

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: P946812

Luminaire Tested: **GALN-SB2B-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-835-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10208 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

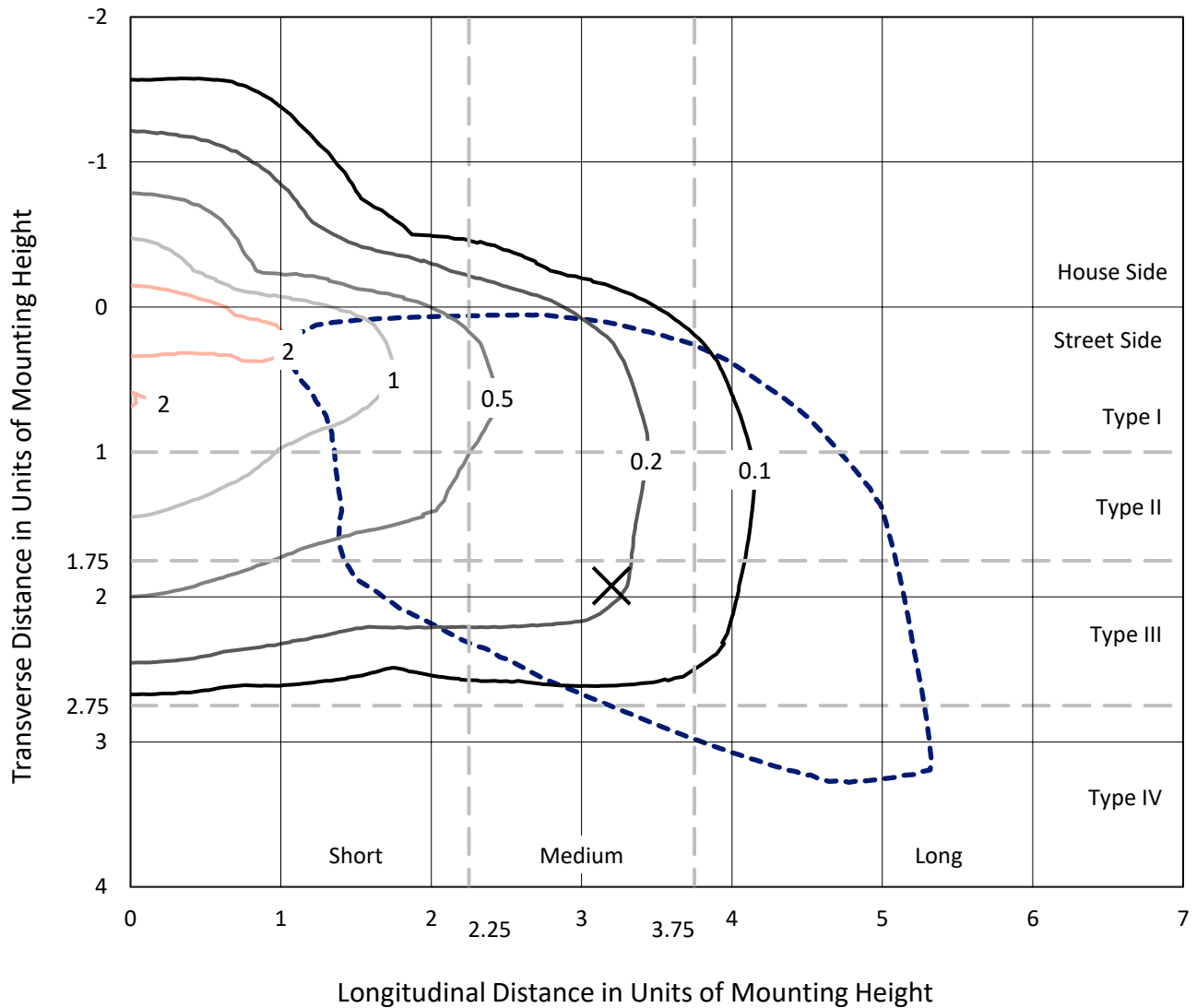
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

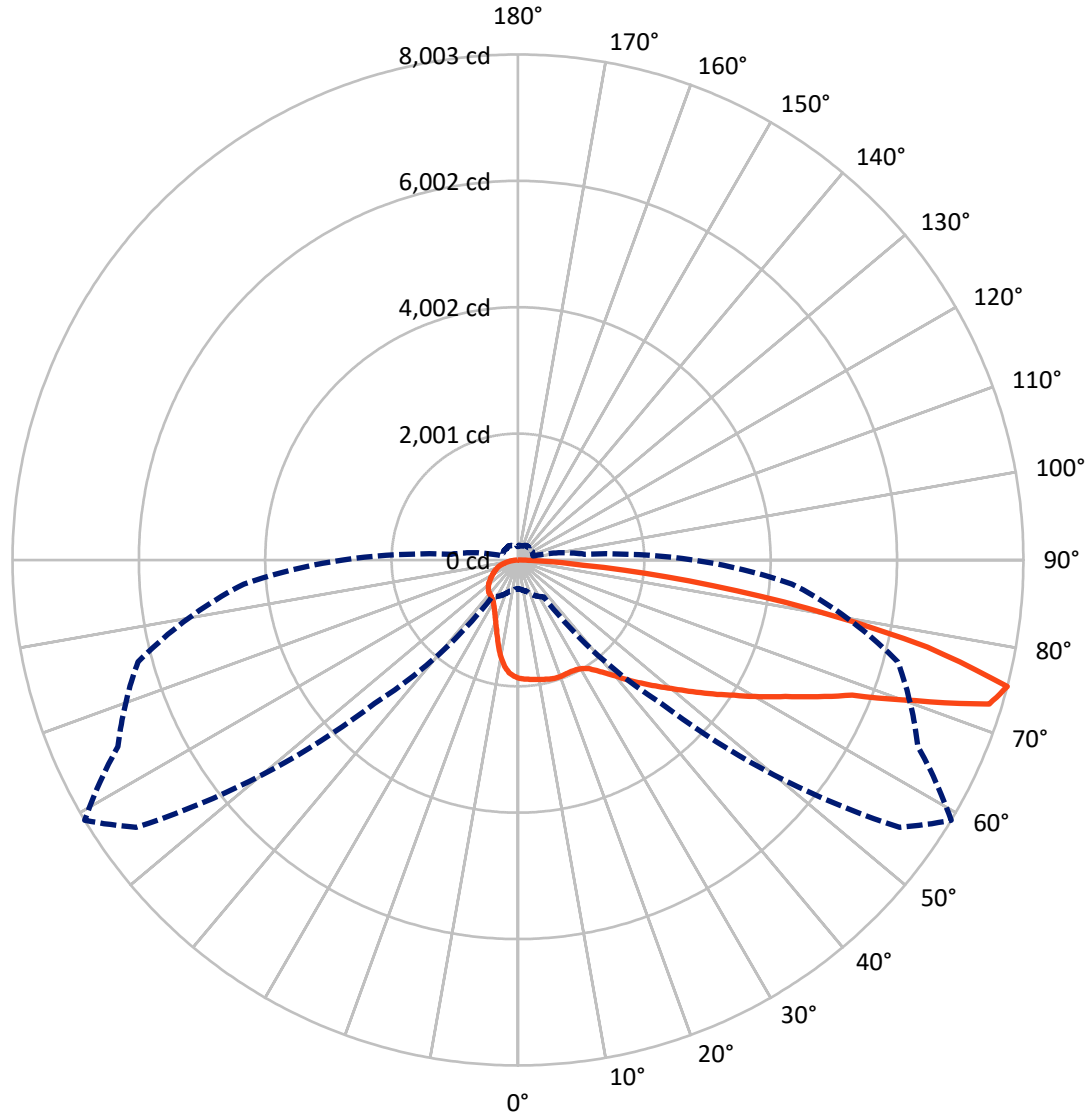
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1914.6	0.0	1914.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8293.4	0.0	8293.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	10208.0	0.0	10208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	1.6
10°-20°	429.4	4.2
20°-30°	652.3	6.4
30°-40°	969.6	9.5
40°-50°	1441.9	14.1
50°-60°	1957.2	19.2
60°-70°	2389.5	23.4
70°-80°	1875.2	18.4
80°-90°	324.8	3.2
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°	10208.0	100.0
0°-180°	10208.0	100.0

Coefficient of Utilization



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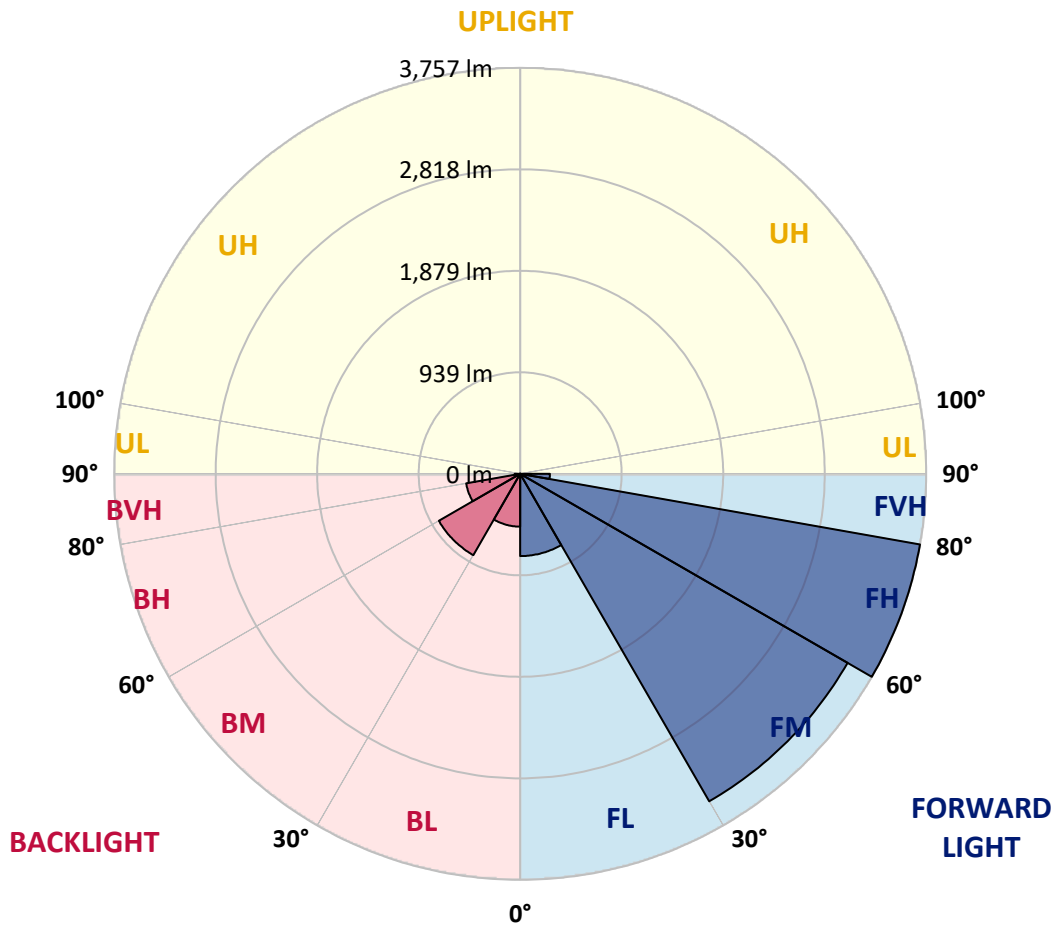
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.1	7.5			
FM	(30°-60°)	3499.7	34.3			
FH	(60°-80°)	3757.5	36.8			G2/5000
FVH	(80°-90°)	275.1	2.7			G3/500
BL	(0°-30°)	488.6	4.8	B1/500		
BM	(30°-60°)	869.0	8.5	B1/1000		
BH	(60°-80°)	507.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.7	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7
