

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: P950704

Luminaire Tested: **GALN-SB5A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15059 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

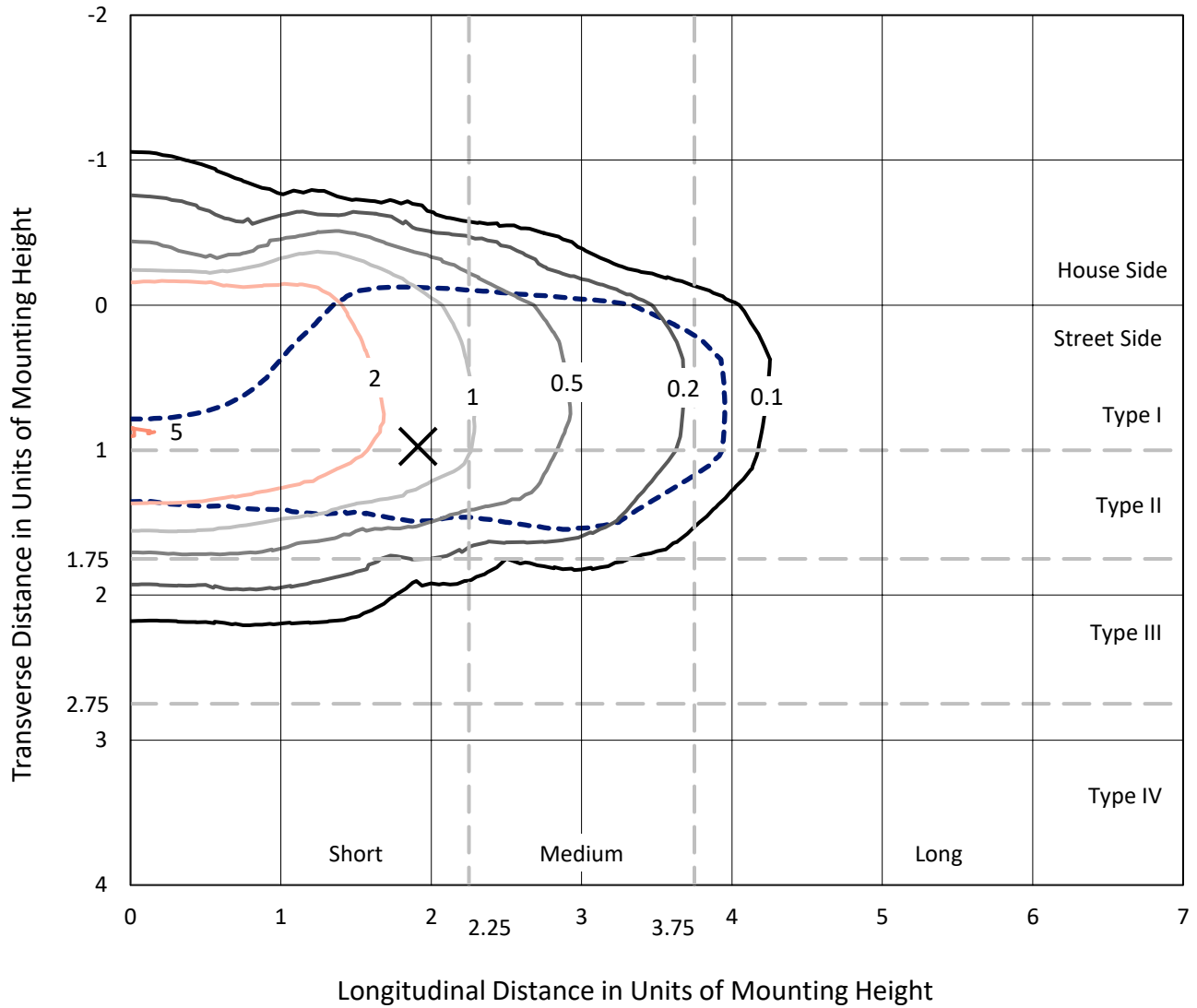
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

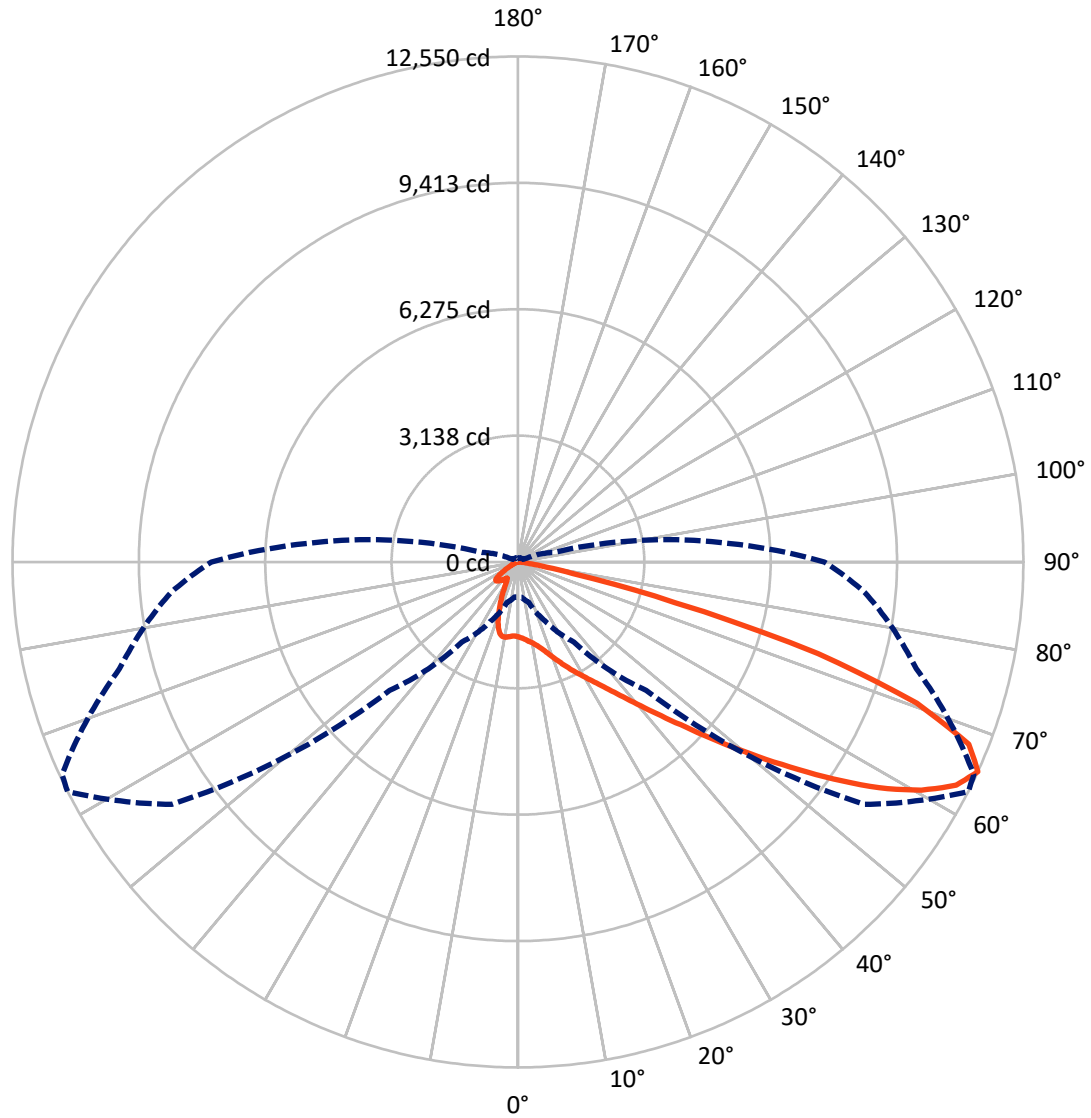
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2213.6	0.0	2213.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12845.4	0.0	12845.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	15059.0	0.0	15059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.2
10°-20°	485.9	3.2
20°-30°	846.0	5.6
30°-40°	1524.9	10.1
40°-50°	3024.3	20.1
50°-60°	4119.6	27.4
60°-70°	3288.2	21.8
70°-80°	1488.0	9.9
80°-90°	107.0	0.7
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°	15059.0	100.0
0°-180°	15059.0	100.0

Coefficient of Utilization



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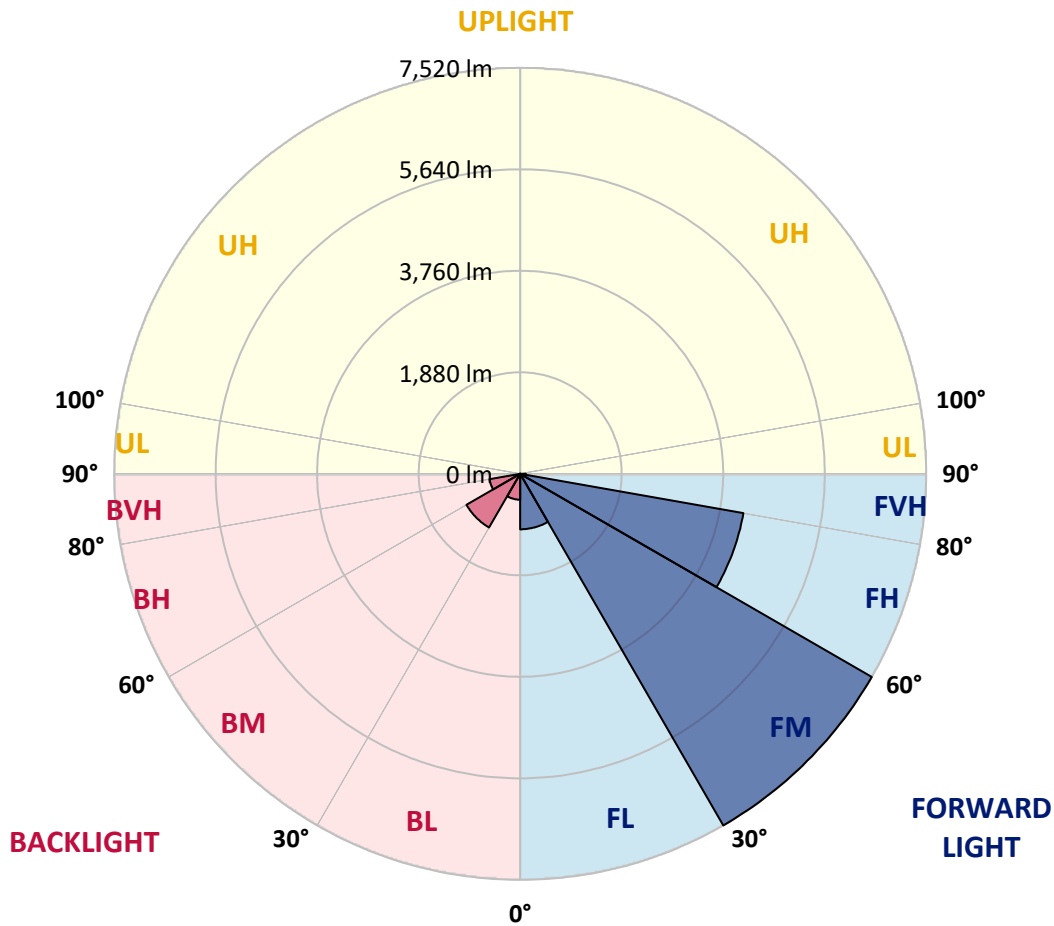
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.0	6.8			
FM (30°-60°)	7520.1	49.9			
FH (60°-80°)	4198.4	27.9			G2/5000
FVH (80°-90°)	99.0	0.7			G1/100
BL (0°-30°)	479.1	3.2	B1/500		
BM (30°-60°)	1148.7	7.6	B2/2500		
BH (60°-80°)	577.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6
2.5°	1902.1	1896.9	1904.1	1901.0	1899.0	1894.8	1892.8	1890.7	1886.5	1883.4
