

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: P956425

Luminaire Tested: **GALN-SB9A-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37338 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

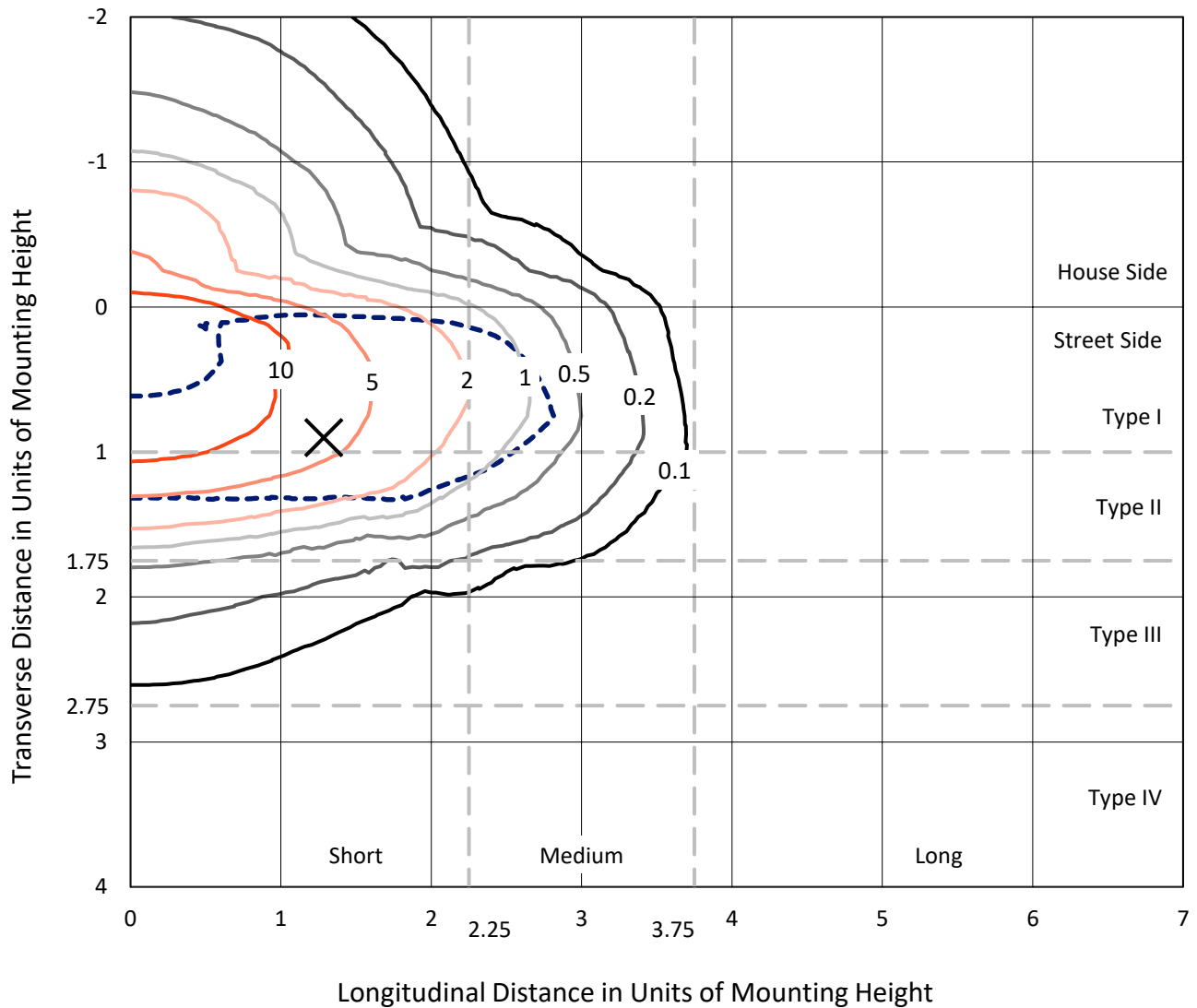
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

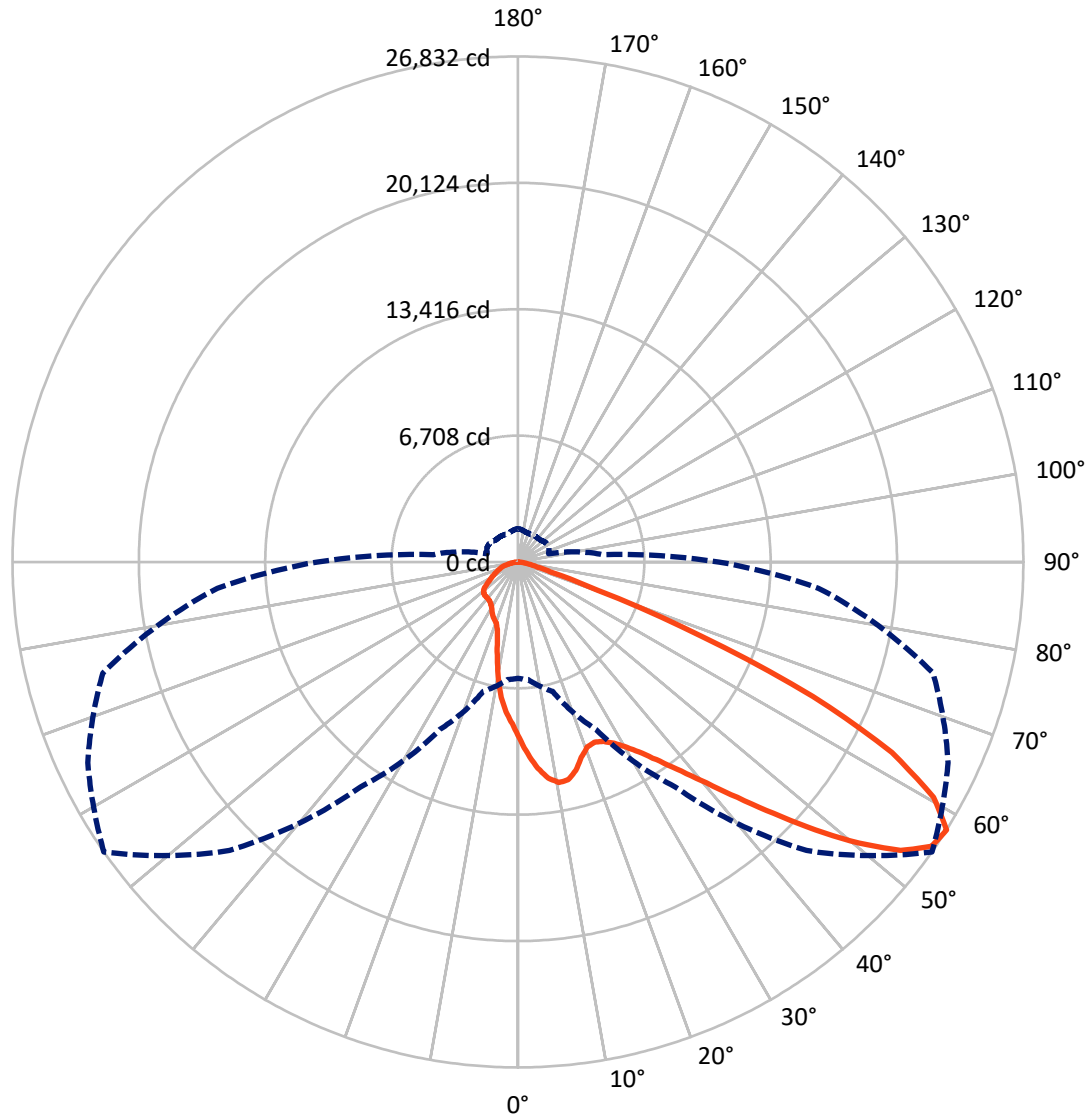
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6756.1	0.0	6756.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30581.9	0.0	30581.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	37338.0	0.0	37338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.1	2.3
10°-20°	2191.3	5.9
20°-30°	3496.6	9.4
30°-40°	5536.0	14.8
40°-50°	8473.4	22.7
50°-60°	9075.9	24.3
60°-70°	5709.7	15.3
70°-80°	1688.5	4.5
80°-90°	298.5	0.8
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°	37338.0	100.0
0°-180°	37338.0	100.0

Coefficient of Utilization



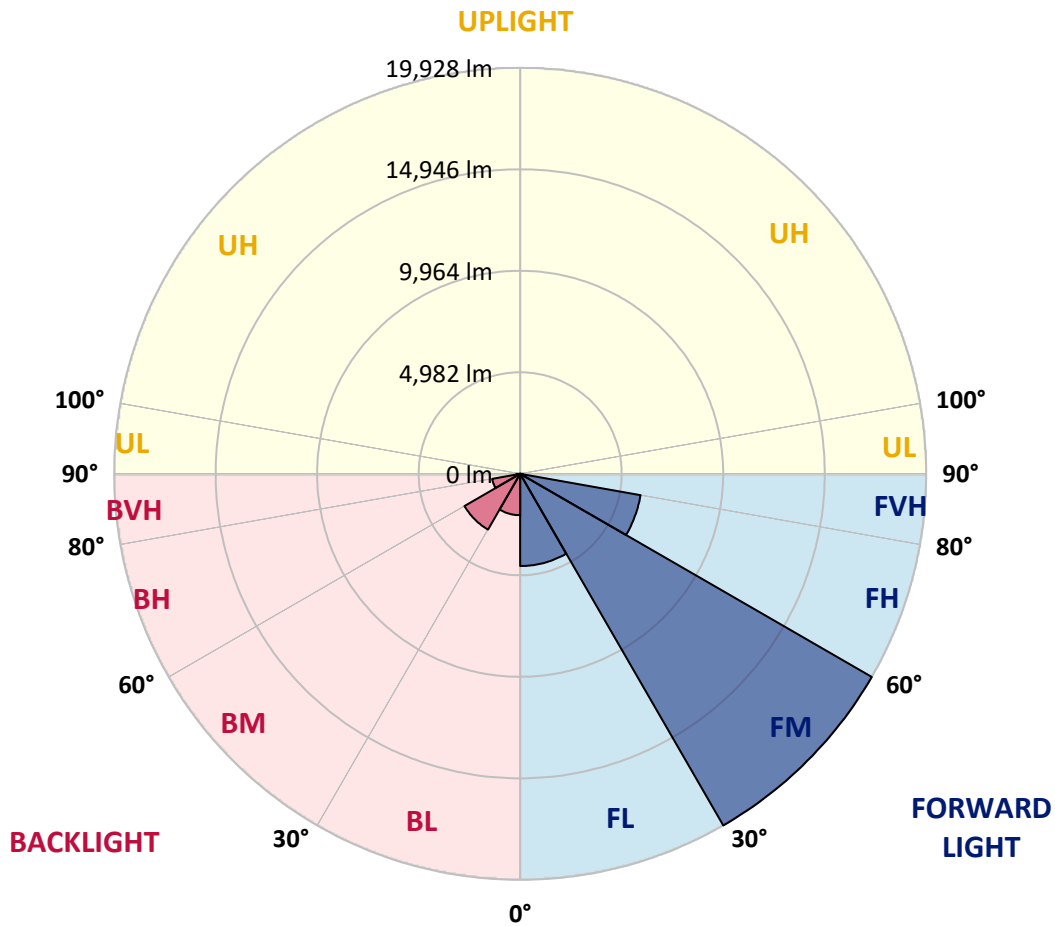
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4525.4	12.1			
FM (30°-60°)	19927.6	53.4			
FH (60°-80°)	6002.8	16.1			G3/7500
FVH (80°-90°)	126.1	0.3			G2/225
BL (0°-30°)	2030.7	5.4	B3/2500		
BM (30°-60°)	3157.8	8.5	B3/5000		
BH (60°-80°)	1395.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	172.4	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7
