

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: P940996

Luminaire Tested: **GALN-SB4B-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15391 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

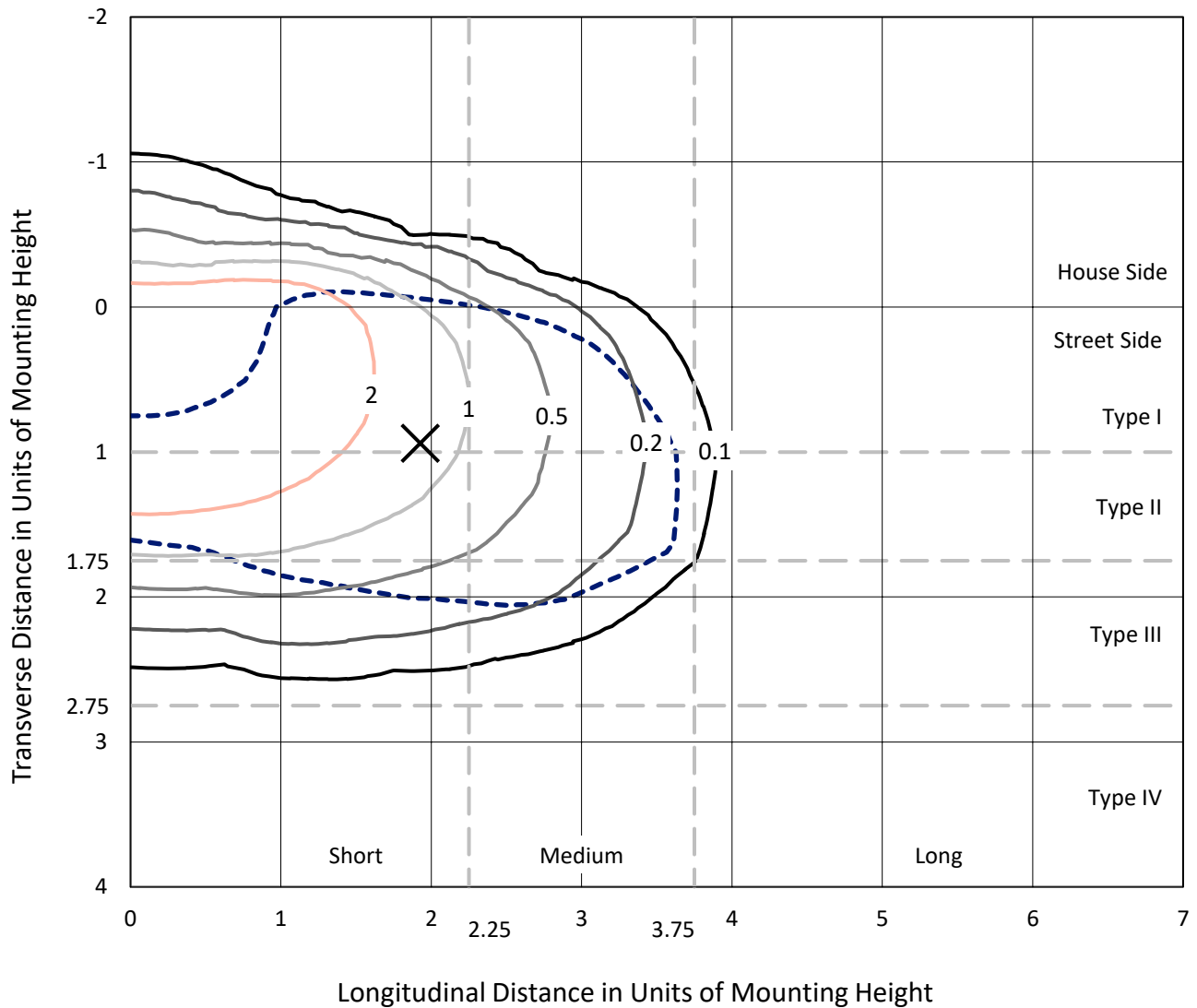
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

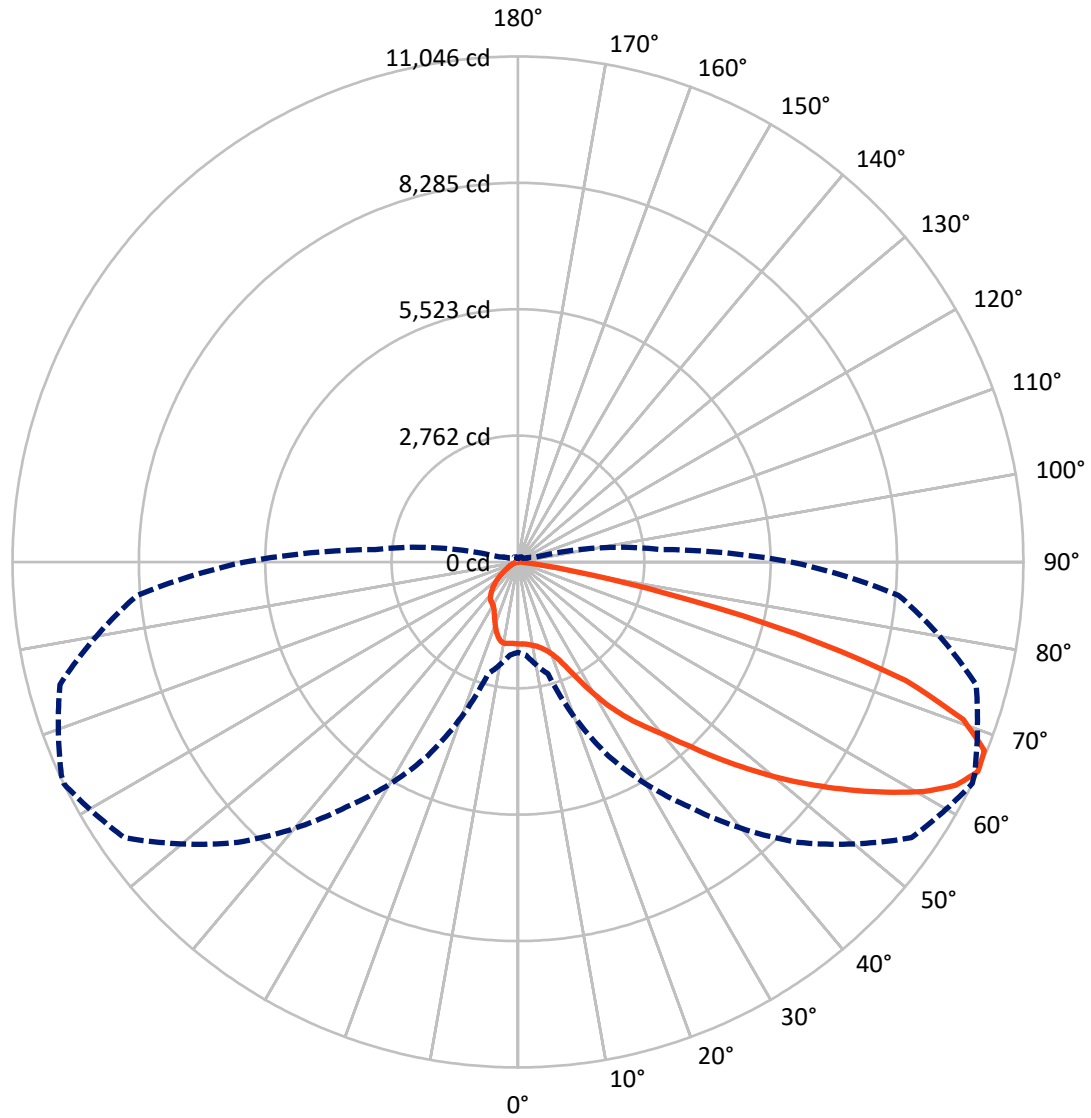
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.2	0.0	2058.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13332.8	0.0	13332.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	15391.0	0.0	15391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.1
10°-20°	448.0	2.9
20°-30°	848.8	5.5
30°-40°	1717.6	11.2
40°-50°	2926.0	19.0
50°-60°	3979.2	25.9
60°-70°	3736.6	24.3
70°-80°	1497.1	9.7
80°-90°	72.5	0.5
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°	15391.0	100.0
0°-180°	15391.0	100.0

Coefficient of Utilization



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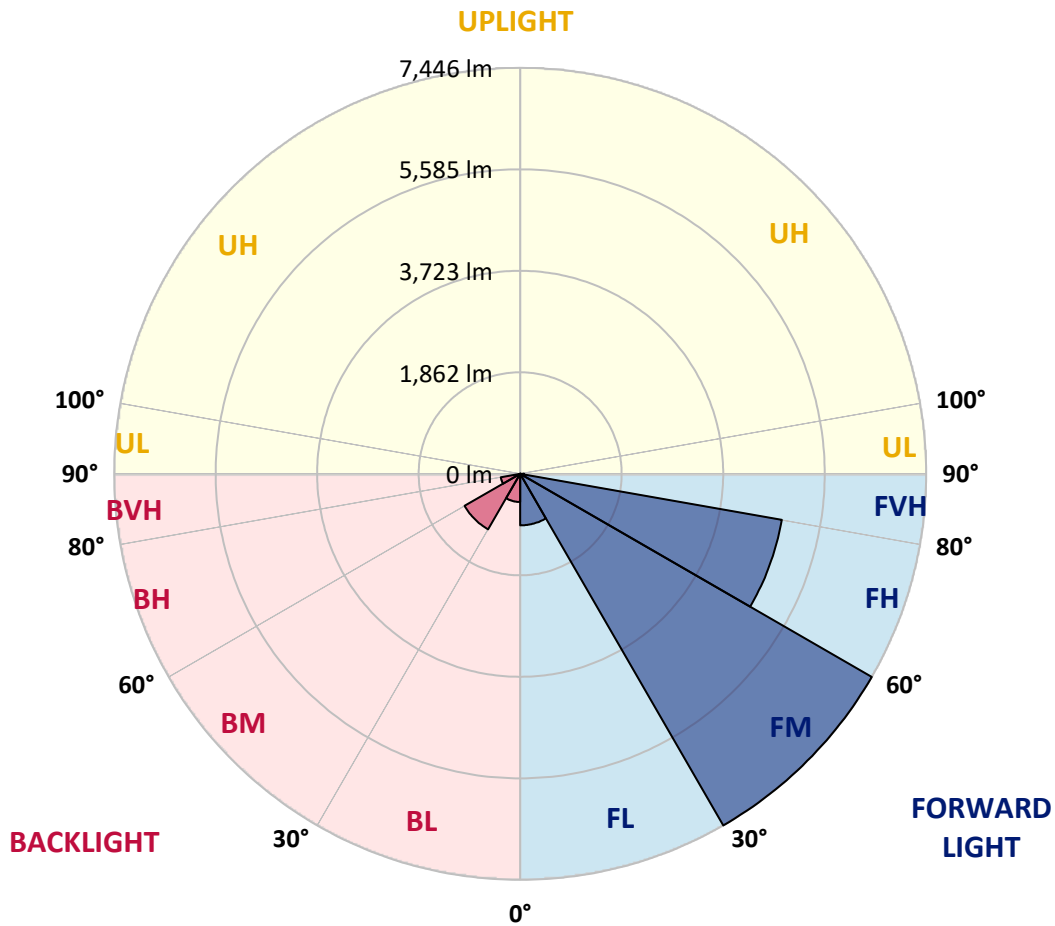
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.2	6.1			
FM (30°-60°)	7446.1	48.4			
FH (60°-80°)	4872.4	31.7			G2/5000
FVH (80°-90°)	69.0	0.4			G1/100
BL (0°-30°)	516.8	3.4	B2/1000		
BM (30°-60°)	1176.7	7.6	B2/2500		
BH (60°-80°)	361.3	2.3	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
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°	64°	65°	75°
0°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
