

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: STREETWORKS

Report Number: P847973

Luminaire Tested: **GLAN-SB4B-827-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17837 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

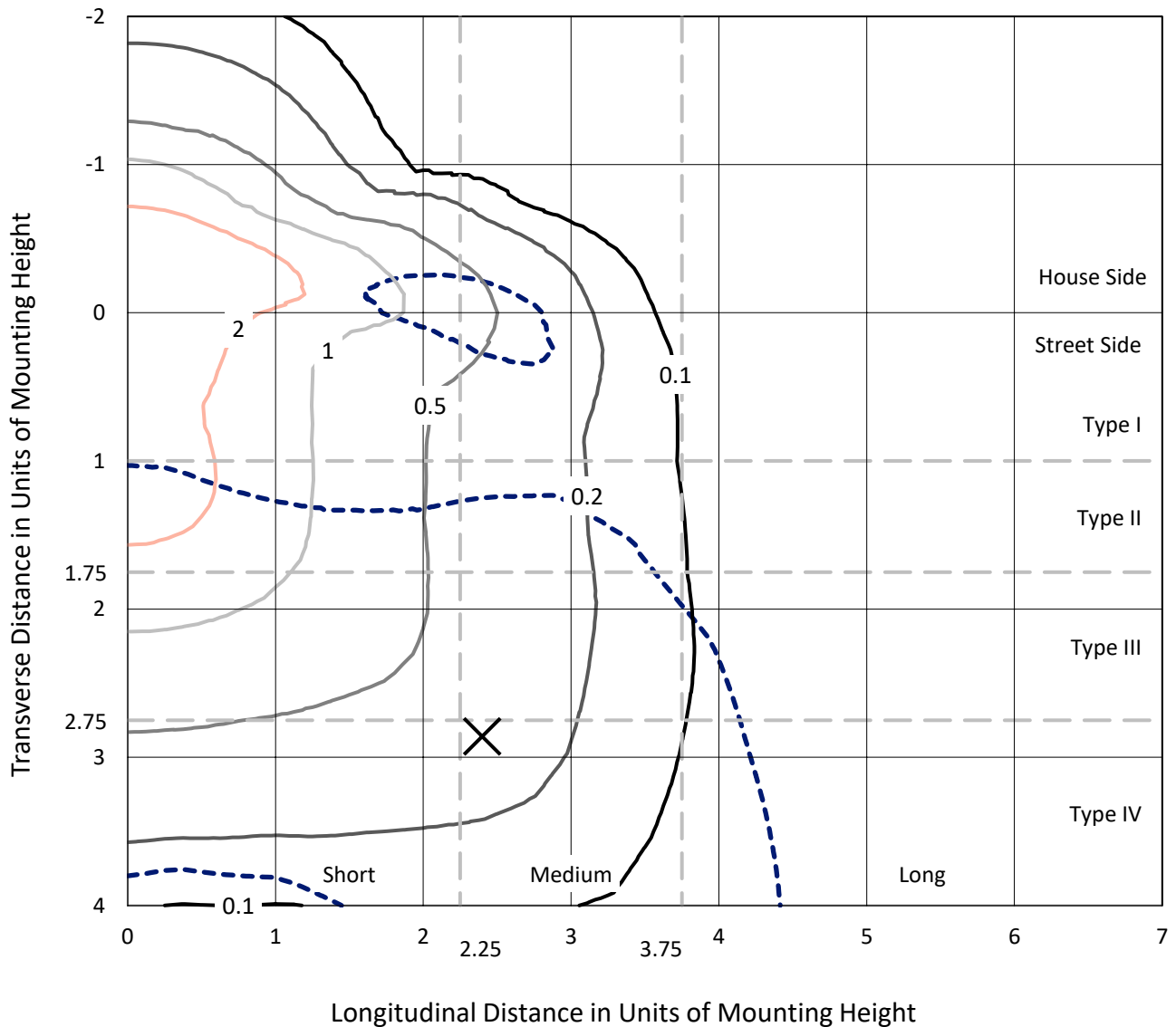
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