5°	1907.3	1904.1	1911.4	1917.6	1923.8	1930.0	1933.2	1937.3	1933.2	1924.9
7.5°	1863.7	1861.7	1877.2	1895.9	1923.8	1947.7	1973.6	1988.1	1989.1	1986.0
10°	1860.6	1855.5	1871.0	1893.8	1930.0	1972.5	2018.1	2049.2	2053.3	2066.8
12.5°	1909.3	1904.1	1925.9	1950.8	1988.1	2032.6	2088.6	2132.1	2138.3	2156.9
15°	1991.2	1983.9	2008.8	2040.9	2088.6	2139.3	2198.4	2237.7	2242.9	2265.7
17.5°	2086.5	2079.2	2108.2	2142.4	2194.2	2263.6	2332.0	2375.5	2381.7	2396.2
20°	2208.7	2199.4	2222.2	2253.3	2308.2	2391.1	2472.9	2535.1	2534.0	2534.0
22.5°	2350.7	2336.2	2355.8	2380.7	2432.5	2533.0	2641.8	2715.3	2715.3	2686.3
25°	2503.0	2488.4	2510.2	2533.0	2578.6	2692.5	2820.0	2911.1	2915.3	2865.5
27.5°	2693.6	2674.9	2691.5	2718.4	2745.4	2861.4	3012.7	3118.3	3120.4	3043.7
30°	3060.3	3007.5	2955.7	2926.7	2939.1	3054.1	3215.7	3332.8	3343.1	3237.5
32.5°	3731.6	3721.3	3538.9	3300.7	3176.3	3261.3	3442.6	3583.5	3589.7	3454.0
35°	4774.9	4762.4	4469.3	4015.5	3610.4	3538.9	3718.2	3885.0	3880.8	3727.5
37.5°	6020.1	6008.7	5622.3	5015.2	4359.4	3958.5	4073.5	4248.6	4274.5	4073.5
40°	7084.1	7041.6	6797.1	6211.8	5354.0	4654.7	4579.1	4695.1	4722.0	4483.8
42.5°	7890.1	7853.8	7729.5	7363.8	6557.8	5684.5	5174.8	5219.3	5249.4	4963.4
45°	8307.6	8299.3	8349.0	8314.9	7784.4	6948.4	6026.4	5840.9	5852.3	5494.9
47.5°	8366.7	8362.5	8589.4	8910.5	8839.1	8373.9	7119.3	6615.8	6575.4	6094.7