2.5°	1783.9	1796.3	1793.2	1790.1	1789.1	1791.2	1792.2	1791.2	1791.2	1791.2
5°	1749.9	1760.2	1760.2	1767.4	1777.8	1790.1	1799.4	1801.5	1803.5	1806.6
7.5°	1684.9	1693.1	1699.3	1723.1	1748.9	1781.9	1809.7	1824.2	1826.2	1837.6
10°	1640.5	1650.8	1661.2	1685.9	1723.1	1772.6	1820.1	1855.1	1860.3	1887.1
12.5°	1638.5	1648.8	1662.2	1689.0	1732.4	1785.0	1842.8	1893.3	1902.6	1941.8
15°	1660.1	1672.5	1684.9	1717.9	1764.3	1828.3	1890.2	1953.2	1962.4	2018.2
17.5°	1704.5	1721.0	1730.3	1763.3	1812.8	1884.0	1965.5	2037.8	2046.0	2111.0
20°	1792.2	1811.8	1814.9	1841.7	1890.2	1966.6	2063.6	2153.3	2163.6	2237.9
22.5°	1973.8	2001.6	1976.9	1990.3	2033.6	2110.0	2215.2	2328.7	2343.2	2427.8
25°	2293.6	2332.8	2268.9	2246.2	2264.8	2344.2	2476.3	2619.7	2636.2	2704.3
27.5°	2922.0	2871.4	2774.4	2679.5	2623.8	2669.2	2817.8	2995.2	3015.9	3081.9
30°	3612.3	3567.9	3436.8	3226.4	3094.3	3087.1	3224.3	3422.4	3446.1	3509.1
32.5°	4303.5	4261.2	4118.9	3859.9	3630.8	3517.3	3612.3	3832.0	3844.4	3884.6
35°	4983.5	4940.1	4797.8	4532.6	4250.9	3993.0	3974.4	4222.0	4226.2	4268.5
37.5°	5667.6	5631.4	5479.8	5219.8	4942.2	4586.2	4413.9	4591.4	4596.6	4637.8
40°	6155.6	6171.1	6066.8	5865.7	5627.3	5238.3	4907.1	4984.5	4953.6	5022.7
42.5°	6574.5	6605.4	6514.6	6413.5	6275.3	5932.7	5517.9	5504.5	5455.0	5492.1
45°	6936.6	6962.4	6880.9	6857.2	6854.1	6613.7	6185.5	6105.0	6035.9	6028.7