2.5°	10733.9	10726.1	10768.6	10623.8	10525.4	10392.2	10216.6	9992.7	9751.4	9496.6
5°	11700.9	11633.3	11677.7	11569.6	11461.5	11260.8	11000.2	10635.4	10189.5	9681.9
7.5°	11548.4	11502.1	11616.0	11712.5	11793.5	11768.4	11577.4	11195.2	10620.0	9882.6
10°	10318.9	10266.7	10427.0	10760.9	11251.1	11677.7	11909.3	11671.9	11060.1	10102.7
12.5°	9234.1	9209.0	9315.2	9585.4	10129.7	10948.1	11866.9	12088.9	11517.5	10363.3
15°	8770.8	8740.0	8807.5	8944.6	9292.0	10054.4	11480.8	12374.5	11967.3	10664.4
17.5°	8668.5	8633.8	8662.7	8734.2	8958.1	9539.1	10897.9	12515.4	12436.3	11000.2
20°	8857.7	8828.7	8832.6	8828.7	8985.1	9446.4	10492.6	12461.4	12845.5	11309.1
22.5°	9315.2	9266.9	9268.8	9166.5	9251.5	9608.5	10386.4	12316.6	13210.3	11579.3
25°	10060.2	9973.4	9990.7	9730.2	9707.0	9971.4	10552.4	12204.7	13573.2	11795.5
27.5°	11079.4	10980.9	10928.8	10540.8	10355.5	10486.8	10890.2	12243.3	13916.8	11982.7
30°	12353.3	12233.6	12127.5	11577.4	11241.5	11193.2	11415.2	12498.1	14322.1	12179.6
32.5°	13914.8	13775.9	13582.8	12853.2	12380.3	12127.5	12094.6	12951.7	14796.9	12430.5
35°	15773.6	15592.2	15318.1	14374.2	13775.9	13258.6	12990.3	13606.0	15447.4	12808.8
37.5°	17688.4	17483.8	17232.8	16109.5	15374.1	14611.6	14082.8	14493.9	16314.1	13322.3
