

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: P940997

Luminaire Tested: **GALN-SB4B-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19638 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

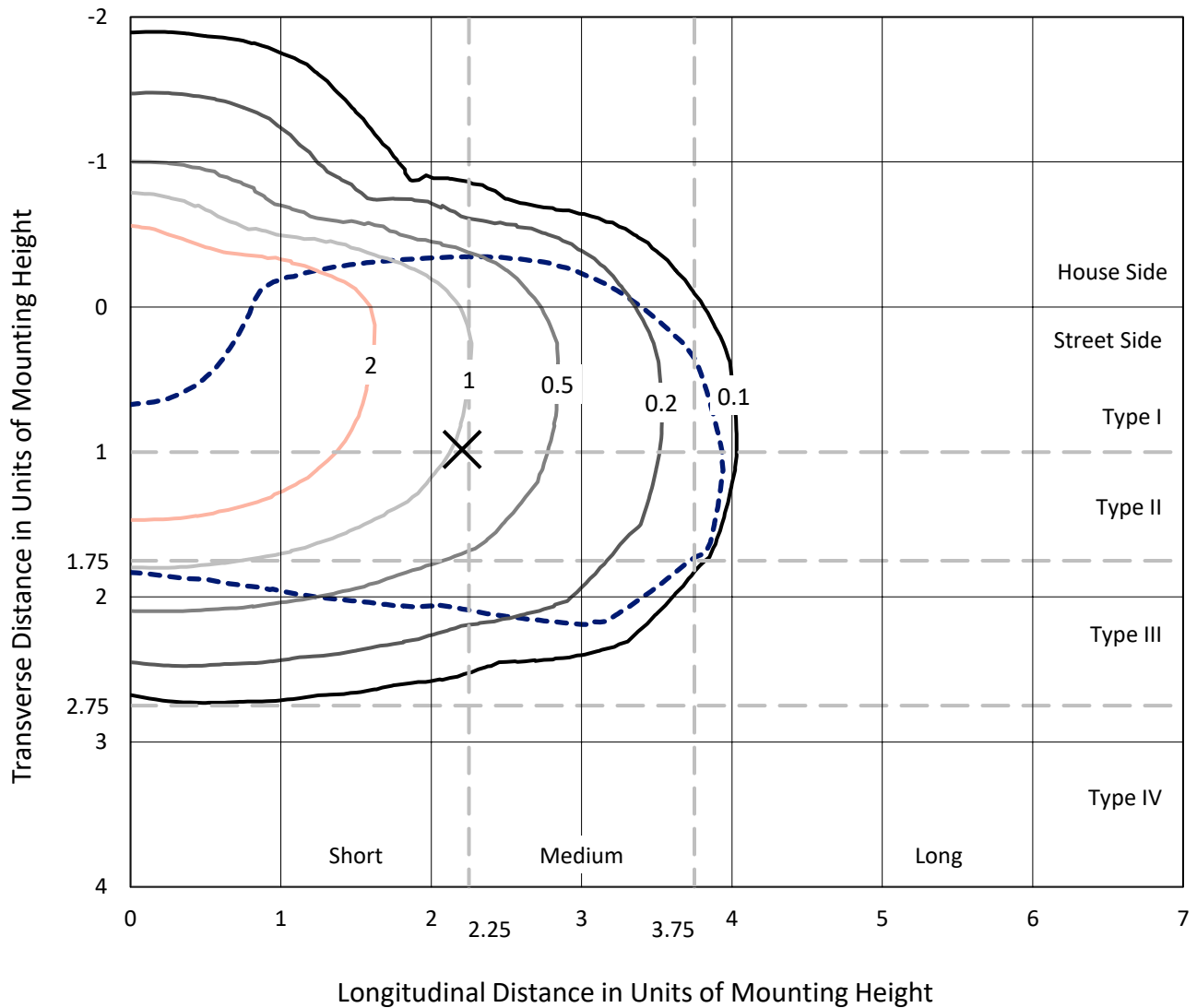
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

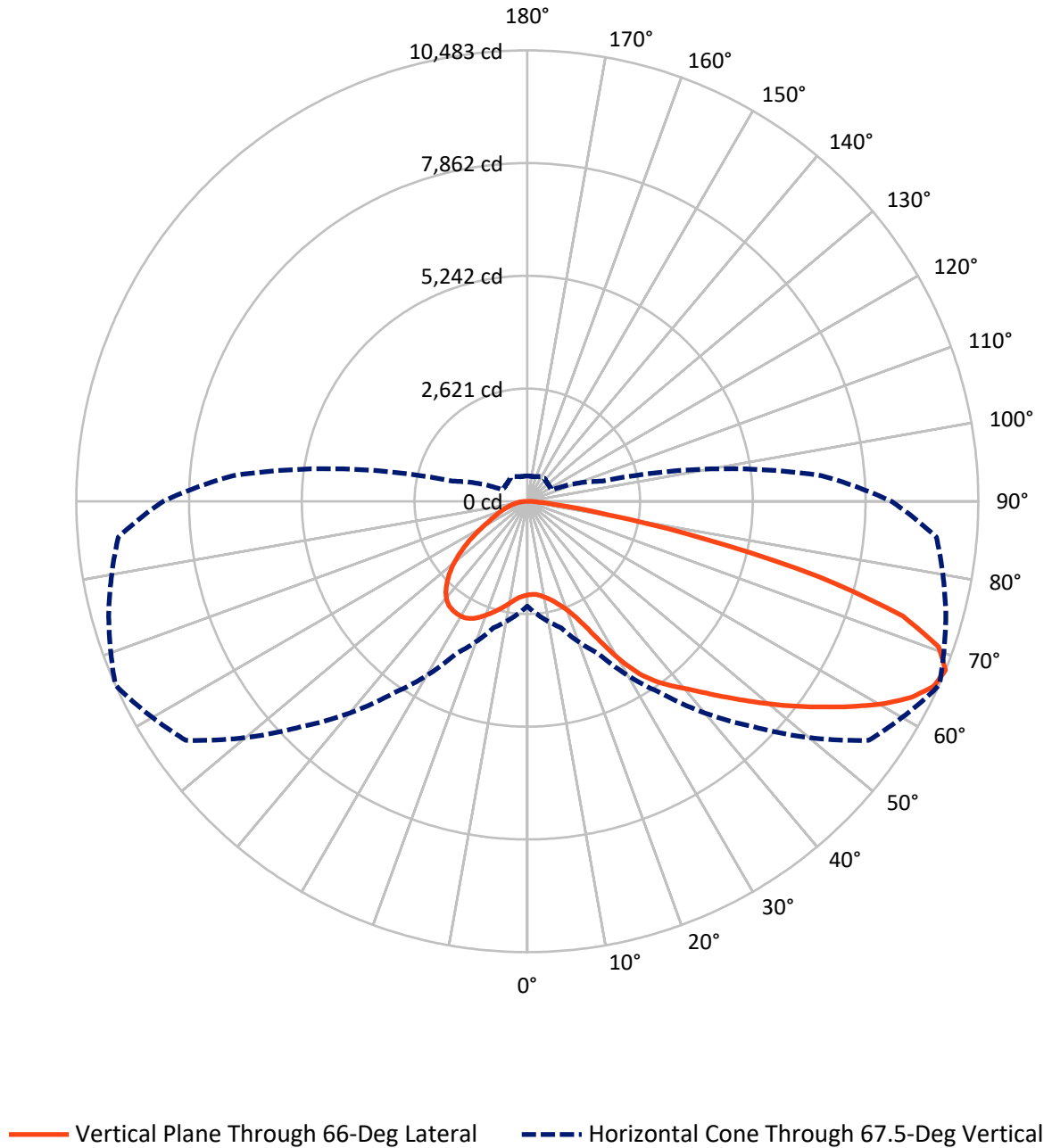
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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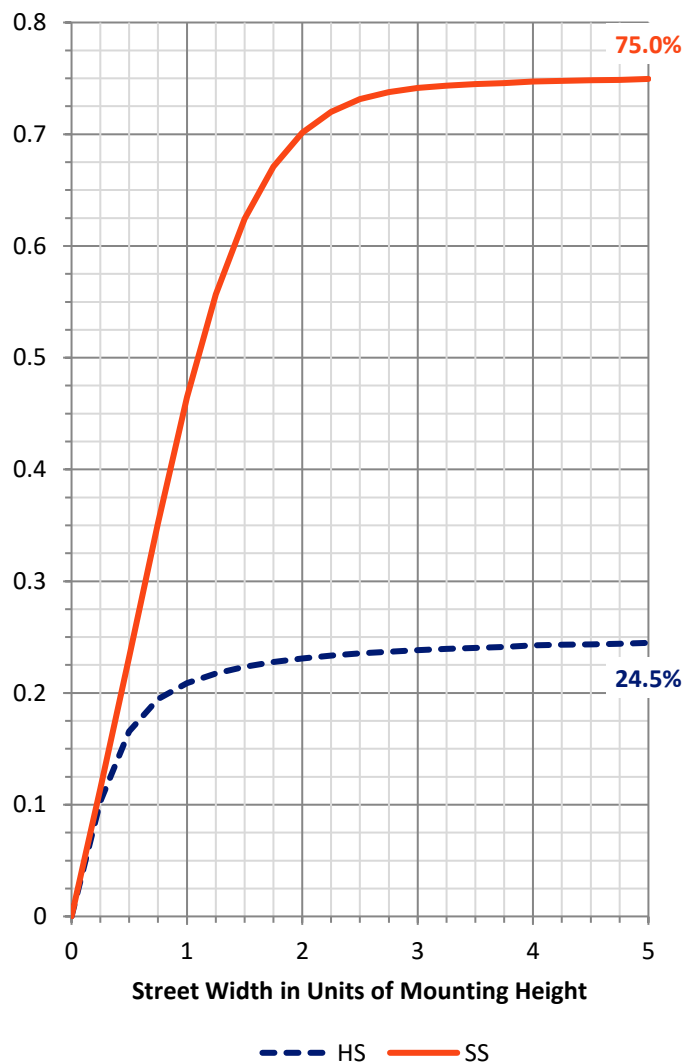
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4882.9	0.0	4882.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	14755.1	0.0	14755.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	19638.0	0.0	19638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	1.1
10°-20°	713.5	3.6
20°-30°	1375.2	7.0
30°-40°	2411.2	12.3
40°-50°	3584.7	18.3
50°-60°	4543.9	23.1
60°-70°	4446.1	22.6
70°-80°	2120.8	10.8
80°-90°	226.7	1.2
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°	19638.0	100.0
0°-180°	19638.0	100.0

Coefficient of Utilization



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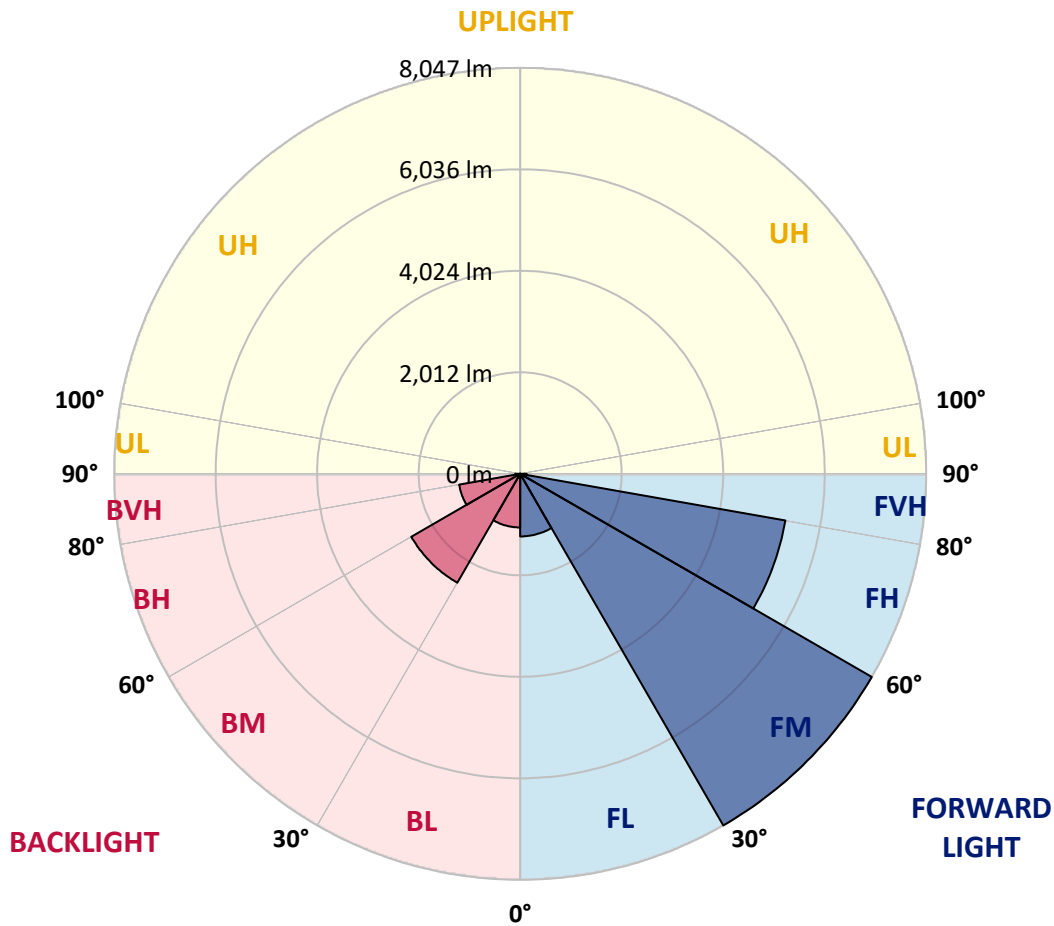
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1240.9	6.3			
