

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: P940498

Luminaire Tested: **GALN-SB3C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15287 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

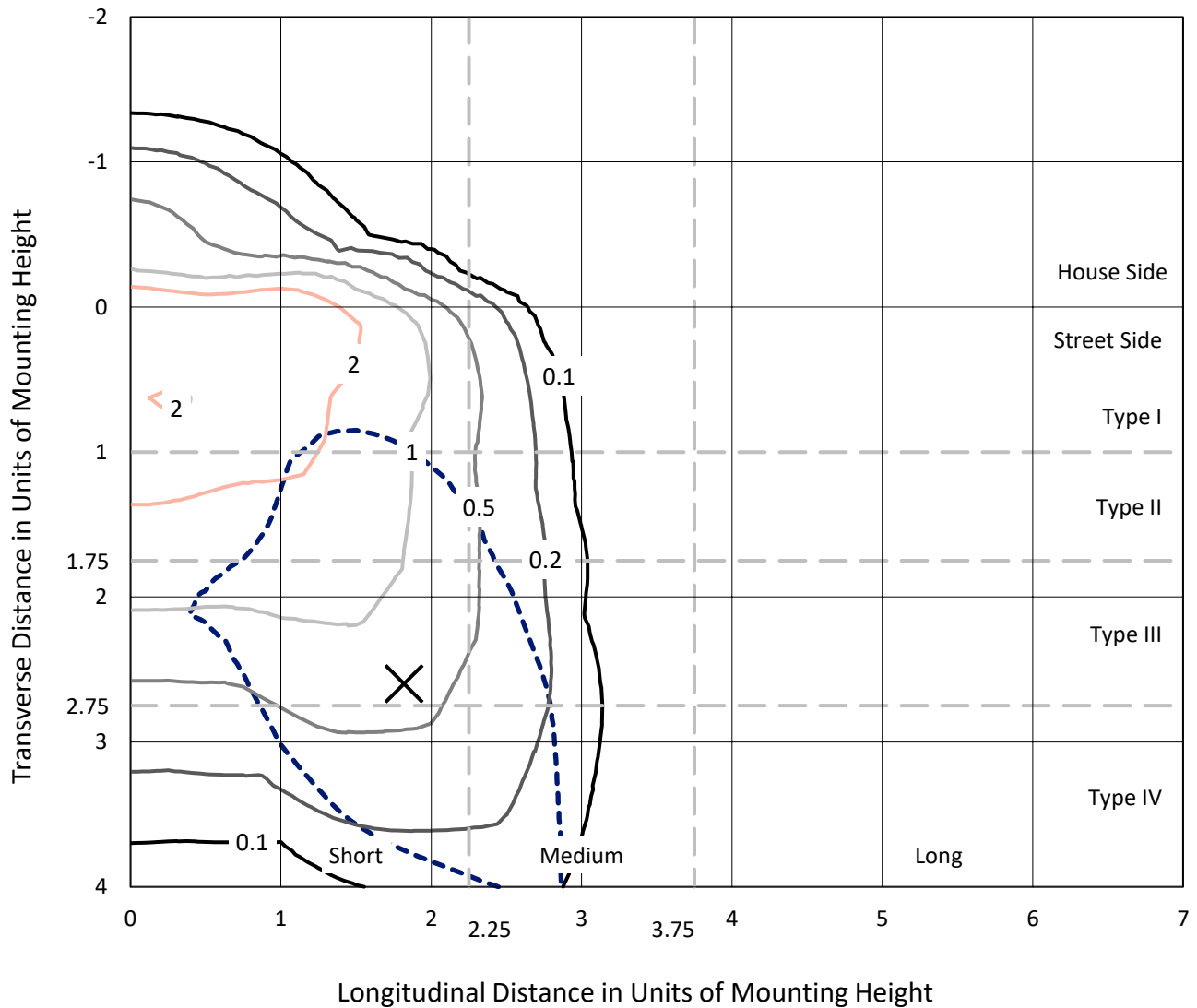
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

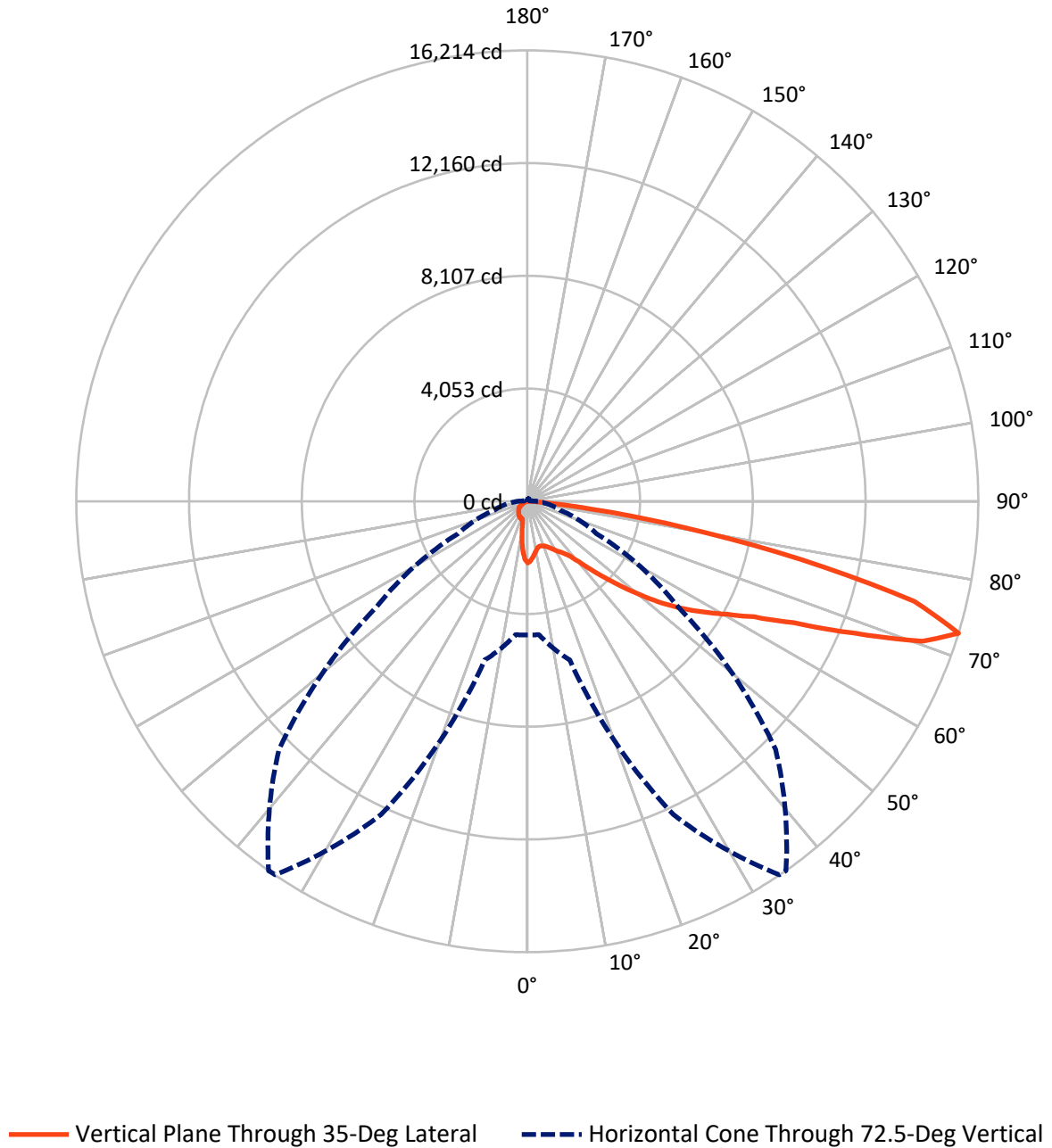
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1720.5	0.0	1720.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13566.5	0.0	13566.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	15287.0	0.0	15287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	1.2
10°-20°	425.9	2.8
20°-30°	691.9	4.5
30°-40°	1154.4	7.6
40°-50°	2184.2	14.3
50°-60°	3470.6	22.7
60°-70°	4293.4	28.1
70°-80°	2668.8	17.5
80°-90°	215.7	1.4
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°	15287.0	100.0
0°-180°	15287.0	100.0

Coefficient of Utilization



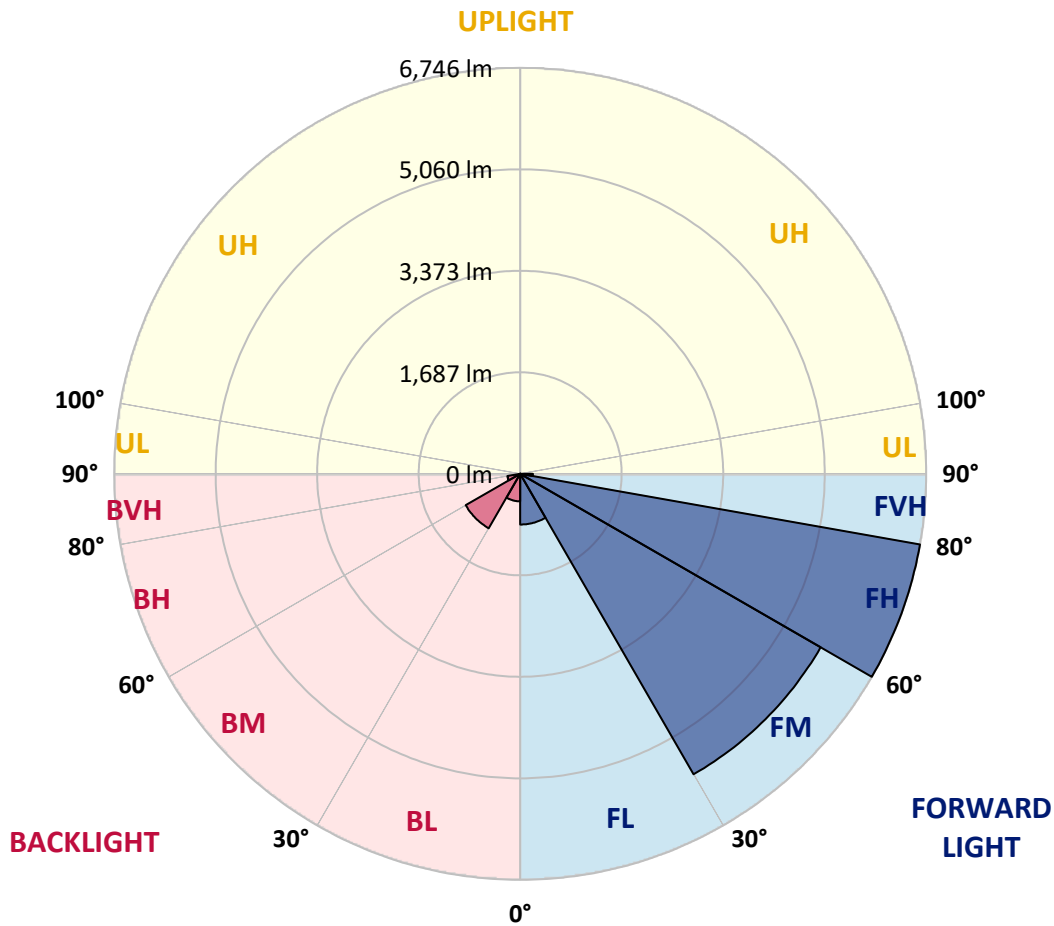
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.7	5.5			
FM (30°-60°)	5764.7	37.7			
FH (60°-80°)	6746.3	44.1			G3/7500
FVH (80°-90°)	212.7	1.4			G2/225
BL (0°-30°)	457.2	3.0	B1/500		
BM (30°-60°)	1044.5	6.8	B2/2500		
BH (60°-80°)	215.9	1.4	B1/500		G1/500
BVH (80°-90°)	2.9	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6
2.5°	2117.0	2135.0	2138.3	2143.9	2143.9	2150.6	2161.8	2177.5	2203.3	2216.7