40°	19454.5	19224.8	18991.3	17991.4	17202.0	16283.2	15420.4	15617.3	17373.8	13936.1
42.5°	20496.8	20327.0	20238.2	19697.7	19087.8	18155.5	17084.2	16949.1	18564.7	14642.5
45°	20450.5	20381.0	20655.1	20879.0	20734.2	20216.9	19033.7	18421.9	19759.5	15254.4
47.5°	19358.0	19404.3	20016.2	21274.7	21828.7	22098.9	21253.5	19867.6	20797.9	15711.8
50°	16385.5	16424.1	17840.9	20554.7	22110.5	23633.4	23455.8	21278.6	21602.8	15991.7
52.5°	14032.6	14057.7	14665.7	18419.9	21180.1	24405.5	25440.1	22608.5	22191.5	16068.9
55°	10569.8	10656.6	11338.0	14451.4	18759.6	23793.6	26648.4	23978.9	22564.1	16076.7
57.5°	6174.7	6269.3	7110.9	9809.3	14580.7	21660.7	26831.7	25194.9	22816.9	16014.9
60°	3024.6	3065.2	3431.9	5155.6	8990.9	17551.3	25357.1	25783.6	22957.8	15982.1
62.5°	2038.3	2032.5	2047.9	2544.0	4429.8	11276.2	22284.2	24752.9	22882.5	15856.6
65°	1752.6	1731.4	1673.5	1785.4	2295.0	5157.5	17217.4	21676.2	22309.3	15542.0
67.5°	1515.2	1517.1	1519.1	1484.3	1638.7	2379.9	10521.5	17074.6	20251.7	14051.9
70°	1254.6	1272.0	1279.7	1279.7	1335.7	1561.5	4491.6	11702.8	15974.4	11017.6
72.5°	1142.7	1106.0	1109.9	1090.6	1090.6	1189.0	1808.6	6634.1	10064.1	6197.9
75°	932.3	955.5	959.3	945.8	901.4	907.2	1073.2	2783.4	4306.3	2571.0
