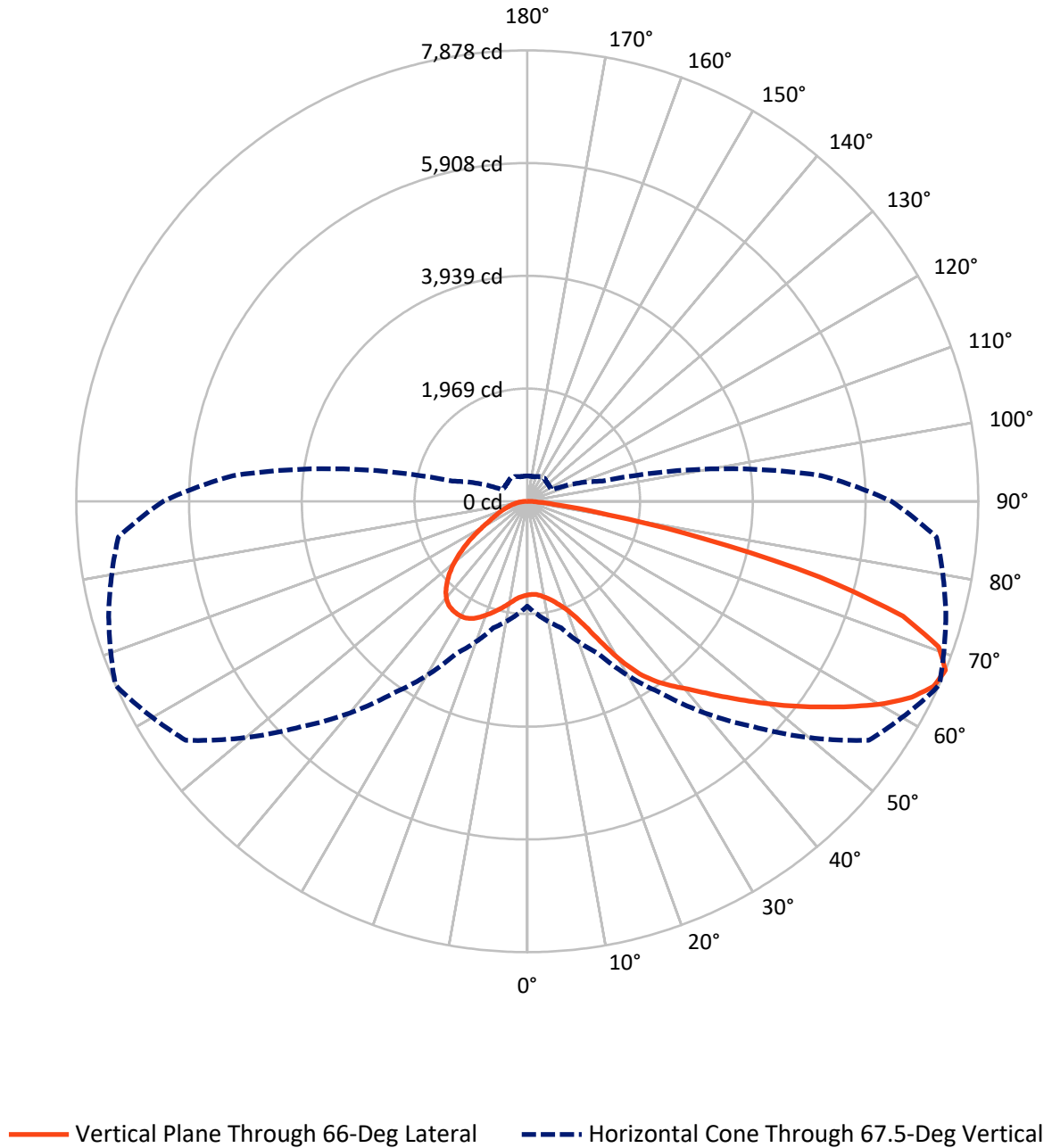
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3669.3	0.0	3669.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11087.7	0.0	11087.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	14757.0	0.0	14757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	1.1
10°-20°	536.1	3.6
20°-30°	1033.4	7.0
30°-40°	1811.9	12.3
40°-50°	2693.7	18.3
50°-60°	3414.5	23.1
60°-70°	3341.0	22.6
70°-80°	1593.7	10.8
80°-90°	170.3	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°	14757.0	100.0
0°-180°	14757.0	100.0

Coefficient of Utilization



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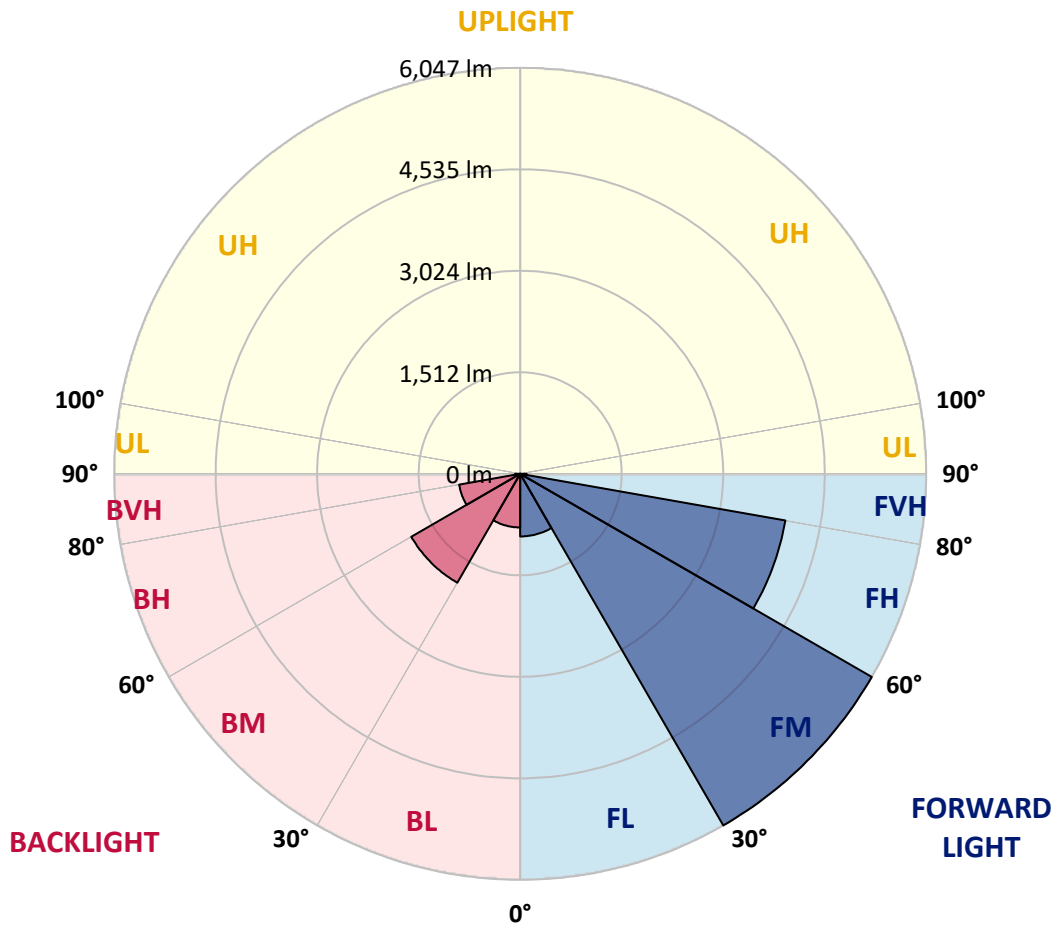
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.5	6.3			
FM	(30°-60°)	6047.3	41.0			
FH	(60°-80°)	4011.4	27.2			G2/5000
FVH	(80°-90°)	96.6	0.7			G1/100
BL	(0°-30°)	799.3	5.4	B2/1000		
BM	(30°-60°)	1872.8	12.7	B2/2500		
BH	(60°-80°)	923.4	6.3	B2/1000		G2/1000
BVH	(80°-90°)	73.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7
2.5°	1619.7	1629.0	1626.7	1622.8	1622.0	1623.6	1625.9	1628.2	1627.4	1631.3
5°	1615.0	1624.3	1623.6	1623.6	1626.7	1632.9	1636.7	1640.6	1636.7	1641.4
7.5°	1618.1	1625.1	1628.2	1631.3	1639.1	1650.7	1660.0	1668.5	1663.9	1669.3
10°	1657.7	1663.1	1666.2	1666.2	1671.6	1684.8	1694.1	1709.6	1705.8	1714.3
12.5°	1729.8	1735.2	1735.2	1732.1	1736.0	1744.5	1747.6	1764.7	1757.7	1771.7
15°	1818.2	1829.0	1820.5	1815.1	1816.6	1825.2	1824.4	1837.6	1830.6	1842.2
17.5°	1915.9	1929.8	1915.9	1915.1	1912.0	1921.3	1922.1	1933.7	1921.3	1929.8
20°	2031.4	2050.8	2039.1	2043.0	2036.0	2039.9	2043.8	2060.9	2041.5	2047.7
22.5°	2194.2	2217.5	2205.1	2219.8	2215.2	2212.0	2211.3	2241.5	2211.3	2213.6
