

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: P949025

Luminaire Tested: **GALN-SB3D-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18834 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

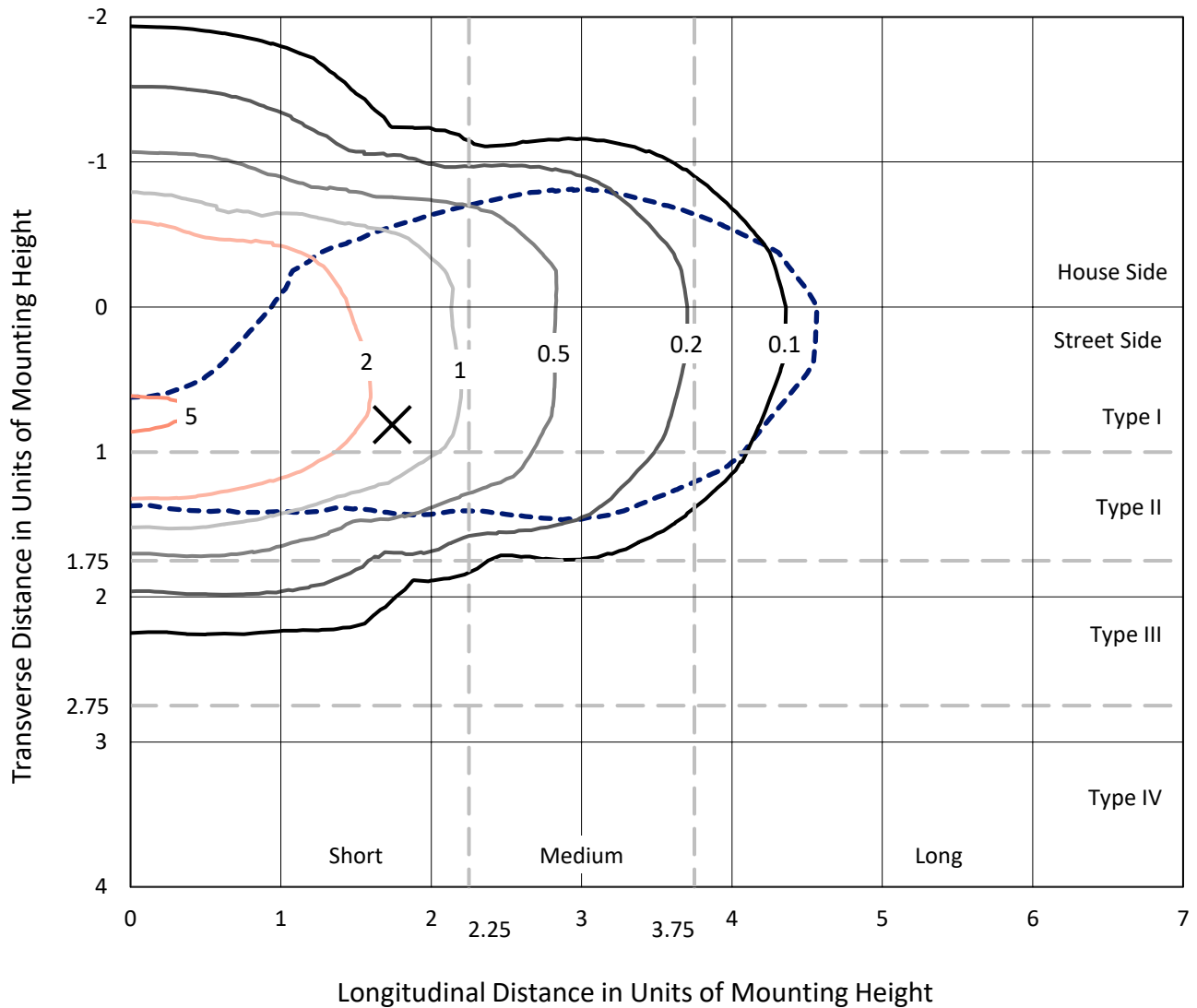
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

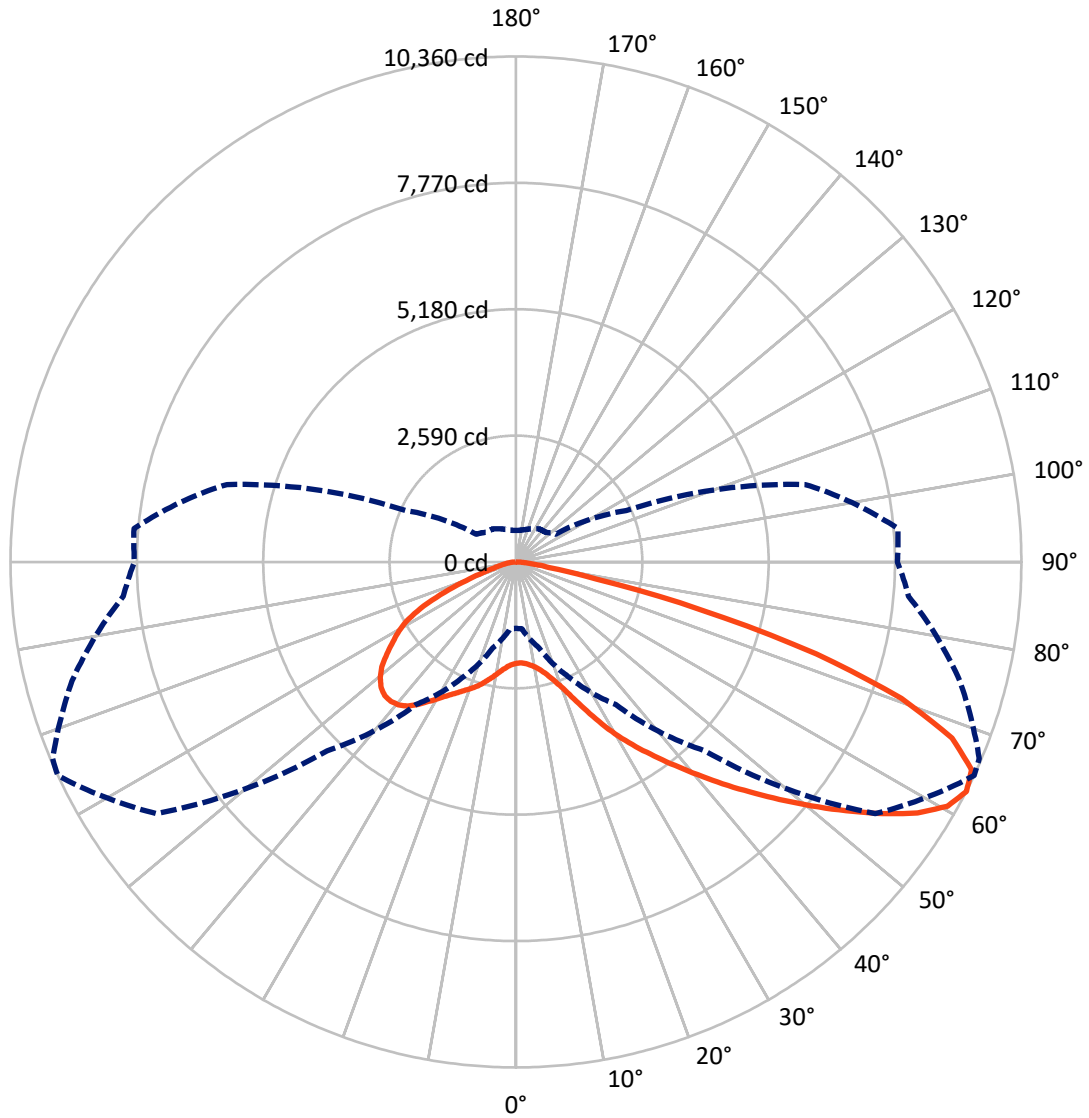
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5943.2	0.0	5943.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12890.8	0.0	12890.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	18834.0	0.0	18834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.1
10°-20°	701.7	3.7
20°-30°	1422.7	7.6
30°-40°	2462.0	13.1
40°-50°	3725.8	19.8
50°-60°	4368.2	23.2
60°-70°	3662.2	19.4
70°-80°	2021.8	10.7
80°-90°	262.6	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°	18834.0	100.0
0°-180°	18834.0	100.0

Coefficient of Utilization



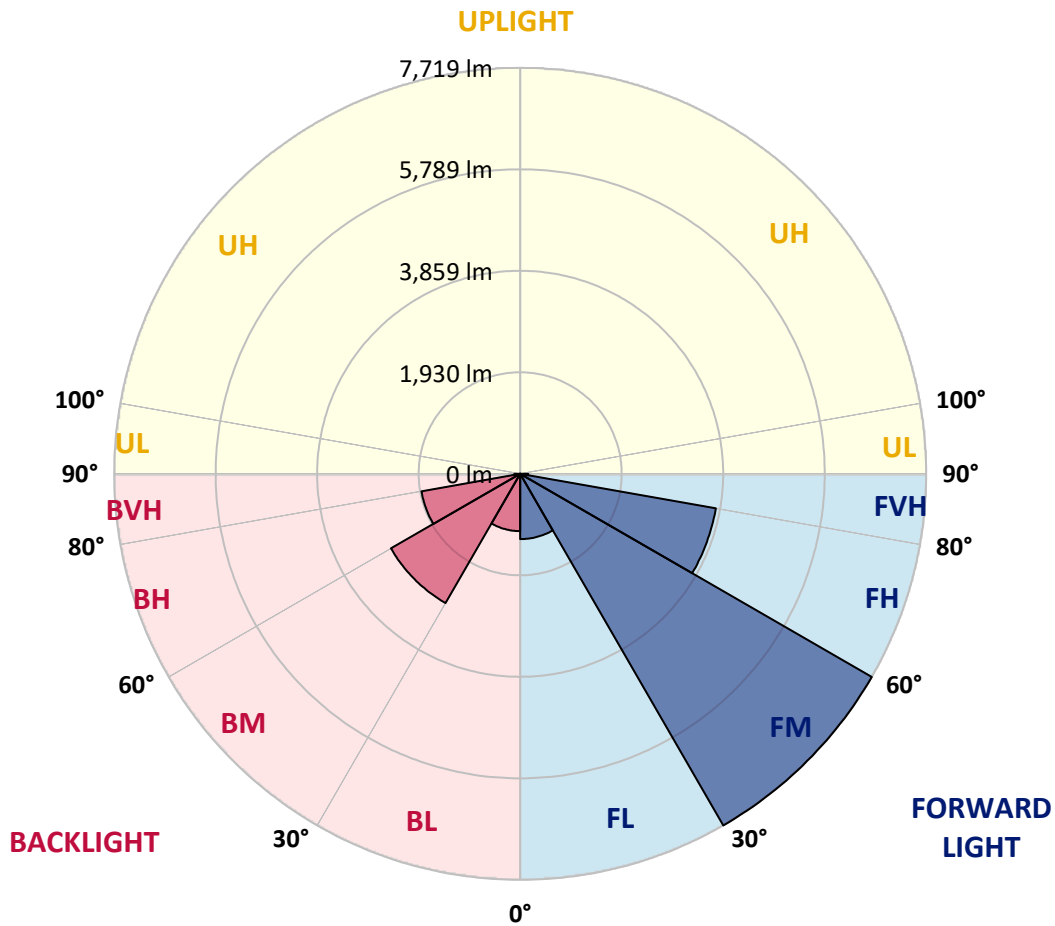
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.4	6.6			
FM (30°-60°)	7718.8	41.0			
FH (60°-80°)	3777.5	20.1			G2/5000
FVH (80°-90°)	153.1	0.8			G2/225
BL (0°-30°)	1089.9	5.8	B3/2500		
BM (30°-60°)	2837.2	15.1	B3/5000		
BH (60°-80°)	1906.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	109.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4
2.5°	2061.7	2055.9	2060.8	2060.8	2062.7	2061.7	2068.6	2070.5	2073.5	2079.3
5°	2041.2	2040.2	2049.0	2056.9	2064.7	2071.5	2080.3	2093.0	2095.0	2101.8