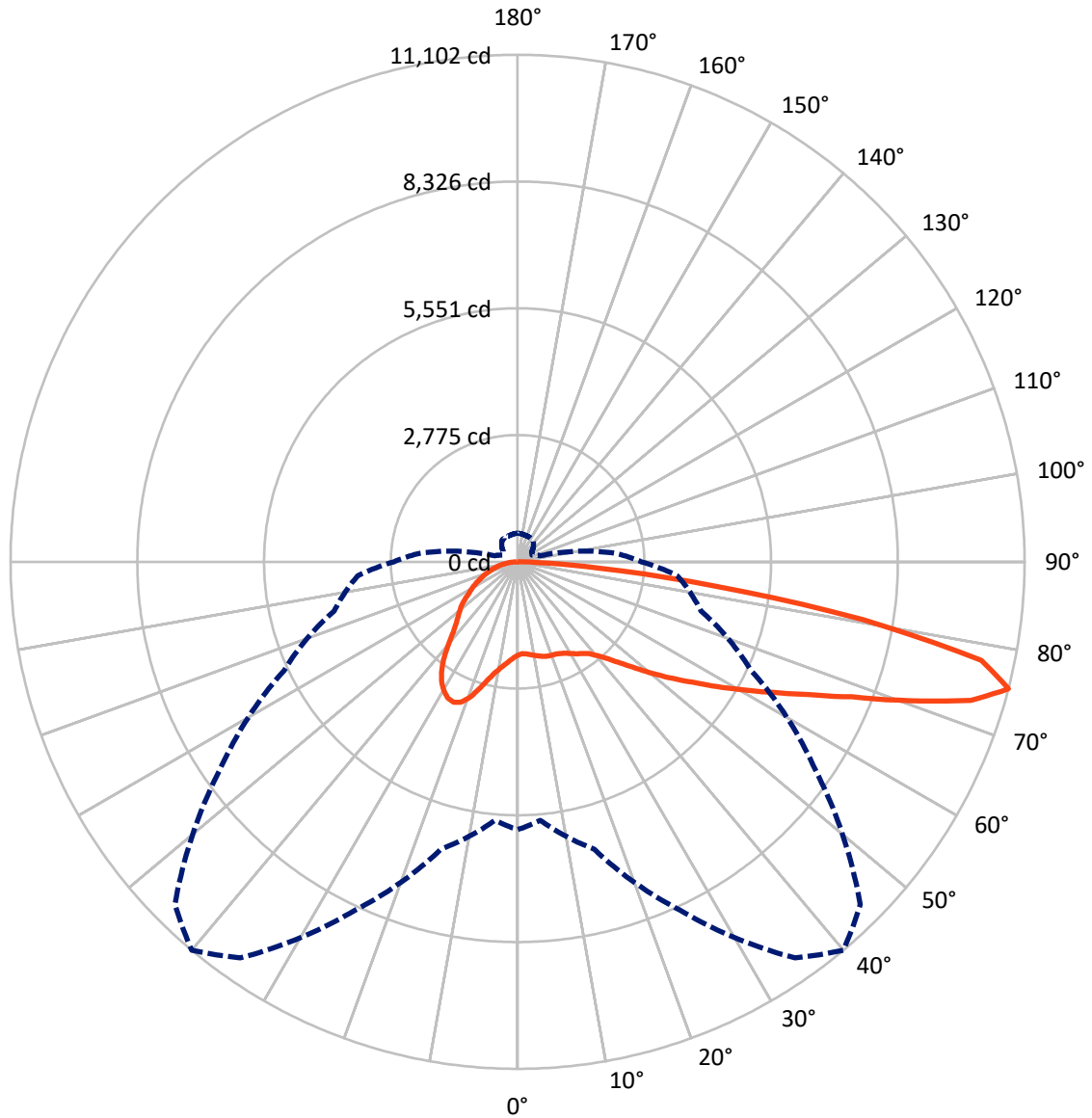
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5526.5	0.0	5526.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	12310.5	0.0	12310.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	17837.0	0.0	17837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.6	1.1
10°-20°	683.6	3.8
20°-30°	1248.2	7.0
30°-40°	1770.2	9.9
40°-50°	2390.3	13.4
50°-60°	3215.6	18.0
60°-70°	4081.4	22.9
70°-80°	3704.1	20.8
80°-90°	539.9	3.0
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°	17837.0	100.0
0°-180°	17837.0	100.0