5°	1951.3	1964.7	1981.5	1994.9	2020.7	2024.1	2067.7	2110.3	2169.7	2214.5
7.5°	1784.4	1800.0	1822.4	1854.9	1888.5	1898.6	1964.7	2036.4	2130.5	2214.5
10°	1666.7	1667.9	1688.0	1720.5	1774.3	1786.6	1867.2	1969.2	2086.8	2201.0
12.5°	1600.7	1608.5	1617.5	1642.1	1693.6	1701.5	1787.7	1907.6	2043.1	2193.2
15°	1600.7	1606.3	1611.9	1624.2	1665.6	1672.3	1748.5	1868.4	2020.7	2196.6
17.5°	1617.5	1626.4	1621.9	1636.5	1680.2	1684.7	1751.9	1857.2	2019.6	2217.8
20°	1657.8	1664.5	1655.5	1664.5	1708.2	1717.1	1786.6	1878.4	2038.6	2254.8
22.5°	1721.6	1725.0	1703.7	1710.4	1755.2	1766.4	1847.1	1938.9	2084.5	2314.2
25°	1802.3	1809.0	1776.5	1784.4	1826.9	1840.4	1933.3	2029.7	2157.4	2395.9
27.5°	1895.2	1898.6	1870.6	1869.5	1924.4	1943.4	2037.5	2141.7	2254.8	2499.0
30°	2001.7	2011.7	1984.9	1980.4	2049.8	2065.5	2158.5	2279.4	2398.2	2653.6
32.5°	2085.7	2093.5	2077.8	2089.0	2159.6	2171.9	2305.2	2474.3	2623.3	2873.1
35°	2206.6	2211.1	2175.3	2195.4	2276.1	2307.4	2505.7	2747.7	2906.7	3148.7
37.5°	2644.6	2644.6	2492.3	2392.6	2469.9	2497.9	2780.1	3091.5	3256.2	3518.3
40°	3250.6	3240.5	3017.6	2813.7	2803.7	2858.5	3171.1	3525.0	3707.6	3961.9
42.5°	3896.9	3881.2	3577.7	3376.0	3342.4	3361.5	3622.5	4059.3	4245.3	4502.9
45°	4470.4	4465.9	4188.1	3917.1	3856.6	3917.1	4185.9	4684.3	4817.6	5088.7
47.5°	4950.9	4950.9	4748.2	4571.2	4539.8	4575.7	4948.7	5377.7	5365.4	5712.6
