

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: P955176

Luminaire Tested: **GALN-SB8A-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25701 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

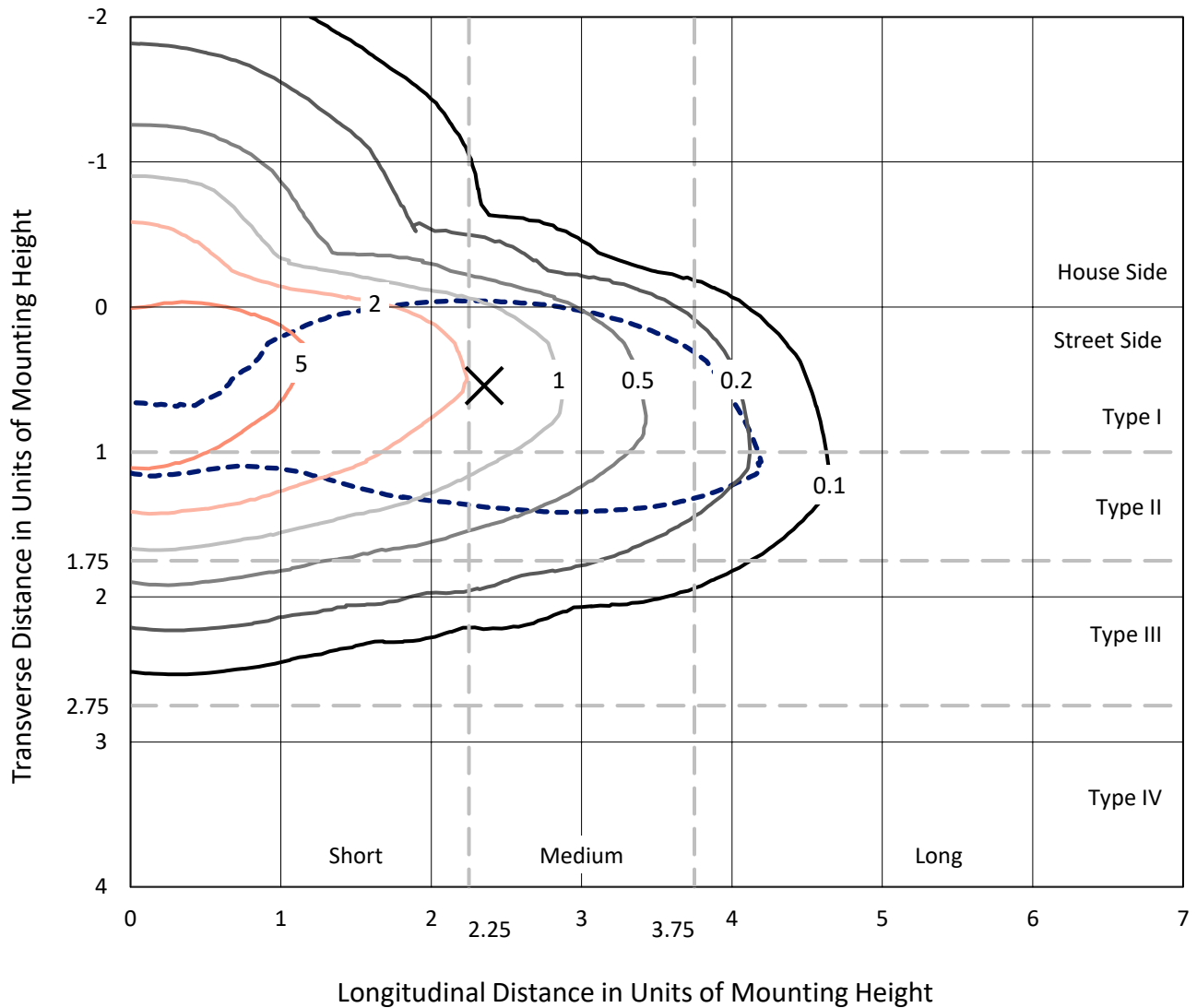
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

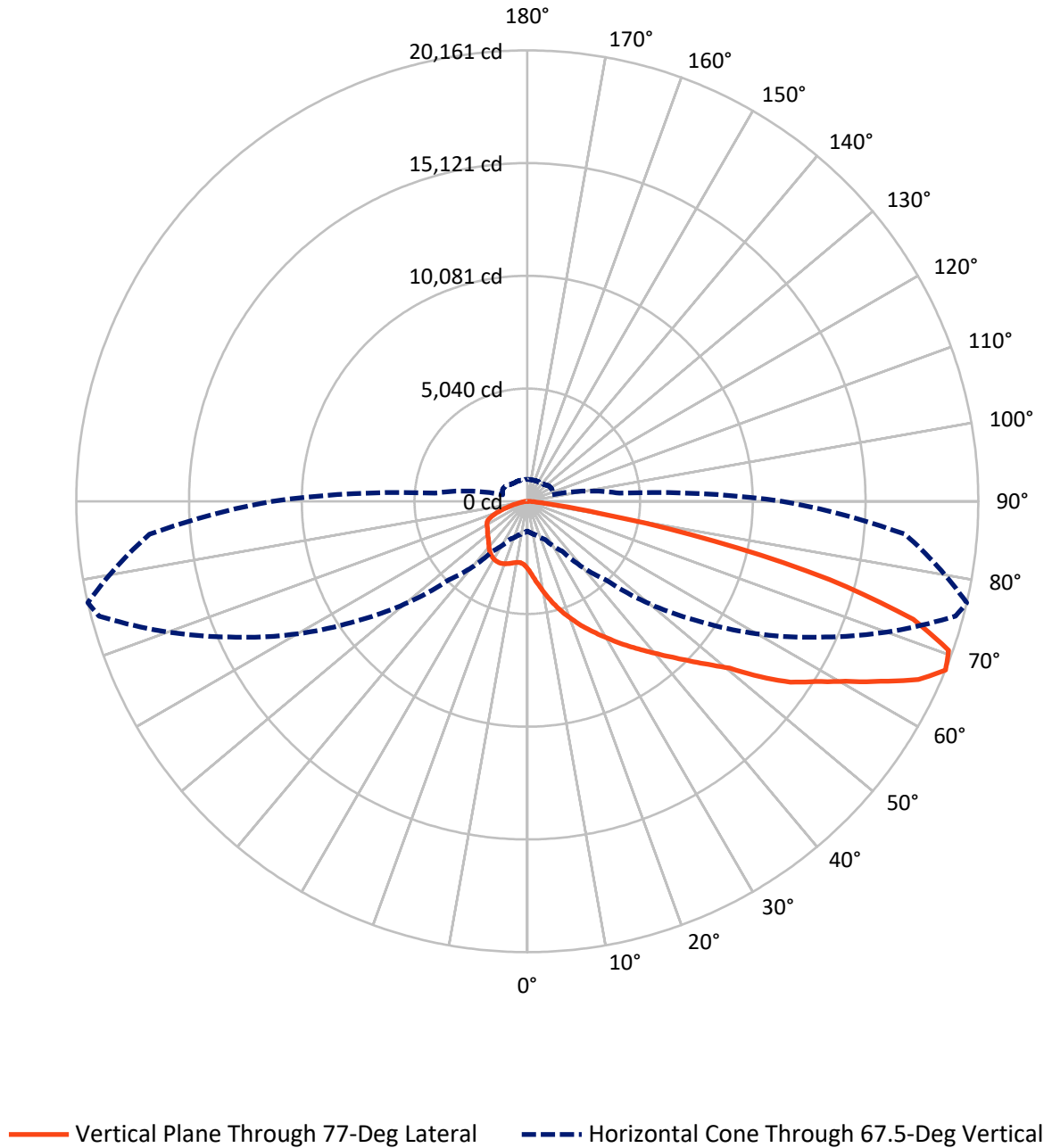
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4861.6	0.0	4861.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20839.4	0.0	20839.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	25701.0	0.0	25701.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	1.3
10°-20°	1161.2	4.5
20°-30°	2192.5	8.5
30°-40°	3532.1	13.7
40°-50°	4831.2	18.8
50°-60°	5449.6	21.2
60°-70°	5086.6	19.8
70°-80°	2788.3	10.8
80°-90°	336.3	1.3
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°	25701.0	100.0
0°-180°	25701.0	100.0



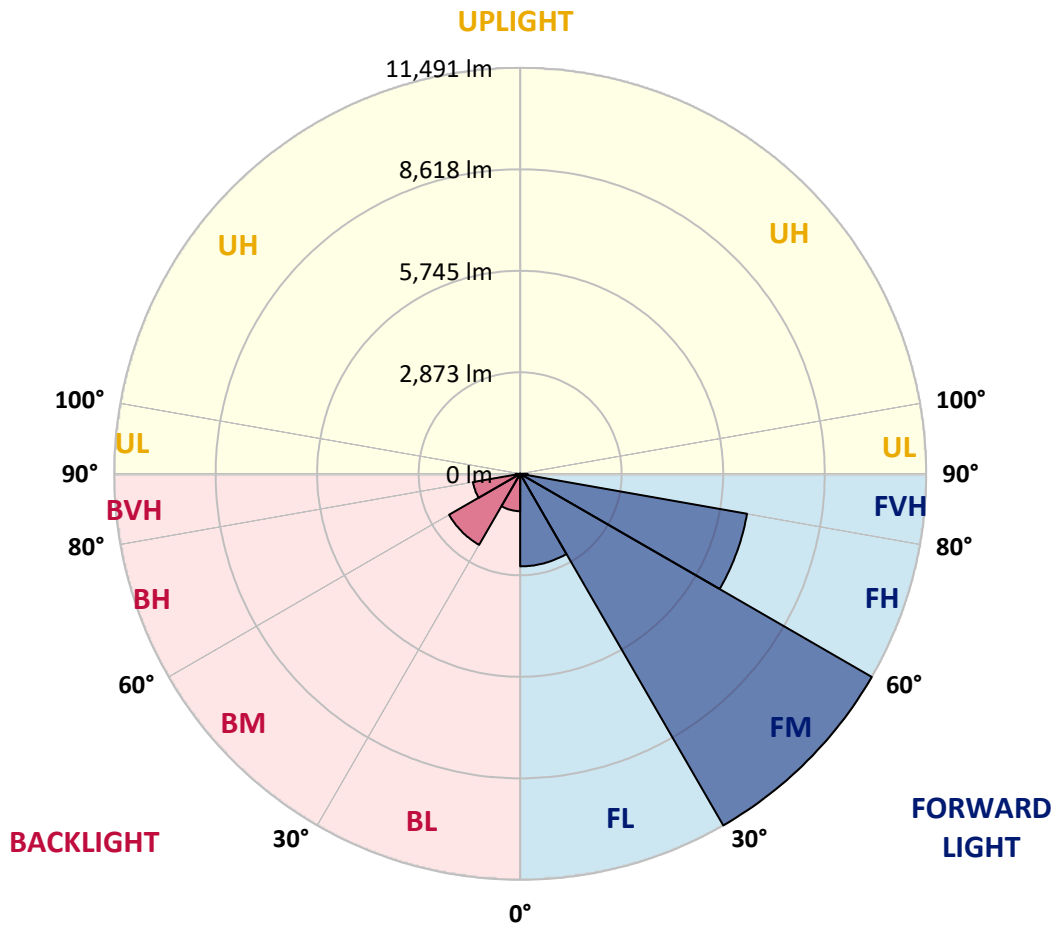
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.9	10.2			
FM (30°-60°)	11490.6	44.7			
FH (60°-80°)	6518.5	25.4			G3/7500
FVH (80°-90°)	210.3	0.8			G2/225
BL (0°-30°)	1057.0	4.1	B3/2500		
BM (30°-60°)	2322.3	9.0	B2/2500		
BH (60°-80°)	1356.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	126.0	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5
2.5°	3775.7	3802.2	3769.1	3769.1	3657.6	3599.3	3487.8	3402.9	3250.3	3223.8
5°	4462.9	4496.1	4449.7	4429.8	4298.4	4177.7	3990.6	3806.2	3534.3	3506.4