Coefficient of Utilization

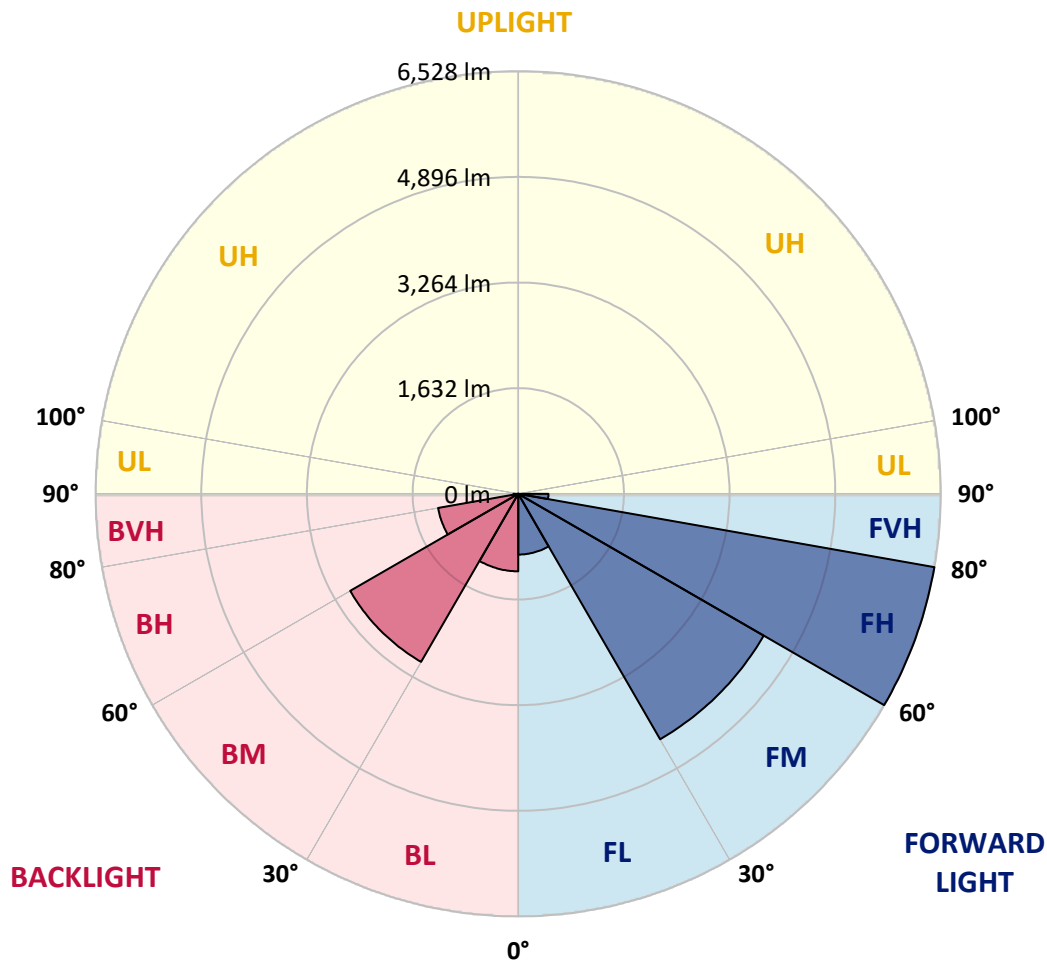


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.2	5.3			
FM (30°-60°)	4378.6	24.5			
FH (60°-80°)	6528.1	36.6			G3/7500
FVH (80°-90°)	465.6	2.6			G3/500
BL (0°-30°)	1197.1	6.7	B3/2500		
BM (30°-60°)	2997.6	16.8	B3/5000		
BH (60°-80°)	1257.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7
2.5°	2008.5	2019.8	2017.0	2013.2	2013.2	2014.1	2013.2	2019.8	2026.4	2033.1
5°	2029.3	2040.6	2035.0	2030.2	2026.4	2025.5	2022.7	2021.7	2025.5	2034.0
7.5°	2070.0	2081.3	2072.8	2064.3	2056.7	2052.9	2049.1	2043.5	2040.6	2045.4
10°	2115.4	2126.7	2116.3	2101.2	2088.9	2084.1	2080.4	2074.7	2070.9	2073.7
12.5°	2160.8	2172.1	2157.9	2137.1	2121.0	2118.2	2113.5	2111.6	2110.6	2109.7
15°	2203.4	2212.8	2194.8	2170.2	2153.2	2148.5	2143.8	2146.6	2151.3	2157.0
17.5°	2236.5	2245.9	2219.4	2187.3	2171.2	2169.3	2166.5	2175.9	2189.2	2203.4
20°	2266.7	2276.2	2242.1	2198.6	2179.7	2179.7	2180.6	2200.5	2219.4	2240.2
22.5°	2309.3	2316.9	2275.3	2215.7	2188.2	2190.1	2197.7	2217.5	2241.2	2269.6
25°	2372.7	2378.4	2327.3	2247.8	2216.6	2222.3	2228.9	2238.4	2261.1	2294.2
27.5°	2474.9	2479.6	2412.4	2304.6	2257.3	2266.7	2276.2	2269.6	2280.0	2308.4
30°	2618.7	2621.5	2536.4	2393.5	2326.3	2331.1	2333.0	2305.5	2285.7	2308.4
32.5°	2789.0	2788.0	2686.8	2501.4	2404.9	2400.1	2384.0	2330.1	2283.8	2303.6
35°	3052.9	3042.5	2911.9	2652.7	2493.8	2464.5	2426.6	2357.6	2293.2	2298.9
37.5°	3490.0	3457.8	3277.1	2900.6	2626.2	2551.5	2495.7	2402.0	2314.0	2297.0
40°	3982.9	3942.2	3743.5	3240.2	2824.9	2704.8	2614.9	2465.4	2348.1	2305.5
42.5°	4567.5	4509.8	4296.0	3640.4	3076.6	2902.5	2767.2	2545.8	2398.2	2333.0
45°	5285.6	5209.0	4906.2	4091.7	3393.5	3161.7	2981.0	2667.9	2474.9	2385.9
47.5°	6011.2	6030.1	5599.7	4608.2	3773.8	3481.5	3248.7	2851.4	2586.5	2471.1
50°	6782.2	6795.5	6289.3	5180.6	4205.2	3842.9	3549.6	3056.7	2741.7	2592.2
52.5°	7383.9	7385.8	6915.6	5779.4	4654.6	4240.2	3874.1	3291.3	2921.4	2753.0
55°	7760.5	7755.7	7354.6	6346.1	5171.1	4657.4	4233.6	3558.1	3140.9	2942.2
57.5°	8033.9	8019.7	7657.3	6833.3	5721.7	5150.3	4640.4	3860.8	3400.1	3167.4