7.5°	2034.4	2028.5	2042.2	2052.0	2070.5	2087.2	2110.6	2132.1	2140.9	2143.8
10°	2087.2	2077.4	2090.1	2095.9	2111.6	2128.2	2155.5	2189.7	2199.5	2211.2
12.5°	2177.0	2166.3	2184.9	2193.7	2208.3	2223.0	2241.5	2274.8	2279.6	2301.1
15°	2300.2	2287.5	2299.2	2309.9	2334.4	2348.0	2366.6	2398.9	2398.9	2415.5
17.5°	2467.3	2450.6	2459.4	2463.3	2479.0	2499.5	2530.8	2559.1	2573.8	2567.9
20°	2716.4	2695.9	2695.9	2676.4	2670.5	2687.1	2728.1	2767.2	2782.9	2752.6
22.5°	3090.7	3061.3	3044.7	2978.3	2951.9	2953.9	2994.9	3042.8	3055.5	3001.7
25°	3566.5	3520.6	3498.1	3400.4	3340.8	3289.0	3321.3	3382.8	3400.4	3334.0
27.5°	4042.4	4045.3	4023.8	3906.6	3807.9	3713.1	3696.5	3761.0	3779.5	3704.3
30°	4709.8	4640.4	4599.4	4458.6	4317.9	4185.0	4116.7	4143.0	4147.9	4058.0
32.5°	5285.3	5267.7	5179.8	5056.7	4875.9	4667.8	4553.4	4511.4	4503.6	4375.6
35°	5941.0	5931.2	5838.4	5691.8	5496.4	5207.1	5001.0	4880.8	4871.0	4691.2
37.5°	6607.4	6607.4	6516.5	6356.2	6154.0	5792.4	5478.8	5288.2	5257.0	5022.5
40°	7138.9	7106.7	7123.3	7055.9	6824.3	6440.3	6009.4	5732.8	5690.8	5409.4
42.5°	7440.8	7430.1	7529.8	7605.0	7510.2	7203.4	6593.7	6214.5	6155.9	5835.4
45°	7508.3	7496.5	7674.4	7949.9	8082.8	7956.8	7228.8	6721.7	6650.4	6281.0
47.5°	7352.9	7329.5	7590.3	8025.2	8451.2	8673.0	7916.7	7271.8	7168.2	6714.8
50°	6885.8	6863.4	7258.1	7835.6	8575.3	9159.6	8663.2	7855.2	7696.9	7180.0
52.5°	5870.6	5881.3	6499.9	7293.3	8412.1	9462.5	9306.2	8469.8	8279.2	7655.8
