

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: P941018

Luminaire Tested: **GALN-SB4B-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941018
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-SB4B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 450mA 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: 15849 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

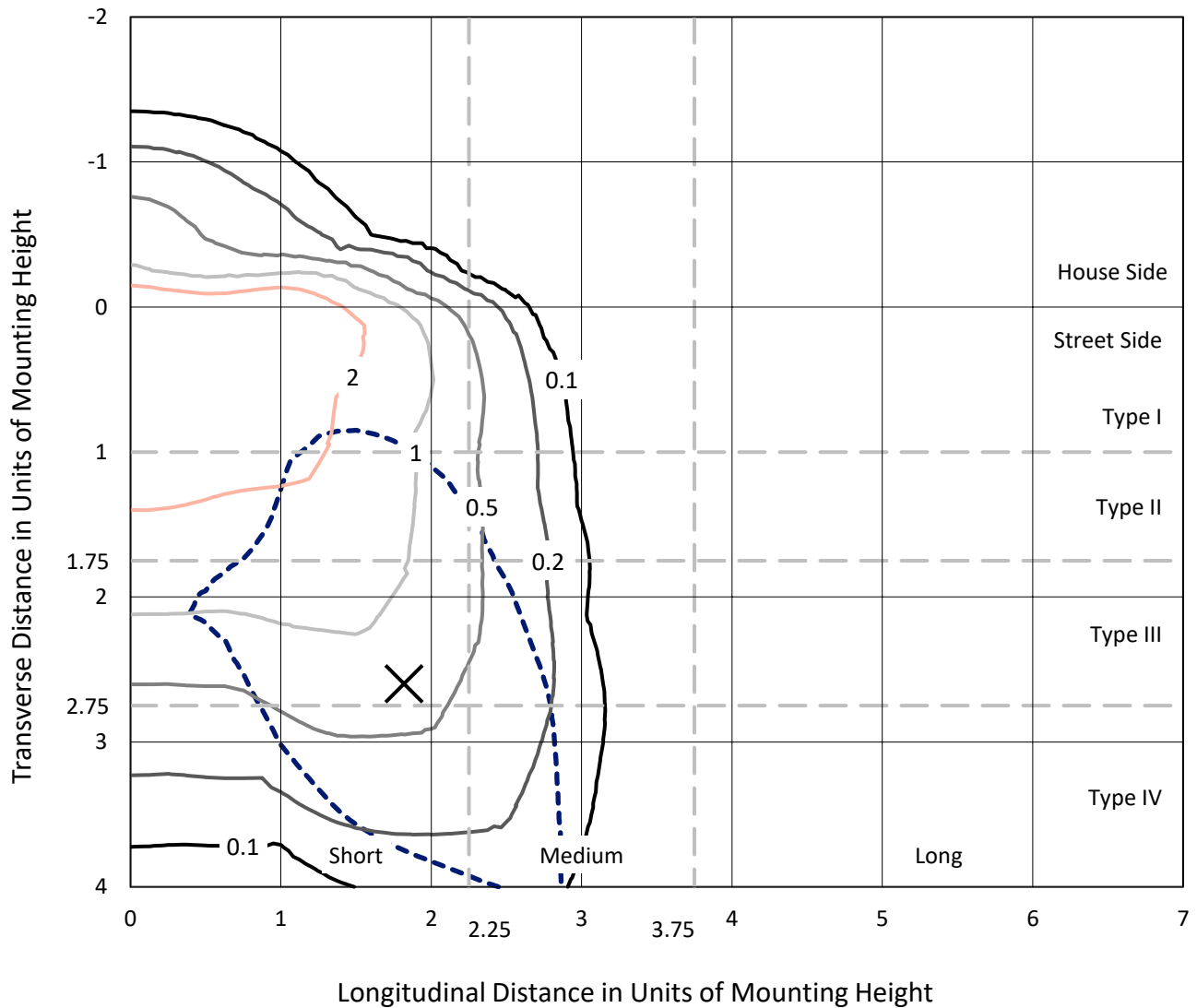
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

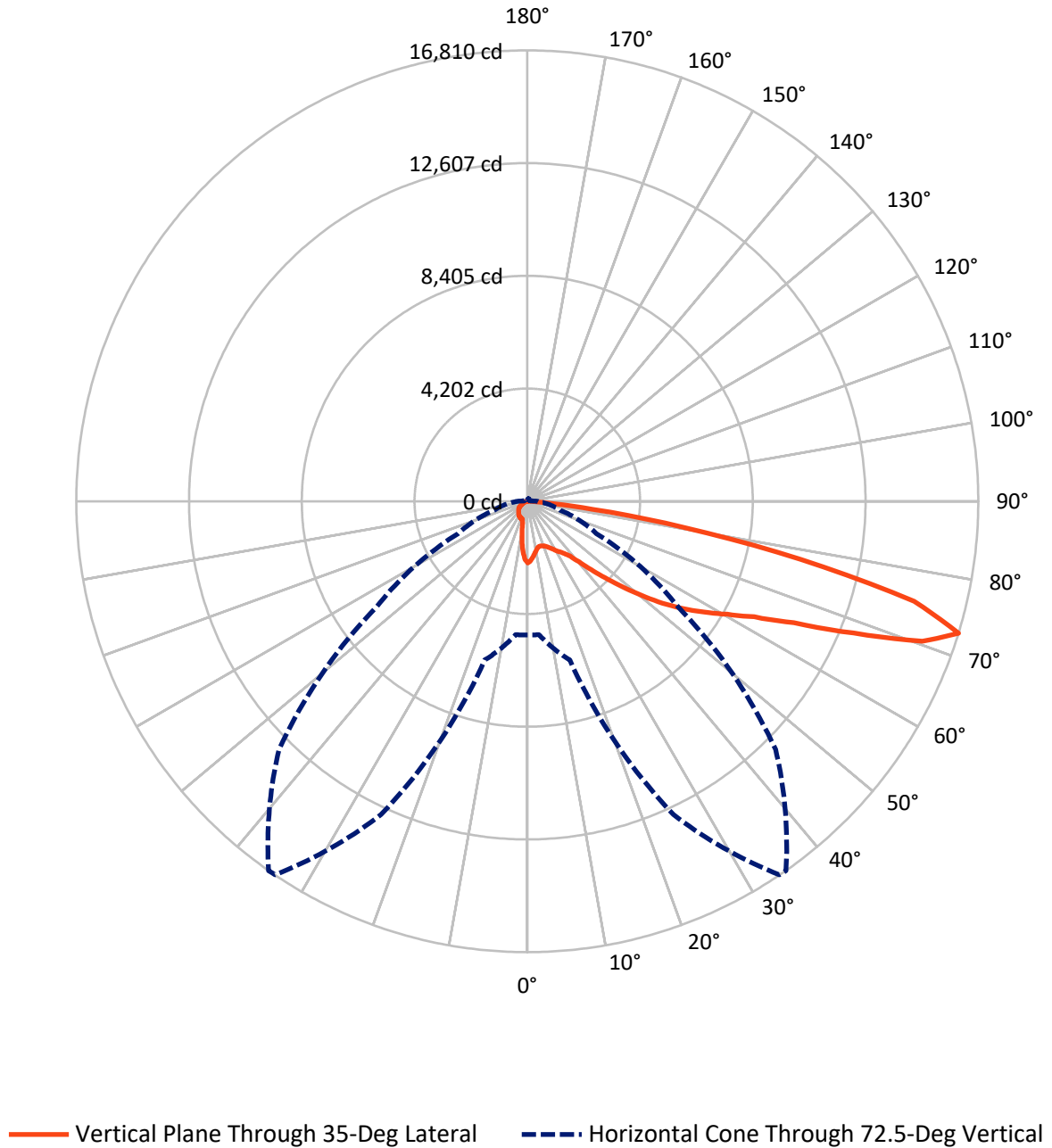
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1783.7	0.0	1783.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14065.3	0.0	14065.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	15849.0	0.0	15849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.2
10°-20°	441.6	2.8
20°-30°	717.3	4.5
30°-40°	1196.8	7.6
40°-50°	2264.5	14.3
50°-60°	3598.2	22.7
60°-70°	4451.3	28.1
70°-80°	2766.9	17.5
80°-90°	223.6	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°	15849.0	100.0
0°-180°	15849.0	100.0

Coefficient of Utilization



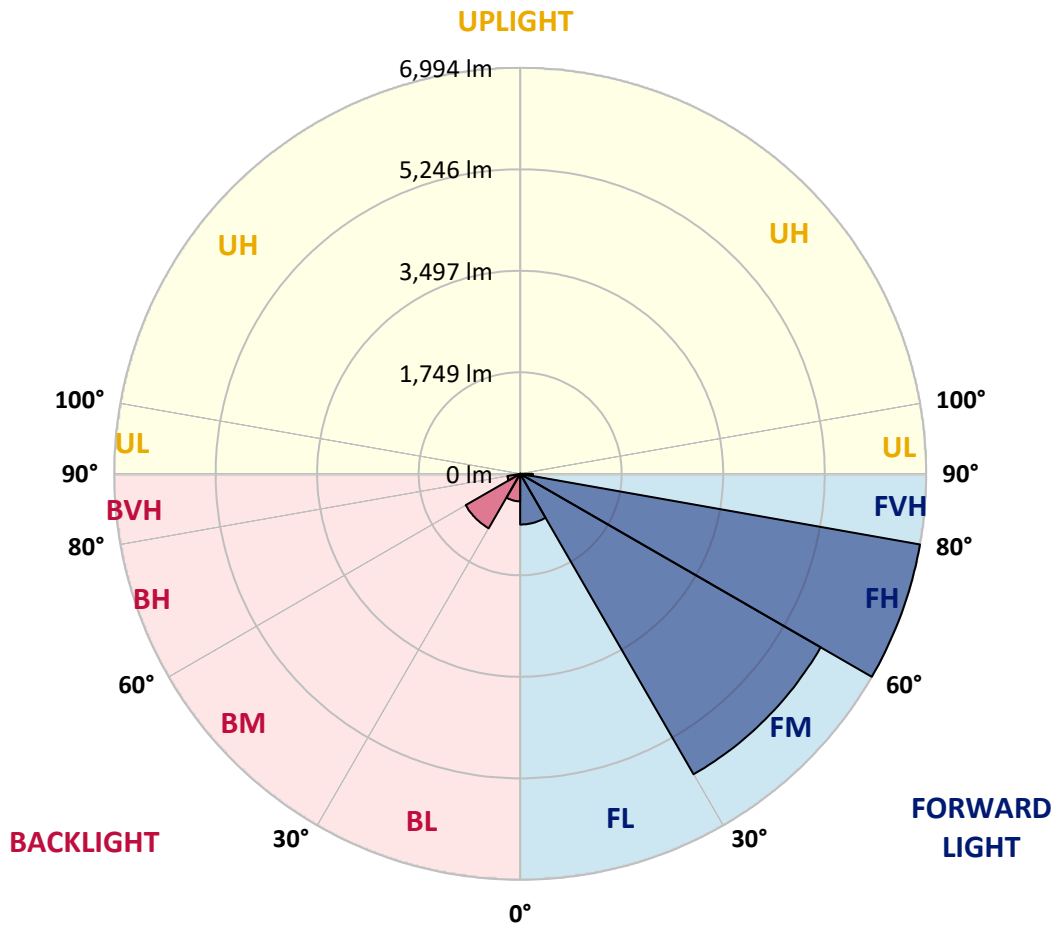
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.7	5.5			
FM (30°-60°)	5976.7	37.7			
FH (60°-80°)	6994.4	44.1			G3/7500
FVH (80°-90°)	220.6	1.4			G2/225
BL (0°-30°)	474.0	3.0	B1/500		
BM (30°-60°)	1082.9	6.8	B2/2500		
BH (60°-80°)	223.8	1.4	B1/500		G1/500