FM (30°-60°)	8047.5	41.0			
FH (60°-80°)	5338.1	27.2			G3/7500
FVH (80°-90°)	128.5	0.7			G2/225
BL (0°-30°)	1063.7	5.4	B3/2500		
BM (30°-60°)	2492.3	12.7	B2/2500		
BH (60°-80°)	1228.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	98.2	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1
2.5°	2155.4	2167.8	2164.7	2159.5	2158.5	2160.6	2163.7	2166.8	2165.7	2170.9
5°	2149.2	2161.6	2160.6	2160.6	2164.7	2173.0	2178.1	2183.3	2178.1	2184.3
7.5°	2153.4	2162.6	2166.8	2170.9	2181.2	2196.7	2209.1	2220.4	2214.2	2221.4
10°	2206.0	2213.2	2217.3	2217.3	2224.5	2242.1	2254.5	2275.1	2269.9	2281.3
12.5°	2301.9	2309.2	2309.2	2305.0	2310.2	2321.5	2325.7	2348.4	2339.1	2357.6
15°	2419.6	2434.0	2422.6	2415.4	2417.5	2428.8	2427.8	2445.3	2436.1	2451.5
17.5°	2549.6	2568.1	2549.6	2548.5	2544.4	2556.8	2557.8	2573.3	2556.8	2568.1
20°	2703.3	2729.1	2713.6	2718.8	2709.5	2714.6	2719.8	2742.5	2716.7	2725.0
22.5°	2920.0	2950.9	2934.4	2954.0	2947.8	2943.7	2942.7	2982.9	2942.7	2945.8
25°	3235.7	3272.8	3244.0	3270.8	3270.8	3284.2	3299.7	3351.3	3284.2	3264.6
27.5°	3702.1	3739.2	3682.5	3699.0	3693.8	3726.8	3710.3	3838.3	3766.0	3734.1
30°	4263.4	4329.4	4222.1	4218.0	4212.8	4265.4	4289.2	4373.8	4300.5	4268.5