50°	8018.6	8010.3	8445.4	9047.3	9543.5	9571.5	8360.4	7489.2	7400.1	6715.3
52.5°	6906.9	6904.9	7619.7	8621.5	9791.1	10619.9	9587.0	8448.5	8299.3	7372.1
55°	5314.6	5353.0	6172.4	7356.6	9339.4	11124.5	10688.3	9513.5	9284.5	8033.1
57.5°	3764.8	3820.7	4630.9	5685.5	7938.8	10826.1	11433.2	10580.6	10334.0	8692.0
60°	2022.3	2072.0	2883.2	4141.9	5906.2	9713.4	11825.8	11506.7	11273.6	9317.7
62.5°	1204.9	1221.4	1557.1	2673.9	3994.8	7420.8	11659.0	12212.2	12020.6	9842.9
65°	865.1	868.2	1037.0	1632.7	2425.3	4508.6	10489.4	12550.0	12490.9	10238.7
67.5°	728.3	726.2	796.7	1084.7	1652.4	2258.5	8039.3	12072.4	12323.1	10489.4
70°	624.7	627.8	710.7	794.6	1242.2	1278.4	3996.8	10511.1	11045.7	10555.7
72.5°	465.2	475.5	552.2	724.2	937.6	879.6	1379.9	7793.7	8760.3	9945.5
75°	328.4	333.6	388.5	609.2	699.3	640.2	704.5	4029.0	5268.0	7624.9
77.5°	252.8	262.1	294.2	425.8	688.9	449.6	431.0	1394.4	2142.4	4606.0
80°	136.8	153.3	212.4	307.7	483.8	318.0	213.4	555.3	726.2	2153.8
82.5°	70.4	78.7	148.1	221.7	275.6	277.6	105.7	231.0	299.4	665.1
85°	28.0	34.2	99.5	122.2	141.9	136.8	47.7	93.2	107.7	184.4
87.5°	6.2	10.4	36.3	28.0	26.9	29.0	11.4	21.8	20.7	21.8
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°
1858.6	0°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6
1871.0	2.5°	1870.0	1865.8	1854.4	1842.0	1827.5	1819.2	1814.0	1813.0	1805.7	1800.5
1912.4	5°	1901.0	1896.9	1875.1	1849.2	1821.3	1799.5	1778.8	1760.1	1733.2	1728.0