60°	8137.9	8129.4	7862.6	7254.3	6300.7	5695.2	5109.6	4199.5	3694.3	3433.2
62.5°	8177.7	8193.7	8064.1	7662.1	6920.4	6298.8	5625.2	4604.4	4025.4	3734.1
65°	8317.7	8347.0	8320.5	8195.6	7620.4	7005.5	6309.2	5086.0	4386.8	4056.7
67.5°	8594.9	8624.2	8635.5	8834.2	8475.7	7886.3	7162.5	5685.8	4809.7	4391.6
70°	8588.2	8579.7	8780.3	9342.2	9546.6	9105.7	8312.9	6423.7	5314.0	4669.7
72.5°	7817.2	7749.1	8223.1	9336.6	10437.8	10379.1	9717.8	7375.4	5749.1	4703.8
75°	5864.6	5682.9	6520.2	8414.2	10586.3	11101.9	10610.9	7965.7	5646.0	4156.0
77.5°	2508.0	2325.4	3312.1	6228.8	9474.7	10378.2	9791.6	6949.7	4507.0	2748.3
80°	656.6	655.6	1000.9	2824.0	6443.5	7664.0	6723.6	4488.1	2575.1	982.0
82.5°	271.5	264.9	368.0	1098.4	3148.5	4300.7	3509.8	2001.8	930.0	265.8
85°	101.2	100.3	178.8	379.4	1110.7	1773.8	1283.8	511.8	231.8	129.6
87.5°	28.4	27.4	38.8	131.5	270.6	410.6	219.5	84.2	65.3	51.1
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°
2039.7	0°	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7	2039.7
2043.5	2.5°	2046.3	2051.0	2059.6	2066.2	2074.7	2084.1	2097.4	2105.9	2114.4	2120.1
2048.2	5°	2054.8	2065.2	2087.0	2108.7	2134.3	2157.9	2185.4	2205.2	2221.3	2226.1
2065.2	7.5°	2073.7	2090.8	2127.7	2164.6	2205.2	2244.0	2283.8	2317.8	2345.3	2355.7
2095.5	10°	2106.9	2129.6	2181.6	2233.6	2287.5	2347.2	2398.2	2447.4	2486.2	2502.3
2131.5	12.5°	2148.5	2176.9	2245.0	2316.9	2391.6	2473.9	2540.1	2600.7	2648.9	2670.7
2181.6	15°	2202.4	2239.3	2326.3	2422.8	2532.6	2647.0	2731.2	2798.4	2852.3	2878.8
2233.6	17.5°	2261.1	2310.3	2420.0	2565.7	2722.7	2873.2	2971.5	3020.7	3076.6	3102.1
2281.9	20°	2317.8	2378.4	2535.4	2747.3	2956.4	3116.3	3195.8	3209.0	3212.8	3215.6
2327.3	22.5°	2376.5	2457.8	2680.2	2976.3	3200.5	3311.2	3322.5	3265.8	3186.3	3149.4
2371.7	25°	2440.8	2548.7	2869.4	3228.9	3410.5	3423.8	3336.7	3198.6	3048.2	2979.1
2407.7	27.5°	2503.2	2653.7	3096.4	3470.1	3561.9	3445.5	3258.2	3062.4	2880.7	2807.9
2433.2	30°	2565.7	2773.8	3347.1	3681.1	3630.9	3391.6	3134.3	2915.7	2733.1	2656.5
2455.9	32.5°	2629.1	2913.8	3635.7	3833.4	3618.6	3277.1	2980.1	2751.1	2590.3	2509.9