32.5°	4870.1	4939.2	4811.2	4774.1	4754.5	4786.5	4766.9	4835.0	4784.4	4734.9
35°	5511.8	5579.9	5458.2	5386.0	5307.5	5240.5	5170.3	5187.9	5140.4	5065.1
37.5°	6118.5	6243.4	6114.4	6037.0	5892.6	5761.5	5565.5	5484.0	5439.6	5370.5
40°	6736.6	6807.8	6709.7	6643.7	6486.9	6281.6	5967.9	5795.6	5735.7	5668.7
42.5°	7191.6	7259.7	7207.1	7161.7	7038.9	6800.5	6395.0	6179.4	6092.7	6017.4
45°	7552.7	7603.3	7570.3	7586.8	7534.1	7303.0	6837.7	6591.1	6501.3	6409.5
47.5°	7698.2	7751.9	7804.5	7902.5	7992.3	7822.0	7313.3	7036.8	6941.9	6848.0
50°	7681.7	7736.4	7889.1	8097.5	8376.1	8319.3	7814.8	7511.4	7423.7	7316.4
52.5°	7549.6	7611.5	7807.6	8154.3	8597.9	8691.8	8325.5	8001.5	7919.0	7791.1
55°	7202.9	7240.1	7534.1	8025.3	8650.5	8951.8	8826.0	8523.6	8441.1	8262.6
57.5°	6560.1	6613.8	7042.0	7677.6	8518.5	9128.3	9265.5	9072.6	8993.1	8736.2
60°	5721.3	5806.9	6297.0	7093.6	8182.1	9127.2	9664.8	9612.2	9546.1	9202.6
62.5°	4772.0	4871.1	5342.6	6268.1	7594.0	8868.3	9914.5	10064.1	10030.1	9632.8
65°	3664.9	3733.0	4202.5	5200.2	6678.8	8312.1	9943.4	10372.6	10378.8	9959.9
67.5°	2440.2	2636.2	3043.8	3902.2	5453.0	7403.1	9689.6	10423.2	10483.0	10072.4
70°	1190.7	1448.6	1847.9	2536.1	3902.2	6009.2	9026.1	10008.4	10141.5	9744.2
