

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: P942918

Luminaire Tested: **GALN-SB7A-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942918
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-SB7A-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 350mA 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: 14702 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

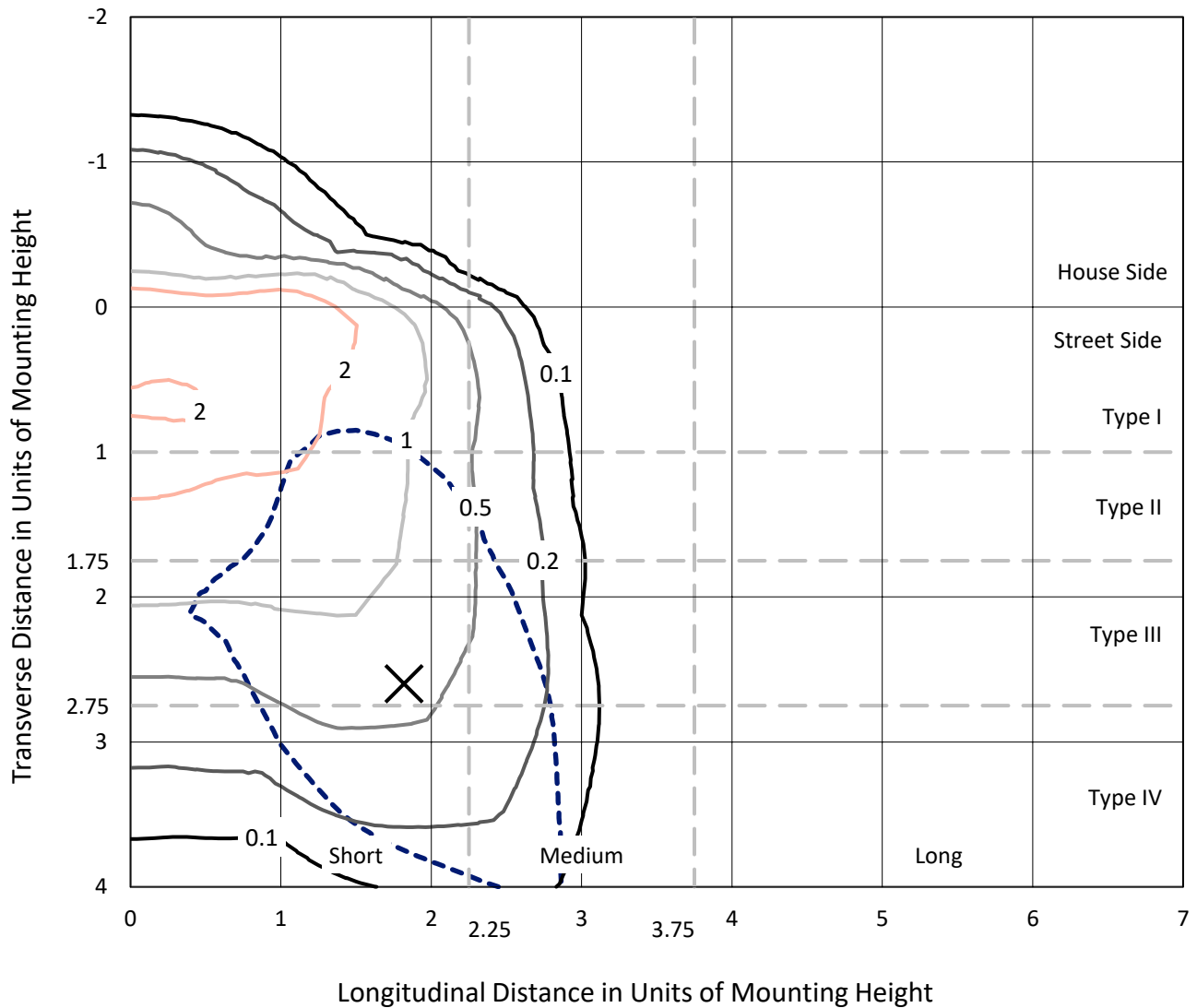
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

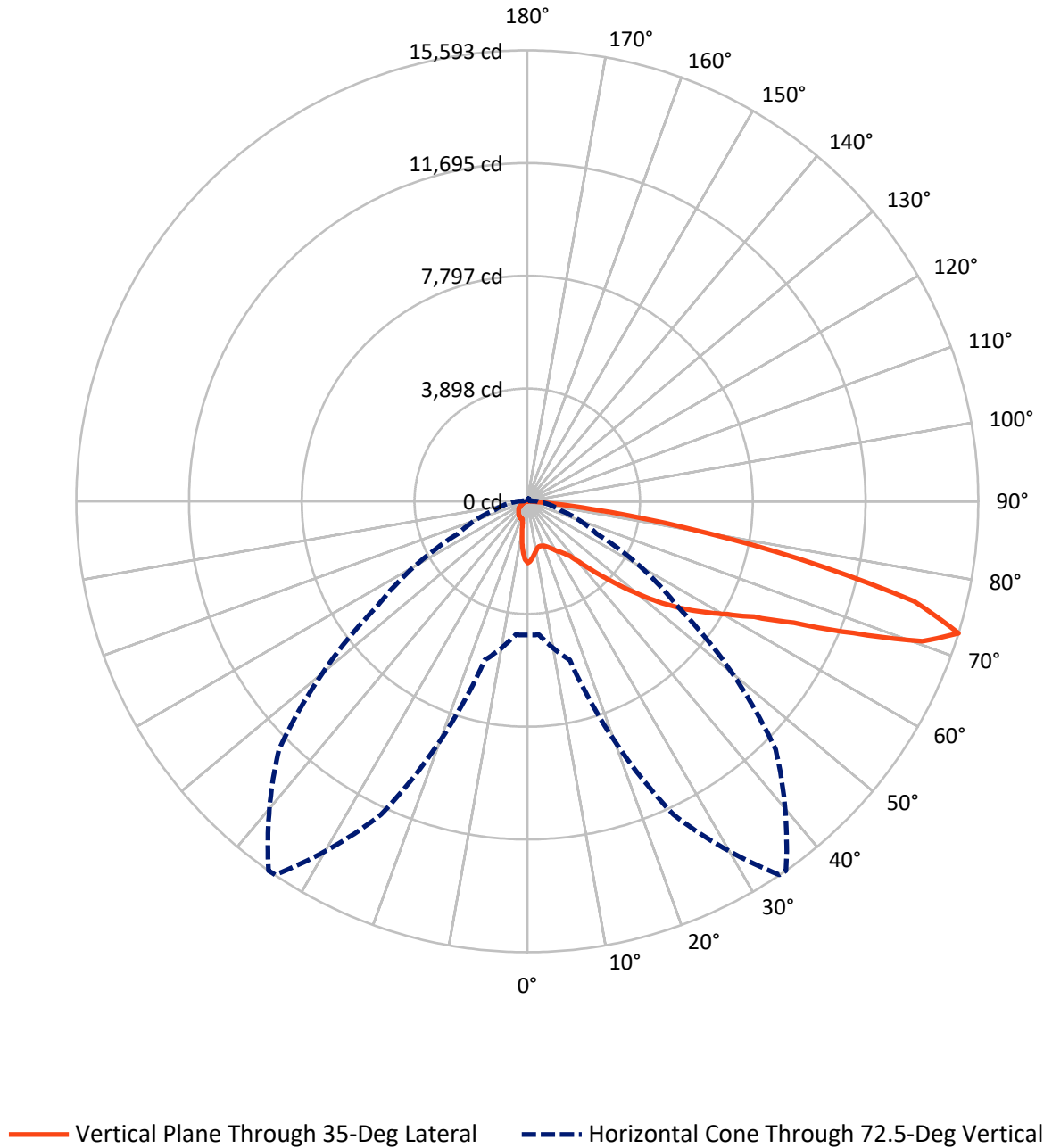
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1654.6	0.0	1654.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13047.4	0.0	13047.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	14702.0	0.0	14702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.2
10°-20°	409.6	2.8
20°-30°	665.4	4.5
30°-40°	1110.2	7.6
40°-50°	2100.6	14.3
50°-60°	3337.8	22.7
60°-70°	4129.1	28.1
70°-80°	2566.7	17.5
80°-90°	207.4	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°	14702.0	100.0
0°-180°	14702.0	100.0

Coefficient of Utilization



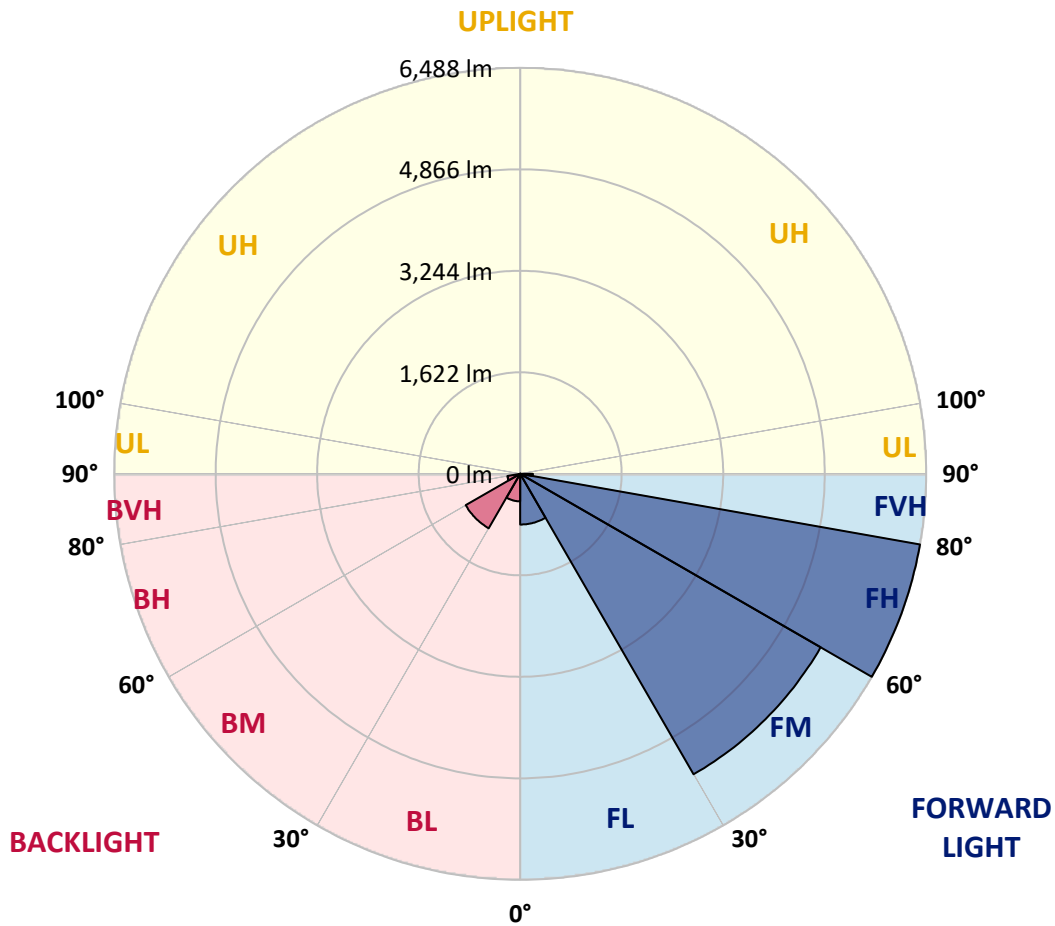
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.5	5.5			
FM (30°-60°)	5544.1	37.7			
FH (60°-80°)	6488.2	44.1			G3/7500
FVH (80°-90°)	204.6	1.4			G2/225
BL (0°-30°)	439.7	3.0	B1/500		
BM (30°-60°)	1004.5	6.8	B2/2500		