2475.8	35°	2701.0	3086.0	3909.1	3916.6	3536.3	3108.7	2776.7	2554.3	2414.3	2350.0
2499.5	37.5°	2794.6	3304.6	4150.3	3937.5	3392.5	2861.8	2524.1	2321.6	2206.2	2176.9
2534.5	40°	2911.0	3567.6	4334.8	3904.4	3179.7	2561.9	2247.8	2086.0	2020.8	2027.4
2581.8	42.5°	3062.4	3861.8	4464.4	3819.2	2883.6	2252.5	2005.6	1933.7	1964.9	1991.4
2652.7	45°	3259.1	4167.4	4544.8	3674.5	2548.7	1990.5	1862.8	1879.8	1903.5	1906.3
2767.2	47.5°	3510.8	4476.7	4597.8	3455.9	2207.1	1806.0	1772.0	1775.7	1771.0	1751.1
2938.4	50°	3824.9	4777.6	4645.1	3166.4	1916.7	1690.6	1645.2	1631.9	1566.7	1502.3
3166.4	52.5°	4182.5	5053.8	4665.0	2806.9	1690.6	1594.1	1520.3	1437.1	1315.0	1295.1
3453.1	55°	4579.8	5309.2	4613.9	2365.1	1500.4	1470.2	1358.5	1258.2	1245.0	1228.0
3830.6	57.5°	5054.7	5584.5	4509.8	1872.2	1305.5	1325.4	1216.6	1228.0	1204.3	1177.8
4315.9	60°	5574.1	5869.3	4327.2	1422.9	1104.0	1144.7	1179.7	1178.8	1172.2	1150.4
4827.7	62.5°	6041.5	6056.6	3967.7	1089.9	927.1	1004.7	1100.3	1099.3	1093.6	1081.3
5362.2	65°	6319.6	6028.2	3367.9	858.1	781.4	889.3	992.4	1000.0	1000.9	1000.0
5764.3	67.5°	6270.4	5696.2	2544.9	683.0	661.3	772.0	885.5	895.9	903.5	905.4
5815.4	70°	5714.1	4966.8	1659.4	544.9	554.4	668.9	784.3	794.7	801.3	808.9
5046.2	72.5°	4454.0	3651.8	949.8	440.9	460.7	579.9	684.0	696.3	700.1	714.3
3511.7	75°	2714.2	2147.5	512.8	347.2	378.4	495.7	584.7	598.8	605.5	622.5
1724.6	77.5°	1290.4	930.0	292.3	270.6	304.6	404.9	493.8	509.9	491.9	501.4
475.9	80°	436.1	345.3	184.5	206.2	232.7	316.0	395.4	411.5	373.7	371.8
158.0	82.5°	152.3	140.0	117.3	137.2	150.4	226.1	299.0	319.8	278.1	277.2
71.0	85°	59.6	56.8	65.3	74.7	89.9	139.1	196.8	207.2	171.2	138.1
20.8	87.5°	12.3	13.2	16.1	17.0	27.4	48.2	71.0	87.0	69.1	58.7
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>
2039.7
2116.3
2227.9
2356.6
2503.2
2670.7
2876.9
3101.2
3223.2
3159.8
2989.5
2816.4
2665.0
2520.3
2364.2
2197.7
2050.1
2016.0
1925.2
1766.3
1510.8
1301.8
1230.8
1173.1
1142.8
1076.6
1000.0
907.3
812.7
719.9
624.4
493.8
368.0
263.9
136.2
53.9
0.0

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