72.5°	494.2	577.8	795.5	1251.6	2240.0	4054.9	7693.0	8883.7	9130.3	8634.0
75°	333.3	361.1	455.0	641.8	1020.4	1999.6	5547.9	6624.1	7021.3	6520.9
77.5°	256.9	274.5	331.2	448.8	606.7	756.3	2969.5	3992.0	4197.3	3885.7
80°	202.2	215.6	247.6	327.1	430.3	404.5	1012.2	1808.7	1927.4	1616.8
82.5°	175.4	180.6	177.5	221.8	285.8	236.3	332.2	667.6	736.7	534.5
85°	126.9	141.4	147.5	137.2	151.7	119.7	136.2	236.3	260.0	232.2
87.5°	51.6	76.4	93.9	88.7	55.7	34.0	42.3	69.1	79.4	86.7
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°
2178.1	0°	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1
2179.1	2.5°	2180.2	2187.4	2192.6	2198.7	2202.9	2209.1	2221.4	2228.7	2229.7	2234.9
2195.7	5°	2199.8	2210.1	2221.4	2238.0	2256.5	2272.0	2295.7	2312.2	2318.4	2323.6
2235.9	7.5°	2242.1	2256.5	2277.2	2306.1	2332.9	2353.5	2382.4	2402.0	2421.6	2428.8
2299.9	10°	2305.0	2325.7	2355.6	2394.8	2423.7	2450.5	2480.4	2496.9	2516.5	2524.8
2376.2	12.5°	2383.4	2405.1	2444.3	2499.0	2525.8	2544.4	2554.7	2550.6	2554.7	2561.9
2468.0	15°	2473.2	2496.9	2541.3	2600.1	2618.7	2602.2	2579.5	2558.8	2555.7	2557.8
2579.5	17.5°	2579.5	2597.0	2648.6	2698.1	2684.7	2616.6	2567.1	2534.1	2517.6	2512.4
2721.9	20°	2728.1	2728.1	2770.4	2801.3	2711.6	2596.0	2518.6	2465.0	2430.9	2416.5