1972.5	7.5°	1963.2	1951.8	1916.6	1881.4	1828.5	1765.3	1688.7	1600.6	1521.9	1498.0
2052.3	10°	2039.9	2024.3	1979.8	1917.6	1800.5	1628.6	1443.1	1271.2	1134.4	1096.1
2146.6	12.5°	2126.9	2113.4	2054.4	1939.4	1683.5	1371.7	1087.8	874.4	741.8	708.6
2247.1	15°	2230.5	2210.8	2129.0	1906.2	1474.2	1042.2	746.9	620.6	572.9	566.7
2362.1	17.5°	2340.3	2308.2	2195.3	1787.1	1192.4	740.7	577.0	540.8	520.1	513.9
2478.1	20°	2440.8	2399.4	2234.6	1606.8	891.0	577.0	517.0	493.1	474.5	467.2
2594.1	22.5°	2541.3	2482.2	2234.6	1361.3	668.2	511.8	474.5	452.7	431.0	421.6
2718.4	25°	2645.9	2567.2	2195.3	1087.8	537.7	469.3	434.1	410.3	391.6	380.2
2836.5	27.5°	2747.4	2638.7	2105.1	828.8	478.6	432.0	396.8	374.0	356.4	348.1
2965.0	30°	2843.8	2709.1	1978.7	628.8	440.3	395.7	362.6	342.9	325.3	317.0
3131.8	32.5°	2974.3	2798.2	1844.1	515.9	407.1	361.6	331.5	312.9	297.3	291.1
3348.3	35°	3155.6	2929.8	1728.0	506.6	379.2	333.6	303.5	285.9	270.4	265.2
3628.0	37.5°	3412.5	3142.2	1666.9	568.8	356.4	308.7	280.8	262.1	247.6	243.5
3983.4	40°	3729.6	3430.2	1700.1	630.9	340.8	287.0	260.0	241.4	229.0	223.8
4391.6	42.5°	4105.6	3785.5	1883.4	678.6	330.5	268.3	240.3	219.6	211.3	209.3
4854.6	45°	4537.6	4176.1	2164.2	729.3	313.9	250.7	220.7	205.1	198.9	197.9
5358.1	47.5°	5028.7	4605.0	2489.5	792.5	297.3	234.1	205.1	194.8	189.6	187.5