47.5°	7069.7	7119.3	7154.3	7233.8	7388.6	7287.4	6875.8	6750.9	6673.5	6616.8
50°	7120.3	7172.9	7292.6	7523.7	7890.0	7933.3	7562.9	7422.6	7327.7	7224.5
52.5°	7052.2	7146.1	7307.0	7696.0	8227.4	8451.3	8222.2	8099.4	7991.1	7822.9
55°	6650.8	6744.7	7073.9	7694.0	8395.6	8814.5	8845.4	8790.7	8669.0	8403.8
57.5°	5804.8	5944.1	6465.1	7431.9	8392.5	9127.1	9456.2	9495.4	9359.2	8979.6
60°	4632.7	4821.5	5457.1	6851.0	8133.5	9296.3	9991.7	10187.8	10043.3	9547.0
62.5°	3232.6	3451.3	4052.8	5941.0	7541.3	9174.6	10382.8	10744.9	10635.6	10054.7
65°	1971.7	2041.9	2526.8	4675.0	6534.2	8664.9	10503.5	11046.2	11010.1	10365.2
67.5°	1313.5	1372.3	1511.6	3205.7	5072.2	7646.5	10214.6	10993.6	11003.9	10314.7
70°	791.4	841.9	932.7	1864.4	3287.2	6052.4	9320.0	10322.9	10382.8	9638.9
72.5°	326.0	360.1	442.6	845.0	1702.4	3841.3	7421.6	8863.0	9002.3	8104.6
75°	184.7	202.2	260.0	424.1	738.8	1790.1	4495.5	6291.8	6497.1	5586.0
77.5°	122.8	131.0	168.2	274.5	415.8	610.8	1921.2	3278.0	3670.0	3051.0
80°	82.5	89.8	115.6	183.7	270.3	262.1	611.8	1214.4	1494.0	1048.3
82.5°	55.7	56.7	82.5	120.7	171.3	126.9	180.6	377.6	474.6	303.3
85°	32.0	31.0	60.9	70.2	76.4	52.6	54.7	113.5	148.6	127.9
87.5°	4.1	6.2	23.7	18.6	10.3	11.3	11.3	19.6	28.9	31.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1790.1	0°	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1	1790.1
1792.2	2.5°	1792.2	1791.2	1788.1	1785.0	1777.8	1773.6	1775.7	1773.6	1772.6	1773.6