2915.8	22.5°	2908.6	2892.1	2918.9	2897.3	2706.4	2538.2	2430.9	2338.0	2286.5	2265.8
3187.2	25°	3137.7	3118.1	3110.9	2976.7	2669.2	2446.4	2272.0	2159.5	2114.1	2102.8
3578.3	27.5°	3483.3	3433.8	3339.9	3020.1	2601.1	2301.9	2086.3	1982.1	1956.3	1957.3
4080.7	30°	3943.5	3844.5	3614.4	3027.3	2489.7	2097.6	1896.4	1822.1	1809.8	1814.9
4502.7	32.5°	4369.6	4275.7	3895.0	2994.3	2318.4	1897.5	1726.2	1676.7	1658.1	1664.3
4824.7	35°	4703.9	4678.1	4155.0	2947.8	2108.0	1709.7	1573.5	1531.2	1495.1	1486.8
5128.0	37.5°	5019.7	5009.4	4350.0	2882.8	1899.5	1576.6	1450.7	1395.0	1342.4	1313.5
5463.3	40°	5366.4	5356.0	4478.0	2782.7	1714.8	1461.0	1340.3	1267.0	1202.0	1149.4
5843.0	42.5°	5756.4	5695.5	4538.9	2639.3	1558.0	1363.0	1250.5	1151.5	1065.8	1017.3
6272.3	45°	6182.5	6045.3	4537.8	2456.7	1425.9	1273.2	1154.6	1014.3	934.8	889.4
6712.8	47.5°	6634.4	6379.6	4482.1	2254.5	1298.0	1174.2	1006.0	898.7	846.1	818.2
7191.6	50°	7100.8	6692.2	4387.2	2022.3	1167.0	1061.7	913.1	839.9	799.6	773.8
7666.2	52.5°	7539.3	6975.9	4272.7	1759.2	1033.9	952.3	871.9	815.1	772.8	743.9
8126.4	55°	7946.9	7220.5	4110.7	1489.9	925.5	879.1	852.3	804.8	756.3	722.3
8593.8	57.5°	8309.0	7379.4	3831.0	1237.1	848.1	828.5	831.6	787.3	731.5	702.7