2.5°	1889.6	1883.0	1889.6	1886.8	1885.7	1883.5	1884.1	1887.9	1885.7	1888.5
5°	1877.0	1873.1	1879.7	1878.0	1885.2	1886.3	1893.4	1897.8	1900.6	1901.1
7.5°	1856.1	1852.2	1861.6	1869.3	1884.6	1889.0	1903.9	1911.0	1914.8	1921.4
10°	1779.8	1778.1	1801.2	1830.3	1866.5	1889.0	1911.5	1923.6	1929.7	1947.2
12.5°	1644.7	1646.9	1677.1	1733.1	1805.6	1878.0	1920.3	1937.9	1947.2	1969.2
15°	1515.6	1515.1	1548.0	1607.9	1709.5	1829.7	1924.7	1954.9	1970.9	2003.3
17.5°	1440.9	1438.7	1461.8	1507.4	1601.8	1755.6	1913.7	1964.3	1998.3	2038.9
20°	1427.2	1422.8	1434.9	1457.4	1524.4	1674.3	1885.2	1964.3	2020.3	2073.0
22.5°	1477.2	1470.0	1465.1	1462.4	1492.0	1607.3	1852.8	1957.7	2052.7	2121.9
25°	1577.7	1566.7	1541.4	1516.7	1507.9	1577.1	1824.2	1956.0	2101.0	2187.8
27.5°	1740.2	1726.5	1675.4	1616.1	1562.8	1592.5	1811.6	1965.9	2154.3	2257.5
30°	1941.7	1926.9	1862.7	1771.5	1676.0	1649.6	1827.5	1995.0	2222.4	2350.3
32.5°	2122.4	2105.9	2051.0	1958.2	1829.2	1748.5	1878.0	2050.5	2329.4	2479.4
35°	2282.8	2263.5	2214.1	2128.5	2017.0	1887.4	1969.2	2148.8	2481.6	2689.1
37.5°	2439.8	2417.3	2363.5	2272.9	2194.9	2072.4	2095.0	2275.1	2683.6	2943.9
40°	2615.5	2583.1	2517.8	2428.3	2352.5	2289.4	2260.2	2429.9	2889.0	3228.4
42.5°	2785.8	2755.0	2677.0	2600.7	2505.7	2487.6	2451.9	2611.1	3113.6	3540.8
45°	2969.2	2932.4	2837.9	2741.3	2681.4	2619.4	2637.5	2792.4	3333.8	3859.3
47.5°	3141.1	3099.9	2988.4	2880.8	2847.8	2730.3	2807.7	2991.7	3562.8	4182.2