7.5°	4994.9	5037.4	4996.2	4975.0	4858.3	4723.0	4504.1	4246.7	3863.3	3808.9
10°	5428.7	5435.4	5422.1	5430.1	5338.5	5227.1	5002.9	4703.1	4224.1	4149.8
12.5°	5674.2	5704.7	5731.2	5779.0	5763.1	5694.1	5492.4	5134.2	4606.2	4510.7
15°	5789.6	5842.7	5902.4	6012.5	6101.4	6118.6	5964.7	5597.2	4994.9	4879.5
17.5°	5830.7	5881.1	5975.3	6134.5	6325.6	6454.3	6385.3	6047.0	5379.7	5247.0
20°	6039.0	6053.6	6110.7	6261.9	6468.9	6682.4	6734.2	6479.5	5760.4	5610.5
22.5°	6484.8	6455.6	6471.5	6540.5	6689.1	6896.0	7014.1	6861.5	6151.8	5979.3
25°	7221.1	7136.2	7051.3	6971.7	7047.3	7164.0	7298.0	7243.6	6561.7	6342.8
27.5°	8151.1	8047.6	7860.5	7599.2	7507.6	7548.8	7608.5	7597.9	6941.1	6719.6
30°	9066.5	8945.8	8722.9	8344.8	8103.3	7994.5	7949.4	7918.9	7353.7	7117.6
32.5°	9797.5	9702.0	9483.1	9059.8	8709.6	8523.9	8374.0	8265.2	7784.9	7548.8
35°	10436.9	10348.0	10097.3	9635.6	9254.9	9057.2	8860.8	8628.7	8233.3	7994.5
37.5°	11020.7	10931.8	10588.2	10107.9	9724.5	9587.9	9412.7	9018.7	8683.1	8457.5
40°	11389.5	11369.6	11048.5	10504.6	10106.6	10038.9	9980.6	9471.1	9181.9	8972.3
42.5°	11483.7	11527.5	11272.7	10825.6	10446.2	10391.8	10528.5	9983.2	9741.8	9541.4
45°	11256.8	11382.8	11215.7	10911.9	10687.7	10658.5	11014.0	10543.1	10361.3	10178.2
47.5°	10682.4	10896.0	10827.0	10784.5	10752.7	10878.7	11441.2	11137.4	11063.1	10903.9
50°	9522.9	9927.5	10048.2	10316.2	10624.0	11049.9	11829.9	11786.2	11883.0	11722.5
52.5°	7518.3	8075.5	8775.9	9447.2	10228.6	10992.8	12257.1	12717.5	13126.1	13038.5