55°	4573.0	4596.4	5356.6	6230.2	7759.4	9416.6	9744.9	9102.9	8913.4	8103.3
57.5°	3274.4	3377.9	4090.3	4955.0	6505.7	8688.6	9840.7	9704.9	9521.2	8591.9
60°	2122.3	2140.9	2873.7	3745.3	4954.1	7394.9	9646.2	10161.2	10017.5	9090.2
62.5°	1360.2	1372.9	1819.4	2619.7	3565.5	5471.0	8991.6	10359.5	10315.6	9419.5
65°	999.6	989.8	1222.4	1731.5	2401.8	3374.0	7720.3	10263.8	10350.7	9625.7
67.5°	834.5	820.8	935.1	1198.9	1769.6	1916.2	5712.3	9641.3	9959.9	9602.3
70°	760.2	748.5	817.9	890.2	1380.7	1283.0	2879.6	8381.8	8872.3	9335.5
72.5°	643.9	623.4	718.2	790.5	1073.9	984.0	1190.1	6438.3	7036.3	8480.5
75°	499.3	485.6	566.7	695.7	807.1	768.0	752.4	3909.5	4562.2	6558.5
77.5°	395.7	377.2	451.4	542.3	726.0	579.4	548.2	1683.6	2330.5	4187.0
80°	298.0	281.4	343.0	429.0	557.9	436.8	354.7	686.9	878.4	2121.4
82.5°	212.0	197.4	239.4	314.6	375.2	391.8	217.9	385.0	432.9	817.9
85°	135.8	127.0	160.2	197.4	238.4	252.1	132.9	201.3	220.8	337.1
87.5°	74.3	60.6	86.0	91.9	110.4	100.6	63.5	73.3	79.1	122.1
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°
2075.4	0°	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4	2075.4
2079.3	2.5°	2083.2	2086.2	2095.9	2098.9	2105.7	2114.5	2120.4	2126.2	2126.2	2132.1
2110.6	5°	2111.6	2118.4	2138.9	2149.7	2167.3	2184.9	2195.6	2208.3	2216.1	2220.0
2160.4	7.5°	2166.3	2177.0	2206.4	2224.9	2255.2	2279.6	2296.3	2313.8	2317.8	2328.5