1805.6	5°	1805.6	1802.5	1794.3	1783.9	1769.5	1752.0	1740.6	1724.1	1708.6	1699.3
1841.7	7.5°	1841.7	1838.6	1827.3	1798.4	1752.0	1678.7	1611.6	1552.8	1508.5	1482.7
1899.5	10°	1899.5	1894.3	1876.8	1812.8	1691.1	1531.2	1398.1	1287.7	1215.4	1181.4
1967.6	12.5°	1967.6	1961.4	1930.5	1799.4	1575.5	1325.8	1142.2	1019.4	952.3	922.4
2046.0	15°	2048.1	2039.8	1978.9	1735.4	1407.3	1098.8	930.7	838.8	795.5	768.7
2146.1	17.5°	2148.2	2133.7	2015.1	1639.5	1224.7	925.5	800.7	731.5	693.4	667.6
2277.1	20°	2278.2	2254.4	2044.0	1525.0	1056.5	816.1	713.0	655.2	626.3	603.6
2462.9	22.5°	2459.8	2425.7	2079.0	1401.2	937.9	740.8	648.0	605.7	581.9	556.1
2721.8	25°	2684.7	2644.4	2122.4	1286.6	856.4	675.8	600.5	565.4	537.6	507.6
3061.3	27.5°	2999.4	2927.2	2174.0	1192.7	786.2	620.1	557.2	518.0	486.0	461.2
3446.1	30°	3350.2	3231.5	2219.4	1136.0	722.2	568.5	500.4	461.2	431.3	413.7
3791.8	32.5°	3682.4	3521.5	2249.3	1111.2	664.5	509.7	438.5	396.2	373.5	368.3
4130.2	35°	3996.1	3783.5	2246.2	1087.5	612.9	450.9	377.6	334.3	316.8	319.9
4494.4	37.5°	4357.2	4063.1	2224.5	1050.3	570.6	397.2	325.0	286.8	271.4	272.4
4937.1	40°	4777.1	4386.1	2211.1	980.2	524.1	347.7	281.7	250.7	239.4	235.2
5403.4	42.5°	5224.9	4698.7	2213.2	900.7	466.4	303.3	251.8	226.0	215.6	212.5
5922.4	45°	5674.8	4996.9	2216.3	818.2	405.5	269.3	230.1	208.4	202.2	198.1
6448.6	47.5°	6097.8	5250.7	2158.5	729.5	345.6	243.5	212.5	198.1	192.9	187.8