5883.4	50°	5515.6	5037.0	2824.1	827.8	283.9	218.6	192.7	184.4	180.3	179.2
6438.7	52.5°	6025.3	5481.4	3094.5	794.6	272.5	206.2	182.3	176.1	172.0	170.9
6950.5	55°	6511.2	5840.9	3141.1	674.4	249.7	193.7	170.9	167.8	162.7	162.7
7469.5	57.5°	6929.7	6021.2	2811.7	495.2	226.9	175.1	159.5	156.4	152.3	151.3
7937.8	60°	7314.1	5969.4	2170.4	333.6	202.0	156.4	145.0	143.0	138.8	133.6
8344.9	62.5°	7530.6	5741.5	1484.6	217.6	177.2	136.8	128.5	127.4	118.1	107.7
8646.4	65°	7612.5	5273.2	926.2	158.5	148.1	117.1	110.9	108.8	95.3	83.9
8817.3	67.5°	7541.0	4502.4	467.2	125.4	117.1	97.4	91.2	91.2	81.8	71.5
8806.9	70°	7255.0	3375.3	196.8	100.5	90.1	74.6	74.6	78.7	69.4	58.0
8350.1	72.5°	6634.5	2270.9	104.6	76.7	67.3	52.8	61.1	64.2	54.9	43.5
6834.4	75°	5274.2	1385.1	72.5	57.0	42.5	37.3	46.6	48.7	37.3	29.0
4685.8	77.5°	3607.3	795.6	48.7	36.3	26.9	21.8	32.1	30.0	19.7	13.5
1806.8	80°	1584.0	331.5	28.0	16.6	10.4	8.3	11.4	8.3	6.2	4.1
247.6	82.5°	185.4	77.7	10.4	6.2	4.1	2.1	1.0	0.0	0.0	0.0
75.6	85°	38.3	9.3	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
13.5	87.5°	7.3	2.1	1.0	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>
1858.6
1805.7
1726.0
1486.6
1081.6
699.3
560.5
510.7
463.1
416.5
376.1
348.1
318.0
291.1
265.2
242.4
222.7
209.3
196.8
187.5
179.2
170.9
161.6
150.2
132.6
105.7
82.9
70.4
57.0
43.5
28.0
14.5
4.1
0.0
0.0
0.0
0.0

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