BVH (80°-90°)	3.0	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°	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1
2.5°	2194.9	2213.4	2216.9	2222.7	2222.7	2229.7	2241.3	2257.6	2284.3	2298.2
5°	2023.0	2036.9	2054.3	2068.3	2095.0	2098.5	2143.8	2187.9	2249.4	2295.9
7.5°	1850.0	1866.2	1889.4	1923.1	1958.0	1968.4	2036.9	2111.2	2208.8	2295.9
10°	1728.0	1729.2	1750.1	1783.8	1839.5	1852.3	1935.9	2041.6	2163.5	2282.0
12.5°	1659.5	1667.6	1676.9	1702.5	1755.9	1764.0	1853.4	1977.7	2118.2	2273.8
15°	1659.5	1665.3	1671.1	1683.9	1726.9	1733.8	1812.8	1937.0	2095.0	2277.3
17.5°	1676.9	1686.2	1681.6	1696.7	1742.0	1746.6	1816.3	1925.4	2093.8	2299.4
20°	1718.7	1725.7	1716.4	1725.7	1771.0	1780.3	1852.3	1947.5	2113.6	2337.7
22.5°	1784.9	1788.4	1766.3	1773.3	1819.8	1831.4	1915.0	2010.2	2161.2	2399.2
25°	1868.5	1875.5	1841.8	1850.0	1894.1	1908.0	2004.4	2104.3	2236.7	2484.0
27.5°	1964.9	1968.4	1939.4	1938.2	1995.1	2014.9	2112.4	2220.4	2337.7	2590.9
30°	2075.2	2085.7	2057.8	2053.2	2125.2	2141.4	2237.8	2363.2	2486.3	2751.1
32.5°	2162.3	2170.5	2154.2	2165.8	2239.0	2251.8	2390.0	2565.3	2719.8	2978.7
35°	2287.8	2292.4	2255.2	2276.1	2359.8	2392.3	2597.8	2848.7	3013.6	3264.4
37.5°	2741.8	2741.8	2583.9	2480.5	2560.7	2589.7	2882.3	3205.2	3375.9	3647.6
40°	3370.1	3359.6	3128.5	2917.2	2906.7	2963.6	3287.6	3654.6	3843.9	4107.5
42.5°	4040.2	4023.9	3709.2	3500.2	3465.3	3485.1	3755.6	4208.6	4401.3	4668.4
45°	4634.7	4630.1	4342.1	4061.1	3998.4	4061.1	4339.8	4856.6	4994.8	5275.8