25°	2431.5	2459.4	2437.7	2457.8	2457.8	2467.9	2479.5	2518.3	2467.9	2453.2
27.5°	2781.9	2809.8	2767.2	2779.6	2775.7	2800.5	2788.1	2884.3	2830.0	2806.0
30°	3203.7	3253.3	3172.7	3169.6	3165.7	3205.3	3223.1	3286.7	3231.6	3207.6
32.5°	3659.6	3711.6	3615.4	3587.5	3572.8	3596.8	3582.1	3633.3	3595.3	3558.0
35°	4141.9	4193.0	4101.6	4047.3	3988.4	3938.0	3885.2	3898.4	3862.8	3806.2
37.5°	4597.8	4691.6	4594.7	4536.5	4428.0	4329.5	4182.2	4120.9	4087.6	4035.7
40°	5062.2	5115.7	5042.0	4992.4	4874.6	4720.3	4484.6	4355.1	4310.1	4259.7
42.5°	5404.1	5455.3	5415.8	5381.6	5289.4	5110.3	4805.6	4643.5	4578.4	4521.8
45°	5675.5	5713.5	5688.7	5701.1	5661.5	5487.9	5138.2	4952.9	4885.4	4816.4
47.5°	5784.8	5825.1	5864.7	5938.3	6005.8	5877.9	5495.6	5287.8	5216.5	5145.9
50°	5772.4	5813.5	5928.3	6084.9	6294.2	6251.6	5872.4	5644.5	5578.6	5497.9
52.5°	5673.2	5719.7	5867.0	6127.5	6460.9	6531.5	6256.2	6012.8	5950.7	5854.6
55°	5412.7	5440.6	5661.5	6030.6	6500.5	6726.9	6632.3	6405.1	6343.1	6208.9
57.5°	4929.6	4969.9	5291.7	5769.3	6401.2	6859.4	6962.6	6817.6	6757.9	6564.8
60°	4299.3	4363.6	4731.9	5330.5	6148.5	6858.7	7262.6	7223.1	7173.5	6915.3
62.5°	3586.0	3660.4	4014.7	4710.2	5706.5	6664.1	7450.3	7562.7	7537.1	7238.6
65°	2754.0	2805.2	3158.0	3907.7	5018.8	6246.2	7472.0	7794.5	7799.2	7484.4
67.5°	1833.7	1981.0	2287.3	2932.3	4097.7	5563.1	7281.2	7832.5	7877.5	7568.9
70°	894.7	1088.6	1388.6	1905.8	2932.3	4515.6	6782.7	7520.8	7620.8	7322.3
72.5°	371.4	434.2	597.8	940.5	1683.3	3047.1	5780.9	6675.7	6861.0	6488.1
75°	250.4	271.4	341.9	482.3	766.8	1502.6	4169.0	4977.7	5276.2	4900.2
77.5°	193.1	206.2	248.9	337.3	455.9	568.3	2231.4	2999.8	3154.1	2919.9
80°	152.0	162.0	186.1	245.8	323.3	303.9	760.6	1359.2	1448.3	1215.0