9054.0	60°	8610.3	7496.0	3417.3	1002.9	785.2	779.0	799.6	754.2	689.2	656.2
9443.0	62.5°	8790.9	7493.9	2909.7	821.3	731.5	733.6	757.3	713.0	646.9	616.0
9646.2	65°	8775.4	7310.2	2352.5	702.7	680.0	682.0	713.0	667.6	611.9	593.3
9544.1	67.5°	8464.8	6862.5	1804.6	625.3	623.2	632.5	668.6	636.6	590.2	588.1
8935.3	70°	7623.9	5932.8	1300.1	563.4	564.4	577.8	625.3	617.0	578.8	583.0
7512.5	72.5°	6113.4	4523.4	872.9	498.4	499.4	521.1	584.0	601.5	567.5	622.2
5330.2	75°	4071.5	2820.9	561.3	429.2	430.3	458.1	547.9	571.6	536.5	620.1
2773.5	77.5°	1956.3	1268.1	406.5	361.1	361.1	386.9	473.6	511.8	457.1	481.8
891.5	80°	675.8	476.7	319.9	291.0	284.8	302.3	399.3	443.7	394.1	363.2
291.0	82.5°	266.2	247.6	256.9	226.0	205.3	216.7	310.6	366.3	289.9	262.1
164.1	85°	152.7	161.0	181.6	149.6	118.7	133.1	228.0	263.1	218.7	192.9
53.7	87.5°	41.3	56.7	83.6	77.4	53.7	56.7	108.3	145.5	125.9	97.0
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>
2178.1
2233.8
2322.6
2429.9
2528.9
2564.0
2565.0
2519.6
2413.4
2262.7
2104.9
1960.4
1832.5
1672.5
1493.0
1314.5
1154.6
1020.4
887.3
812.0
764.6
731.5
708.8
684.1
641.8
606.7
592.2
591.2
581.9
630.4
625.3
441.6
340.5
261.0
197.1
100.1
0.0

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