2229.8	10°	2240.6	2253.3	2286.5	2321.7	2357.8	2388.1	2403.7	2416.4	2421.3	2423.3
2318.7	12.5°	2325.6	2344.1	2387.1	2430.1	2468.2	2494.6	2498.5	2495.6	2481.9	2470.2
2428.2	15°	2430.1	2446.7	2494.6	2541.5	2578.6	2583.5	2559.1	2543.5	2526.9	2523.9
2550.3	17.5°	2555.2	2564.0	2608.0	2653.9	2656.8	2640.2	2604.1	2589.4	2573.8	2563.0
2709.6	20°	2700.8	2697.9	2729.1	2748.7	2728.1	2677.3	2622.6	2598.2	2582.6	2569.9
2905.0	22.5°	2874.7	2852.2	2848.3	2843.4	2788.7	2682.2	2608.0	2576.7	2552.3	2534.7
3177.6	25°	3127.8	3041.8	2982.2	2949.0	2825.9	2655.8	2561.1	2491.7	2445.8	2415.5
3510.8	27.5°	3444.4	3299.8	3149.3	3068.2	2825.9	2602.1	2447.7	2335.3	2260.1	2228.8
3833.3	30°	3746.3	3594.9	3373.1	3211.8	2819.0	2514.2	2265.0	2108.6	2020.7	1989.4
4108.8	32.5°	4004.3	3839.1	3610.5	3369.1	2802.4	2371.5	2038.3	1865.3	1780.3	1743.2
4381.5	35°	4243.7	4067.8	3848.9	3542.1	2758.4	2162.4	1789.1	1657.2	1562.4	1502.8
4659.0	37.5°	4488.9	4279.8	4074.6	3698.4	2679.3	1918.1	1597.6	1485.2	1373.8	1293.7
4954.1	40°	4755.7	4505.5	4316.0	3791.3	2549.3	1685.6	1449.1	1346.5	1228.3	1143.2
5294.1	42.5°	5067.4	4776.2	4584.7	3839.1	2371.5	1520.4	1352.3	1251.7	1140.3	1070.9
5658.6	45°	5392.8	5074.2	4830.0	3838.2	2173.1	1443.2	1321.1	1221.4	1098.3	1026.0
6032.8	47.5°	5733.8	5385.9	5042.0	3775.6	2001.2	1454.0	1303.5	1155.9	1020.1	949.8
6411.0	50°	6075.8	5727.0	5247.2	3658.4	1927.9	1430.5	1238.0	1064.1	903.8	840.3
6765.7	52.5°	6414.9	6089.5	5424.1	3491.3	1853.6	1343.6	1154.0	944.9	856.0	812.0