50°	5504.3	5499.8	5307.1	5231.0	5263.4	5313.9	5826.9	6108.0	5932.2	6325.3
52.5°	5891.8	5918.7	5852.6	5840.3	6006.1	6093.5	6718.5	6822.7	6439.6	6906.7
55°	6198.7	6230.1	6306.3	6392.5	6711.8	6826.0	7582.1	7500.3	6864.1	7410.7
57.5°	6633.4	6588.6	6706.2	6876.4	7392.8	7530.6	8418.8	8139.9	7205.7	7819.6
60°	7160.9	7167.7	7187.8	7402.9	8072.7	8249.7	9243.2	8744.8	7425.3	8070.5
62.5°	7794.9	7805.0	7846.4	8176.9	8985.6	9152.5	10121.4	9239.9	7526.1	7999.9
65°	7751.2	7793.8	8256.4	9386.6	10373.4	10538.1	11146.3	9587.1	7373.8	7354.7
67.5°	7061.2	7130.7	7904.7	10831.6	12465.8	12649.5	12385.2	9655.4	6716.2	5719.3
70°	6156.2	6180.8	7111.6	12130.9	14888.6	15074.6	13494.1	8903.8	5096.5	3190.1
72.5°	4807.6	4813.2	5905.3	12432.2	16203.7	16213.7	12623.8	6609.8	2740.9	1225.4
75°	3434.3	3400.7	3955.1	10082.2	14255.8	14370.0	9463.9	3100.5	1047.3	579.1
77.5°	1841.5	1878.4	2238.0	5979.2	9848.1	10043.0	5163.8	893.9	533.2	394.3
80°	569.0	600.4	917.4	2737.6	5578.2	5695.8	1914.3	397.6	371.9	281.2
82.5°	179.2	185.9	427.9	1150.4	2315.3	2369.1	554.5	225.1	254.3	185.9
85°	51.5	52.6	190.4	429.0	572.4	583.6	155.7	87.4	145.6	115.4
87.5°	5.6	17.9	71.7	71.7	50.4	49.3	16.8	19.0	41.4	14.6
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°
2215.6	0°	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6	2215.6
2225.7	2.5°	2220.1	2221.2	2206.6	2182.0	2155.1	2132.7	2104.7	2082.3	2066.6	2062.1