47.5°	5132.9	5132.9	4922.8	4739.3	4706.7	4743.9	5130.6	5575.4	5562.6	5922.6
50°	5706.6	5702.0	5502.2	5423.3	5456.9	5509.2	6041.1	6332.6	6150.2	6557.9
52.5°	6108.4	6136.3	6067.8	6055.0	6226.9	6317.5	6965.5	7073.5	6676.3	7160.6
55°	6426.6	6459.2	6538.1	6627.5	6958.5	7077.0	7860.8	7776.1	7116.4	7683.2
57.5°	6877.2	6830.8	6952.7	7129.2	7664.6	7807.4	8728.3	8439.2	7470.6	8107.0
60°	7424.2	7431.2	7452.1	7675.0	8369.5	8553.0	9583.0	9066.3	7698.3	8367.2
62.5°	8081.5	8091.9	8134.9	8477.5	9315.9	9489.0	10493.5	9579.6	7802.8	8294.0
65°	8036.2	8080.3	8559.9	9731.7	10754.8	10925.5	11556.1	9939.6	7644.8	7625.1
67.5°	7320.8	7392.8	8195.3	11229.8	12924.1	13114.6	12840.5	10010.4	6963.2	5929.6
70°	6382.5	6408.1	7373.1	12576.9	15436.0	15628.8	13990.2	9231.2	5283.9	3307.4
72.5°	4984.3	4990.1	6122.4	12889.3	16799.4	16809.8	13087.9	6852.8	2841.7	1270.5
75°	3560.5	3525.7	4100.6	10452.9	14779.9	14898.3	9811.8	3214.5	1085.8	600.4
77.5°	1909.2	1947.5	2320.3	6199.0	10210.1	10412.2	5353.6	926.7	552.8	408.8
80°	589.9	622.5	951.1	2838.2	5783.3	5905.2	1984.7	412.3	385.6	291.5
82.5°	185.8	192.8	443.6	1192.7	2400.4	2456.1	574.8	233.4	263.6	192.8
85°	53.4	54.6	197.4	444.8	593.4	605.0	161.4	90.6	151.0	119.6
87.5°	5.8	18.6	74.3	74.3	52.3	51.1	17.4	19.7	43.0	15.1
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°
2297.1	0°	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1	2297.1