BH (60°-80°)	207.6	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	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°	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8
2.5°	2036.0	2053.3	2056.5	2061.9	2061.9	2068.3	2079.1	2094.2	2119.0	2131.9
5°	1876.6	1889.5	1905.7	1918.6	1943.4	1946.6	1988.6	2029.6	2086.6	2129.7
7.5°	1716.1	1731.2	1752.7	1783.9	1816.3	1825.9	1889.5	1958.5	2048.9	2129.7
10°	1603.0	1604.0	1623.4	1654.7	1706.4	1718.2	1795.8	1893.8	2006.9	2116.8
12.5°	1539.4	1546.9	1555.6	1579.3	1628.8	1636.4	1719.3	1834.6	1964.9	2109.3
15°	1539.4	1544.8	1550.2	1562.0	1601.9	1608.3	1681.6	1796.9	1943.4	2112.5
17.5°	1555.6	1564.2	1559.9	1573.9	1615.9	1620.2	1684.8	1786.1	1942.3	2133.0
20°	1594.3	1600.8	1592.2	1600.8	1642.8	1651.4	1718.2	1806.6	1960.6	2168.5
22.5°	1655.7	1659.0	1638.5	1645.0	1688.1	1698.8	1776.4	1864.7	2004.8	2225.6
25°	1733.3	1739.8	1708.5	1716.1	1757.0	1769.9	1859.3	1952.0	2074.8	2304.3
27.5°	1822.7	1825.9	1799.0	1797.9	1850.7	1869.0	1959.5	2059.7	2168.5	2403.4
30°	1925.1	1934.8	1908.9	1904.6	1971.4	1986.5	2075.9	2192.2	2306.4	2552.0
32.5°	2005.9	2013.4	1998.3	2009.1	2076.9	2088.8	2217.0	2379.7	2522.9	2763.2
35°	2122.2	2126.5	2092.0	2111.4	2189.0	2219.1	2409.8	2642.5	2795.5	3028.2
37.5°	2543.4	2543.4	2396.9	2301.0	2375.3	2402.3	2673.7	2973.2	3131.6	3383.7
40°	3126.2	3116.5	2902.1	2706.1	2696.4	2749.2	3049.7	3390.1	3565.7	3810.3
42.5°	3747.8	3732.7	3440.8	3246.9	3214.5	3232.8	3483.8	3904.0	4082.8	4330.6