82.5°	131.8	135.7	133.4	166.7	214.8	177.6	249.7	501.6	553.6	401.6
85°	95.4	106.2	110.9	103.1	114.0	89.9	102.3	177.6	195.4	174.5
87.5°	38.8	57.4	70.6	66.7	41.9	25.6	31.8	51.9	59.7	65.1
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°
1636.7	0°	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7	1636.7
1637.5	2.5°	1638.3	1643.7	1647.6	1652.3	1655.4	1660.0	1669.3	1674.7	1675.5	1679.4
1649.9	5°	1653.0	1660.8	1669.3	1681.7	1695.7	1707.3	1725.1	1737.5	1742.2	1746.1
1680.2	7.5°	1684.8	1695.7	1711.2	1732.9	1753.0	1768.6	1790.3	1805.0	1819.7	1825.2
1728.2	10°	1732.1	1747.6	1770.1	1799.6	1821.3	1841.4	1863.9	1876.3	1891.1	1897.3
1785.6	12.5°	1791.0	1807.3	1836.8	1877.9	1898.0	1912.0	1919.7	1916.6	1919.7	1925.2
1854.6	15°	1858.5	1876.3	1909.7	1953.9	1967.8	1955.4	1938.4	1922.8	1920.5	1922.1
1938.4	17.5°	1938.4	1951.5	1990.3	2027.5	2017.4	1966.3	1929.1	1904.2	1891.8	1888.0
2045.4	20°	2050.0	2050.0	2081.8	2105.1	2037.6	1950.8	1892.6	1852.3	1826.7	1815.9
2191.1	22.5°	2185.7	2173.3	2193.4	2177.2	2033.7	1907.3	1826.7	1756.9	1718.2	1702.7
2395.0	25°	2357.8	2343.1	2337.7	2236.9	2005.8	1838.3	1707.3	1622.8	1588.7	1580.1
2688.9	27.5°	2617.6	2580.3	2509.8	2269.4	1954.6	1729.8	1567.7	1489.4	1470.0	1470.8
3066.5	30°	2963.4	2888.9	2716.0	2274.9	1870.9	1576.3	1425.1	1369.3	1359.9	1363.8
3383.6	32.5°	3283.6	3213.0	2926.9	2250.0	1742.2	1425.9	1297.1	1259.9	1246.0	1250.6
3625.5	35°	3534.8	3515.4	3122.3	2215.2	1584.0	1284.7	1182.4	1150.6	1123.5	1117.3
3853.4	37.5°	3772.0	3764.3	3268.8	2166.3	1427.4	1184.7	1090.1	1048.3	1008.7	987.0
4105.4	40°	4032.6	4024.8	3365.0	2091.1	1288.6	1097.9	1007.2	952.1	903.3	863.7
4390.8	42.5°	4325.6	4279.9	3410.7	1983.3	1170.8	1024.2	939.7	865.3	800.9	764.5