2307.5	2.5°	2301.7	2302.9	2287.8	2262.2	2234.3	2211.1	2182.1	2158.9	2142.6	2138.0
2328.4	5°	2318.0	2309.8	2266.9	2189.1	2096.1	2016.0	1926.6	1855.8	1809.3	1789.6
2350.5	7.5°	2342.3	2319.1	2225.1	2071.8	1894.1	1736.1	1575.9	1451.6	1372.7	1333.2
2371.4	10°	2363.2	2316.8	2155.4	1902.2	1630.5	1391.2	1175.2	1025.4	941.8	902.3
2395.8	12.5°	2383.0	2315.6	2064.8	1701.3	1333.2	1040.5	839.6	765.3	742.1	733.9
2435.2	15°	2420.1	2319.1	1951.0	1471.4	1037.0	786.2	713.0	711.9	716.5	714.2
2495.6	17.5°	2471.2	2322.6	1822.1	1227.5	800.1	693.3	689.8	700.3	707.2	703.7
2571.1	20°	2537.4	2336.5	1685.0	985.9	687.5	670.1	678.2	687.5	693.3	687.5
2672.2	22.5°	2630.3	2360.9	1535.2	792.0	651.5	656.1	663.1	673.6	679.4	671.2
2801.1	25°	2744.2	2399.2	1387.8	688.7	634.1	639.9	650.3	661.9	668.9	660.8
2963.6	27.5°	2891.6	2460.8	1251.9	665.4	616.7	620.1	635.2	652.7	661.9	651.5
3194.7	30°	3105.3	2561.8	1134.6	675.9	606.2	598.1	619.0	643.4	653.8	644.5
3509.4	32.5°	3388.7	2704.7	1062.6	692.1	601.6	572.5	592.3	623.6	641.0	635.2
3920.5	35°	3760.3	2921.8	1034.7	710.7	598.1	545.8	559.7	593.4	623.6	629.4
4438.5	37.5°	4210.9	3223.8	1042.8	718.8	587.6	523.7	530.7	559.7	599.2	617.8
5021.5	40°	4723.0	3575.6	1089.3	710.7	576.0	505.2	506.3	528.4	563.2	591.1
5648.6	42.5°	5251.4	3986.7	1175.2	680.5	565.6	488.9	485.4	500.5	523.7	543.5
6274.5	45°	5754.2	4409.5	1260.0	638.7	552.8	472.6	464.5	470.3	475.0	483.1
6884.2	47.5°	6193.2	4706.7	1235.6	600.4	535.4	454.1	440.1	437.8	423.9	422.7