45°	4299.3	4295.0	4027.9	3767.2	3709.0	3767.2	4025.7	4505.1	4633.3	4894.0
47.5°	4761.5	4761.5	4566.5	4396.3	4366.1	4400.6	4759.3	5171.9	5160.1	5494.0
50°	5293.6	5289.3	5104.0	5030.8	5062.0	5110.5	5603.9	5874.3	5705.1	6083.3
52.5°	5666.4	5692.2	5628.7	5616.8	5776.2	5860.3	6461.4	6561.6	6193.1	6642.4
55°	5961.5	5991.7	6065.0	6147.9	6454.9	6564.8	7291.9	7213.3	6601.4	7127.1
57.5°	6379.5	6336.4	6449.5	6613.3	7109.9	7242.4	8096.7	7828.4	6930.0	7520.3
60°	6886.9	6893.4	6912.8	7119.6	7763.8	7934.0	8889.5	8410.1	7141.1	7761.6
62.5°	7496.6	7506.3	7546.2	7864.0	8641.7	8802.3	9734.1	8886.3	7238.1	7693.8
65°	7454.6	7495.5	7940.5	9027.4	9976.5	10134.8	10719.8	9220.2	7091.6	7073.3
67.5°	6791.0	6857.8	7602.2	10417.1	11988.8	12165.5	11911.2	9285.9	6459.2	5500.5
70°	5920.6	5944.3	6839.5	11666.7	14318.9	14497.7	12977.7	8563.1	4901.5	3068.0
72.5°	4623.6	4629.0	5679.3	11956.5	15583.6	15593.3	12140.7	6356.9	2636.0	1178.5
75°	3302.9	3270.5	3803.8	9696.4	13710.2	13820.1	9101.7	2981.8	1007.2	556.9
77.5°	1771.0	1806.6	2152.4	5750.4	9471.2	9658.7	4966.2	859.7	512.8	379.2
80°	547.2	577.4	882.3	2632.8	5364.7	5477.8	1841.0	382.4	357.6	270.4
82.5°	172.4	178.8	411.5	1106.3	2226.7	2278.4	533.2	216.5	244.5	178.8
85°	49.6	50.6	183.1	412.6	550.5	561.3	149.7	84.0	140.0	111.0
87.5°	5.4	17.2	68.9	68.9	48.5	47.4	16.2	18.3	39.9	14.0
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°