50°	3233.9	3193.2	3100.4	3003.2	2977.4	2867.0	2992.2	3210.8	3802.8	4504.0
52.5°	3311.3	3267.4	3146.0	3092.2	3084.5	3015.9	3219.6	3461.2	4042.7	4788.5
55°	3393.7	3344.8	3189.9	3141.6	3176.8	3182.8	3489.2	3745.1	4296.4	5065.8
57.5°	3488.7	3426.6	3232.2	3183.3	3266.8	3378.3	3798.9	4039.5	4545.8	5322.8
60°	3578.2	3515.6	3313.5	3249.8	3364.0	3605.1	4154.2	4395.8	4828.0	5551.8
62.5°	3595.7	3544.1	3378.3	3377.7	3495.8	3869.8	4574.9	4755.5	5074.6	5778.0
65°	3291.5	3259.1	3160.8	3372.8	3684.7	4250.9	5043.3	5215.7	5388.1	5975.7
67.5°	2505.2	2509.6	2502.4	2911.5	3532.0	4798.4	5721.5	5708.3	5775.3	6197.6
70°	1145.5	1171.3	1339.3	2009.8	2829.7	4861.5	6842.8	6672.0	6261.3	6484.8
72.5°	618.9	638.6	707.3	973.6	1701.2	4322.3	7680.8	7802.1	6907.6	6678.1
75°	454.1	465.1	512.9	618.9	714.4	3212.5	7380.4	8003.1	6988.3	6227.2
77.5°	339.9	344.9	383.8	490.4	365.7	1693.5	5897.2	6628.1	5982.3	5116.3
80°	246.6	252.1	281.2	367.9	256.4	619.4	4049.3	4652.3	4097.1	3261.3
82.5°	170.2	172.4	185.1	250.4	179.0	240.5	2297.6	2728.1	2287.2	1144.4
85°	102.7	105.4	110.9	146.1	101.6	114.2	991.7	1025.8	683.7	273.5
87.5°	42.3	45.0	49.4	61.5	40.1	31.8	163.6	205.4	127.9	80.2
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°
1873.7	0°	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7	1873.7
1879.1	2.5°	1876.4	1872.6	1862.1	1847.8	1834.7	1818.2	1811.1	1805.0	1799.5	1789.1
1894.0	5°	1887.9	1877.5	1849.5	1813.3	1772.1	1727.0	1683.1	1652.9	1627.1	1607.9