2245.8	5°	2235.8	2227.9	2186.5	2111.4	2021.8	1944.5	1858.3	1790.0	1745.1	1726.1
2267.1	7.5°	2259.3	2236.9	2146.2	1998.3	1826.9	1674.6	1520.0	1400.2	1324.0	1285.9
2287.3	10°	2279.4	2234.6	2078.9	1834.8	1572.6	1341.9	1133.6	989.1	908.4	870.3
2310.8	12.5°	2298.5	2233.5	1991.6	1641.0	1285.9	1003.6	809.8	738.2	715.8	707.9
2348.9	15°	2334.3	2236.9	1881.8	1419.2	1000.3	758.3	687.8	686.6	691.1	688.9
2407.1	17.5°	2383.6	2240.2	1757.5	1184.0	771.8	668.7	665.4	675.4	682.2	678.8
2479.9	20°	2447.5	2253.7	1625.3	951.0	663.1	646.3	654.2	663.1	668.7	663.1
2577.4	22.5°	2537.1	2277.2	1480.8	763.9	628.4	632.9	639.6	649.7	655.3	647.4
2701.7	25°	2646.8	2314.2	1338.5	664.2	611.6	617.2	627.3	638.5	645.2	637.3
2858.5	27.5°	2789.1	2373.5	1207.5	641.8	594.8	598.1	612.7	629.5	638.5	628.4
3081.5	30°	2995.2	2471.0	1094.4	651.9	584.7	576.9	597.0	620.5	630.6	621.7
3385.0	32.5°	3268.5	2608.8	1024.9	667.6	580.2	552.2	571.3	601.5	618.3	612.7
3781.5	35°	3627.0	2818.2	998.0	685.5	576.9	526.5	539.9	572.4	601.5	607.1
4281.1	37.5°	4061.6	3109.5	1005.9	693.4	566.8	505.2	511.9	539.9	578.0	595.9
4843.4	40°	4555.5	3448.9	1050.7	685.5	555.6	487.3	488.4	509.7	543.3	570.1
5448.3	42.5°	5065.2	3845.4	1133.6	656.4	545.5	471.6	468.2	482.8	505.2	524.2
6052.0	45°	5550.2	4253.1	1215.3	616.1	533.2	455.9	448.0	453.6	458.1	466.0
6640.1	47.5°	5973.6	4539.8	1191.8	579.1	516.4	438.0	424.5	422.3	408.8	407.7