2130.8	0°	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8	2130.8
2140.5	2.5°	2135.1	2136.2	2122.2	2098.5	2072.6	2051.1	2024.2	2002.6	1987.5	1983.2
2159.9	5°	2150.2	2142.7	2102.8	2030.6	1944.4	1870.1	1787.2	1721.5	1678.4	1660.1
2180.4	7.5°	2172.8	2151.3	2064.0	1921.8	1757.0	1610.5	1461.8	1346.6	1273.3	1236.7
2199.8	10°	2192.2	2149.1	1999.4	1764.5	1512.5	1290.6	1090.2	951.2	873.7	837.0
2222.4	12.5°	2210.5	2148.0	1915.4	1578.2	1236.7	965.2	778.9	709.9	688.4	680.8
2259.0	15°	2245.0	2151.3	1809.8	1364.9	962.0	729.3	661.4	660.4	664.7	662.5
2315.0	17.5°	2292.4	2154.5	1690.2	1138.7	742.2	643.1	639.9	649.6	656.0	652.8
2385.0	20°	2353.8	2167.4	1563.1	914.6	637.7	621.6	629.1	637.7	643.1	637.7
2478.8	22.5°	2440.0	2190.1	1424.1	734.7	604.3	608.6	615.1	624.8	630.2	622.7
2598.3	25°	2545.6	2225.6	1287.3	638.8	588.2	593.6	603.3	614.0	620.5	613.0
2749.2	27.5°	2682.4	2282.7	1161.3	617.3	572.0	575.3	589.3	605.4	614.0	604.3
2963.5	30°	2880.6	2376.4	1052.5	627.0	562.3	554.8	574.2	596.8	606.5	597.9
3255.5	32.5°	3143.4	2508.9	985.7	642.0	558.0	531.1	549.4	578.5	594.6	589.3
3636.8	35°	3488.2	2710.4	959.8	659.3	554.8	506.3	519.2	550.5	578.5	583.9
4117.3	37.5°	3906.1	2990.5	967.4	666.8	545.1	485.8	492.3	519.2	555.9	573.1
4658.1	40°	4381.2	3316.9	1010.5	659.3	534.3	468.6	469.7	490.2	522.5	548.3
5239.8	42.5°	4871.4	3698.2	1090.2	631.3	524.6	453.5	450.3	464.3	485.8	504.2