1911.0	7.5°	1905.5	1885.7	1834.7	1760.5	1666.1	1569.4	1482.1	1420.1	1373.4	1356.4
1935.2	10°	1923.6	1900.0	1811.1	1680.4	1517.3	1368.4	1252.6	1188.9	1151.5	1139.5
1963.7	12.5°	1945.0	1910.4	1774.3	1568.9	1350.9	1187.8	1086.7	1049.4	1030.2	1023.6
1998.9	15°	1976.3	1919.2	1718.8	1429.4	1192.2	1056.0	990.6	964.8	954.9	954.4
2035.1	17.5°	2000.0	1920.9	1632.6	1280.0	1070.3	976.4	922.6	912.7	919.3	929.1
2070.8	20°	2026.3	1906.1	1519.5	1143.9	984.6	906.6	884.1	890.7	906.6	920.9
2118.0	22.5°	2045.0	1879.1	1382.7	1037.9	910.5	866.5	865.4	879.2	888.0	895.1
2173.5	25°	2061.5	1833.6	1237.8	948.9	849.5	842.4	854.5	850.1	844.0	850.1
2228.9	27.5°	2073.5	1761.6	1108.2	870.9	806.7	825.9	818.8	808.9	808.3	811.6
2294.3	30°	2069.7	1665.5	1001.6	796.8	776.5	795.2	778.1	776.5	774.8	776.5
2392.6	32.5°	2069.7	1556.3	919.8	745.7	757.3	750.1	748.5	744.6	738.0	737.5
2526.0	35°	2081.2	1447.0	849.5	718.3	741.3	724.3	725.4	716.1	702.3	695.8
2702.9	37.5°	2104.8	1359.1	779.8	705.1	713.3	712.8	708.4	692.5	668.3	647.4
2923.6	40°	2162.0	1333.3	732.0	699.1	700.1	706.7	695.2	664.5	609.5	575.5
3147.7	42.5°	2251.5	1376.7	721.6	684.2	691.4	698.0	675.4	604.1	565.1	544.7
3382.7	45°	2365.1	1452.5	744.1	662.8	670.5	682.0	615.0	581.0	563.4	564.0
3615.5	47.5°	2509.0	1532.1	785.8	644.1	640.3	646.9	574.9	554.1	529.9	536.0
3839.0	50°	2675.4	1612.8	825.4	618.9	606.8	585.4	549.1	529.4	498.6	484.3