4713.3	45°	4645.8	4542.7	3410.0	1846.1	1071.5	956.8	867.6	762.2	702.5	668.3
5044.4	47.5°	4985.4	4793.9	3368.1	1694.1	975.4	882.3	756.0	675.3	635.8	614.8
5404.1	50°	5335.9	5028.9	3296.8	1519.7	876.9	797.8	686.2	631.1	600.9	581.5
5760.8	52.5°	5665.4	5242.1	3210.7	1322.0	776.9	715.6	655.2	612.5	580.7	559.0
6106.6	55°	5971.7	5425.8	3089.0	1119.6	695.5	660.6	640.4	604.8	568.3	542.7
6457.8	57.5°	6243.8	5545.2	2878.8	929.6	637.3	622.6	624.9	591.6	549.7	528.0
6803.6	60°	6470.2	5632.9	2567.9	753.6	590.0	585.4	600.9	566.8	517.9	493.1
7095.9	62.5°	6605.9	5631.3	2186.5	617.2	549.7	551.3	569.1	535.8	486.1	462.9
7248.7	65°	6594.3	5493.3	1767.8	528.0	511.0	512.5	535.8	501.6	459.8	445.8
7171.9	67.5°	6360.9	5156.8	1356.1	469.9	468.3	475.3	502.4	478.4	443.5	441.9
6714.5	70°	5729.0	4458.2	976.9	423.3	424.1	434.2	469.9	463.7	435.0	438.1
5645.3	72.5°	4593.9	3399.1	655.9	374.5	375.3	391.5	438.8	452.0	426.4	467.5
4005.4	75°	3059.5	2119.8	421.8	322.5	323.3	344.3	411.7	429.5	403.2	466.0
2084.1	77.5°	1470.0	952.9	305.5	271.4	271.4	290.8	355.9	384.6	343.5	362.1
669.9	80°	507.8	358.2	240.4	218.6	214.0	227.2	300.1	333.4	296.2	272.9
218.6	82.5°	200.0	186.1	193.1	169.8	154.3	162.8	233.4	275.2	217.9	196.9
123.3	85°	114.8	121.0	136.5	112.4	89.2	100.0	171.4	197.7	164.4	145.0
40.3	87.5°	31.0	42.6	62.8	58.2	40.3	42.6	81.4	109.3	94.6	72.9
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>
1636.7
1678.6
1745.3
1825.9
1900.4
1926.7
1927.5
1893.4
1813.5
1700.3
1581.7
1473.1
1377.0
1256.8
1121.9
987.8
867.6
766.8
666.8
610.2
574.5
549.7
532.7
514.1
482.3
455.9
445.0
444.3
437.3
473.7
469.9
331.8
255.9
196.2
148.1
75.2
0.0

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