5820.4	45°	5337.8	4090.3	1168.8	592.5	512.8	438.4	430.9	436.3	440.6	448.1
6386.0	47.5°	5745.0	4366.1	1146.2	556.9	496.6	421.2	408.3	406.1	393.2	392.1
6891.2	50°	6026.2	4426.4	1018.0	521.4	472.9	401.8	381.3	368.4	345.8	335.0
7269.3	52.5°	6115.6	4188.4	831.6	485.8	434.1	376.0	346.9	326.4	298.4	288.7
7486.9	55°	5997.1	3721.9	664.7	442.8	380.3	341.5	309.2	282.2	259.6	247.8
7510.6	57.5°	5707.3	3128.4	525.7	392.1	323.2	302.7	270.4	243.5	224.1	212.2
7247.8	60°	5226.8	2484.2	415.8	331.8	275.8	260.7	227.3	210.1	192.8	178.8
6569.1	62.5°	4497.5	1773.2	326.4	262.9	230.5	213.3	193.9	181.0	160.5	141.1
5348.6	65°	3509.7	1084.8	252.1	192.8	185.3	176.7	164.8	153.0	128.2	108.8
3489.2	67.5°	2213.8	513.9	179.9	145.4	146.5	142.2	136.8	127.1	108.8	91.6
1563.1	70°	974.9	248.8	118.5	111.0	108.8	108.8	113.1	109.9	92.6	76.5
542.9	72.5°	331.8	133.6	88.3	84.0	78.6	77.6	94.8	91.6	74.3	59.2
270.4	75°	173.4	89.4	64.6	60.3	47.4	57.1	75.4	71.1	52.8	38.8
178.8	77.5°	113.1	63.6	44.2	38.8	26.9	37.7	56.0	49.6	31.2	19.4
117.4	80°	71.1	42.0	25.9	18.3	12.9	20.5	30.2	21.5	11.8	4.3
68.9	82.5°	37.7	21.5	9.7	6.5	5.4	6.5	7.5	5.4	2.2	0.0
35.5	85°	15.1	7.5	3.2	2.2	1.1	0.0	2.2	1.1	0.0	0.0
6.5	87.5°	5.4	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>
2130.8
1990.8
1666.5
1242.1
838.1
678.7
661.4
651.7
636.7
621.6
611.9
604.3
596.8
589.3
583.9
577.4
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