55°	6206.2	6456.9	6995.5	8226.7	9461.8	10752.7	12449.5	13469.7	14359.9	14281.6
57.5°	5197.9	5422.1	5753.8	6781.9	8302.3	10207.4	12568.9	13928.7	15205.0	15197.0
60°	4116.7	4354.1	4693.8	5422.1	6947.8	9265.5	12542.4	14451.4	16283.6	16349.9
62.5°	2896.1	3157.5	3534.3	4213.5	5564.1	8044.9	12001.1	14829.5	17553.2	17733.6
65°	1903.8	2076.2	2360.1	2946.5	4145.9	6475.5	10967.6	14878.6	18911.7	19216.8
67.5°	1334.6	1401.0	1568.1	1886.5	2732.9	4965.7	9321.2	14370.5	19817.8	20161.4
70°	1041.4	1074.6	1159.5	1286.9	1716.7	3339.2	7142.8	13049.1	19624.1	19982.3
72.5°	899.5	931.3	963.2	979.1	1151.6	2061.6	4838.4	10910.6	17800.0	18042.7
75°	815.9	823.9	850.4	845.1	878.3	1337.3	2792.6	7949.4	14044.2	13960.6
77.5°	685.9	696.5	740.3	733.6	780.1	914.1	1450.1	5130.2	9105.0	8537.1
80°	581.1	586.4	634.1	626.2	677.9	662.0	740.3	2614.9	3861.9	3271.6
82.5°	201.7	249.4	484.2	498.8	517.4	400.7	427.2	1066.6	1179.4	903.5
85°	98.2	104.8	246.8	350.2	348.9	201.7	208.3	380.8	371.5	291.9
87.5°	15.9	19.9	29.2	136.6	108.8	53.1	71.6	74.3	76.9	66.3
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°
3015.5	0°	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5	3015.5
3123.0	2.5°	3048.7	2982.4	2843.1	2714.4	2613.5	2516.7	2462.3	2415.9	2389.3	2384.0
3268.9	5°	3130.9	2994.3	2740.9	2527.3	2388.0	2284.5	2230.1	2195.6	2178.4	2167.8
3465.3	7.5°	3249.0	3048.7	2687.8	2445.1	2299.1	2224.8	2197.0	2191.7	2190.3	2191.7