4054.8	52.5°	2855.5	1690.8	841.3	588.1	570.6	545.8	531.6	507.4	470.1	446.4
4258.6	55°	3026.3	1761.6	823.7	551.3	534.3	515.1	512.9	498.1	458.0	425.0
4439.8	57.5°	3187.7	1820.9	779.8	514.0	497.5	486.0	500.8	493.7	443.2	400.9
4611.1	60°	3324.5	1861.6	716.1	476.1	464.6	458.5	481.0	478.8	422.3	375.1
4764.9	62.5°	3433.2	1877.5	645.8	439.9	437.1	426.1	453.6	453.6	395.9	349.8
4899.9	65°	3518.3	1862.1	574.4	404.2	409.7	393.2	420.1	416.8	367.9	327.3
5055.4	67.5°	3593.6	1811.6	495.3	369.0	381.7	360.8	384.9	377.3	337.2	304.8
5189.9	70°	3627.1	1694.1	405.3	333.9	349.3	328.9	349.8	335.5	302.6	280.6
5042.2	72.5°	3358.0	1408.0	319.0	297.1	310.3	293.8	311.9	295.4	265.2	255.3
4354.1	75°	2778.1	1056.5	245.5	257.0	266.9	254.3	266.3	254.3	226.8	233.9
3216.3	77.5°	2017.5	713.3	187.8	214.7	219.1	212.5	222.9	209.2	184.5	182.9
1602.9	80°	1003.3	417.9	147.2	169.7	168.0	163.6	175.7	169.1	148.3	157.1
432.7	82.5°	290.5	179.0	107.1	119.2	115.9	117.0	125.8	129.0	193.3	191.6
134.5	85°	91.2	70.3	64.2	66.4	63.2	64.8	74.1	147.2	136.2	79.6
41.7	87.5°	23.6	24.2	15.9	17.0	17.6	20.9	23.6	89.5	42.8	28.0
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>
1873.7
1784.1
1591.9
1326.7
1120.8
1025.2
956.6
933.0
925.8
898.9
853.9
817.1
782.5
744.6
702.3
654.6
579.9
544.7
566.7
551.3
488.2
445.9
425.0
398.7
373.4
348.2
325.1
302.6
276.2
247.1
213.6
174.6
155.4
196.0
86.2
29.7
0.0

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