6976.9	50°	6491.9	5419.9	2019.2	626.3	298.2	222.9	199.1	188.8	183.7	178.5
7455.6	52.5°	6798.4	5446.8	1789.1	520.0	265.2	207.4	190.9	181.6	175.4	170.2
7842.5	55°	6934.6	5278.6	1462.0	421.0	239.4	194.0	182.6	173.3	166.1	161.0
8146.9	57.5°	6899.5	4924.7	1140.1	338.4	214.6	180.6	172.3	166.1	157.9	149.6
8393.5	60°	6727.2	4451.1	859.5	281.7	191.9	166.1	161.0	155.8	144.4	132.1
8488.4	62.5°	6429.0	3855.8	612.9	233.2	167.1	149.6	147.5	143.4	126.9	104.2
8348.1	65°	5973.0	3132.5	412.7	194.0	143.4	131.0	132.1	124.8	103.2	77.4
7834.3	67.5°	5306.4	2290.5	264.1	158.9	119.7	109.4	110.4	106.3	87.7	66.0
6860.3	70°	4457.3	1516.7	172.3	120.7	96.0	84.6	90.8	91.8	74.3	53.7
5265.2	72.5°	3267.6	895.6	120.7	89.8	70.2	58.8	74.3	76.4	59.8	40.2
3167.6	75°	1862.4	425.1	90.8	65.0	43.3	41.3	57.8	57.8	41.3	26.8
1371.2	77.5°	782.1	177.5	64.0	42.3	24.8	23.7	39.2	36.1	20.6	12.4
334.3	80°	226.0	79.4	34.0	20.6	10.3	9.3	15.5	11.3	5.2	2.1
126.9	82.5°	88.7	35.1	13.4	8.3	4.1	4.1	2.1	0.0	0.0	0.0
72.2	85°	52.6	14.4	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
15.5	87.5°	13.4	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1790.1
1777.8
1701.4
1483.7
1178.3
919.3
769.7
665.5
599.5
552.0
504.5
456.0
410.6
371.4
319.9
276.5
234.2
211.5
198.1
187.8
178.5
169.2
159.9
148.6
130.0
102.1
75.3
62.9
51.6
38.2
24.8
12.4
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