3702.7	10°	3412.2	3137.6	2682.5	2425.2	2303.1	2262.0	2260.6	2262.0	2267.3	2268.6
3961.4	12.5°	3588.6	3229.1	2703.8	2442.4	2353.5	2331.0	2327.0	2325.7	2329.6	2332.3
4222.8	15°	3781.0	3349.8	2739.6	2479.6	2409.2	2385.4	2381.4	2373.4	2372.1	2370.8
4497.4	17.5°	3978.7	3469.2	2779.4	2519.4	2445.1	2411.9	2397.3	2378.7	2364.1	2360.1
4781.3	20°	4179.0	3587.3	2807.2	2539.3	2447.7	2401.3	2372.1	2340.2	2315.0	2300.4
5067.9	22.5°	4392.6	3710.7	2824.5	2533.9	2423.8	2360.1	2307.1	2269.9	2231.5	2206.3
5357.1	25°	4600.9	3818.2	2823.2	2506.1	2377.4	2296.5	2228.8	2181.0	2128.0	2101.4
5655.6	27.5°	4801.2	3915.0	2790.0	2457.0	2311.1	2220.8	2139.9	2082.9	2031.1	2005.9
5956.8	30°	5008.2	3995.9	2738.3	2385.4	2232.8	2133.3	2044.4	1995.3	1948.9	1925.0
6275.2	32.5°	5213.8	4070.2	2665.3	2296.5	2142.6	2047.1	1959.5	1914.4	1886.5	1886.5
6617.4	35°	5431.4	4122.0	2568.4	2193.0	2047.1	1955.5	1886.5	1860.0	1857.3	1841.4
6979.6	37.5°	5660.9	4155.1	2450.4	2086.9	1952.9	1866.6	1845.4	1813.6	1787.0	1752.5
7377.6	40°	5902.4	4188.3	2308.4	1976.7	1853.4	1805.6	1796.3	1753.9	1678.2	1593.3
7828.7	42.5°	6195.6	4210.9	2161.1	1866.6	1748.6	1732.6	1745.9	1672.9	1552.2	1488.5
8372.6	45°	6535.2	4248.0	2025.8	1757.8	1641.1	1641.1	1696.8	1601.3	1501.8	1462.0
8993.5	47.5°	6975.6	4334.2	1899.8	1638.4	1541.6	1568.1	1588.0	1515.1	1459.3	1410.3
9749.7	50°	7612.4	4541.2	1769.8	1517.7	1466.0	1519.0	1491.2	1448.7	1383.7	1343.9
10951.7	52.5°	8403.1	4663.3	1654.4	1408.9	1401.0	1454.0	1414.2	1374.4	1325.3	1272.3