7132.1	55°	6755.9	6448.1	5616.5	3248.0	1668.0	1241.9	1013.3	899.9	817.9	777.8
7490.7	57.5°	7097.9	6862.4	5799.3	3004.7	1434.4	1116.9	936.1	845.2	779.8	745.6
7790.7	60°	7453.6	7336.3	5987.9	2780.9	1203.8	956.6	879.4	801.2	734.8	696.7
8078.9	62.5°	7820.0	7858.1	6135.4	2492.7	991.8	858.9	828.6	748.5	684.0	647.8
8317.3	65°	8189.3	8361.3	6232.1	2093.0	804.2	766.1	773.9	690.8	625.4	594.1
8492.2	67.5°	8467.8	8723.8	6204.8	1583.9	659.6	678.1	705.5	630.2	568.7	544.3
8463.9	70°	8499.1	8680.8	5935.1	1084.6	552.1	592.1	629.3	570.6	507.1	489.5
8065.2	72.5°	8082.8	8094.5	5183.7	708.4	467.1	519.8	549.1	510.1	448.5	430.9
7055.9	75°	6991.4	6694.3	3805.9	467.1	390.9	446.5	473.9	446.5	386.9	390.9
5279.4	77.5°	5297.0	4741.0	2310.9	332.2	326.4	375.2	412.3	392.8	342.0	384.0
2654.9	80°	2729.1	2565.0	1030.9	248.2	258.0	300.0	339.1	313.7	270.7	258.0
593.1	82.5°	625.4	727.0	406.5	177.8	186.6	215.9	258.9	235.5	194.4	164.2
247.2	85°	218.9	239.4	179.8	111.4	109.4	134.8	175.9	157.3	131.9	105.5
104.6	87.5°	69.4	90.9	67.4	44.9	46.9	60.6	81.1	74.3	61.6	40.1
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>
2075.4
2132.1
2222.0
2324.6
2418.4
2470.2
2523.9
2564.0
2570.8
2540.5
2427.2
2244.5
2008.0
1761.8
1522.4
1315.2
1159.9
1084.6
1037.7
959.5
844.2
812.0
773.9
739.7
693.8
646.9
593.1
545.2
490.5
429.9
377.2
338.1
235.5
162.2
111.4
42.0
0.0

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