7428.8	50°	6496.3	4771.8	1097.4	562.1	509.8	433.2	411.1	397.2	372.8	361.2
7836.5	52.5°	6592.7	4515.1	896.5	523.7	468.0	405.3	373.9	351.9	321.7	311.2
8071.0	55°	6465.0	4012.3	716.5	477.3	409.9	368.1	333.3	304.3	279.9	267.1
8096.6	57.5°	6152.6	3372.4	566.7	422.7	348.4	326.3	291.5	262.5	241.6	228.8
7813.2	60°	5634.6	2678.0	448.3	357.7	297.3	281.0	245.0	226.5	207.9	192.8
7081.6	62.5°	4848.4	1911.5	351.9	283.4	248.5	229.9	209.0	195.1	173.0	152.1
5765.9	65°	3783.5	1169.4	271.7	207.9	199.7	190.5	177.7	164.9	138.2	117.3
3761.5	67.5°	2386.5	553.9	193.9	156.8	157.9	153.3	147.5	137.0	117.3	98.7
1685.0	70°	1051.0	268.3	127.7	119.6	117.3	117.3	121.9	118.5	99.9	82.5
585.3	72.5°	357.7	144.0	95.2	90.6	84.8	83.6	102.2	98.7	80.1	63.9
291.5	75°	187.0	96.4	69.7	65.0	51.1	61.5	81.3	76.6	56.9	41.8
192.8	77.5°	121.9	68.5	47.6	41.8	29.0	40.6	60.4	53.4	33.7	20.9
126.6	80°	76.6	45.3	27.9	19.7	13.9	22.1	32.5	23.2	12.8	4.6
74.3	82.5°	40.6	23.2	10.5	7.0	5.8	7.0	8.1	5.8	2.3	0.0
38.3	85°	16.3	8.1	3.5	2.3	1.2	0.0	2.3	1.2	0.0	0.0
7.0	87.5°	5.8	1.2	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

(END O

<u>180°</u>
2297.1
2146.1
1796.5
1339.0
903.5
731.6
713.0
702.6
686.3
670.1
659.6
651.5
643.4
635.2
629.4
622.5
600.4
551.6
487.7
421.6
362.3
310.1
267.1
226.5
189.3
148.6
113.8
96.4
79.0
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38.3
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