7165.4	50°	6266.0	4602.6	1058.5	542.1	491.7	417.8	396.5	383.1	359.6	348.4
7558.6	52.5°	6358.9	4355.0	864.7	505.2	451.4	390.9	360.7	339.4	310.3	300.2
7784.8	55°	6235.7	3870.0	691.1	460.4	395.4	355.1	321.5	293.5	269.9	257.6
7809.5	57.5°	5934.4	3252.8	546.6	407.7	336.0	314.8	281.2	253.1	233.0	220.7
7536.2	60°	5434.8	2583.0	432.4	345.0	286.8	271.1	236.3	218.4	200.5	185.9
6830.5	62.5°	4676.5	1843.7	339.4	273.3	239.7	221.8	201.6	188.2	166.9	146.7
5561.4	65°	3649.4	1128.0	262.1	200.5	192.7	183.7	171.4	159.1	133.3	113.1
3628.1	67.5°	2301.8	534.3	187.1	151.2	152.3	147.9	142.3	132.2	113.1	95.2
1625.3	70°	1013.7	258.7	123.2	115.4	113.1	113.1	117.6	114.3	96.3	79.5
564.5	72.5°	345.0	138.9	91.8	87.4	81.8	80.6	98.6	95.2	77.3	61.6
281.2	75°	180.3	93.0	67.2	62.7	49.3	59.4	78.4	73.9	54.9	40.3
185.9	77.5°	117.6	66.1	45.9	40.3	28.0	39.2	58.2	51.5	32.5	20.2
122.1	80°	73.9	43.7	26.9	19.0	13.4	21.3	31.4	22.4	12.3	4.5
71.7	82.5°	39.2	22.4	10.1	6.7	5.6	6.7	7.8	5.6	2.2	0.0
37.0	85°	15.7	7.8	3.4	2.2	1.1	0.0	2.2	1.1	0.0	0.0
6.7	87.5°	5.6	1.1	0.0	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>
2215.6
2070.0
1732.8
1291.5
871.5
705.7
687.8
677.7
662.0
646.3
636.2
628.4
620.5
612.7
607.1
600.4
579.1
532.1
470.5
406.6
349.5
299.1
257.6
218.4
182.6
143.4
109.8
93.0
76.2
58.2
37.0
17.9
3.4
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