11863.1	55°	8941.8	4685.8	1557.5	1329.3	1357.2	1351.9	1337.3	1301.5	1274.9	1204.6
12762.6	57.5°	9544.1	4730.9	1477.9	1281.6	1329.3	1271.0	1265.6	1235.1	1200.6	1152.9
13859.7	60°	10264.5	4801.2	1408.9	1263.0	1305.4	1217.9	1191.4	1179.4	1144.9	1121.0
15179.8	62.5°	11049.9	4864.9	1338.6	1265.6	1277.6	1166.1	1126.3	1122.4	1101.1	1093.2
16418.9	65°	11585.8	4691.1	1251.1	1263.0	1233.8	1113.1	1062.7	1061.3	1044.1	1041.4
16956.2	67.5°	11398.8	4140.5	1133.0	1225.8	1188.7	1060.0	1004.3	999.0	976.4	977.8
16395.0	70°	10462.1	3355.2	969.8	1134.3	1133.0	1012.3	943.3	926.0	895.5	900.8
14255.1	72.5°	8705.6	2486.2	750.9	981.7	1044.1	968.5	873.0	845.1	806.6	811.9
10523.2	75°	6287.1	1690.2	546.6	746.9	908.8	916.7	804.0	756.2	709.8	717.7
5857.3	77.5°	3217.2	957.9	402.0	514.7	713.7	833.2	741.6	677.9	667.3	741.6
1688.9	80°	1049.4	480.3	278.6	360.9	468.3	681.9	650.1	577.1	574.4	591.7
354.2	82.5°	313.1	203.0	179.1	237.5	258.7	522.7	561.2	436.5	375.4	395.3
118.1	85°	107.5	98.2	102.2	118.1	123.4	306.5	392.7	289.2	273.3	301.2
26.5	87.5°	25.2	34.5	29.2	26.5	26.5	74.3	152.6	120.7	167.2	111.4
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>
3015.5
2384.0
2166.5
2195.6
2269.9
2333.6
2369.4
2364.1
2305.8
2207.6
2101.4
2004.6
1923.7
1887.9
1837.4
1747.2
1581.4
1489.9
1468.6
1408.9
1339.9
1261.7
1205.9
1137.0
1127.7
1093.2
1040.1
977.8
906.1
810.6
720.4
731.0
508.1
408.6
297.2
107.5
0.0

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