77.5°	804.9	804.9	812.6	803.0	768.2	679.4	716.1	1079.0	1465.0	1053.9
80°	646.6	644.7	677.5	696.8	642.8	501.9	457.5	596.4	650.5	463.2
82.5°	314.6	333.9	465.2	530.8	488.3	362.9	279.9	370.6	347.4	204.6
85°	183.4	173.7	208.5	295.3	279.9	200.7	135.1	193.0	181.4	104.2
87.5°	57.9	54.0	42.5	100.4	81.1	56.0	36.7	56.0	50.2	23.2
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
9355.7	0°	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7	9355.7
9386.6	2.5°	9249.5	9021.8	8795.9	8589.4	8463.9	8382.9	8301.8	8211.1	8176.3	8124.2
9411.7	5°	9156.9	8716.8	8325.0	7987.2	7680.3	7439.0	7195.8	6998.9	6910.1	6970.0
9490.8	7.5°	9102.8	8465.9	7861.7	7242.1	6645.7	6168.9	5753.9	5462.5	5331.2	5364.0
9568.0	10°	9054.6	8182.1	7261.4	6282.8	5425.8	4835.2	4410.5	4188.5	4105.5	4122.9
9672.2	12.5°	9010.2	7863.6	6537.6	5250.2	4339.1	3949.2	3827.6	3829.5	3845.0	3856.5
9838.2	15°	9002.5	7479.5	5728.8	4346.8	3752.3	3727.2	3858.5	3941.5	3985.9	3999.4
9977.2	17.5°	8990.9	7020.1	4904.6	3731.1	3609.5	3779.3	3900.9	3955.0	3989.7	3991.7
10112.3	20°	8944.6	6437.2	4144.1	3437.7	3578.6	3725.3	3800.6	3843.0	3872.0	3881.6
10214.6	22.5°	8801.7	5788.7	3551.6	3306.4	3455.1	3572.8	3661.6	3709.8	3727.2	3738.8
10233.9	25°	8545.0	5062.9	3142.4	3181.0	3283.3	3431.9	3503.3	3513.0	3507.2	3524.5
10185.7	27.5°	8209.2	4285.0	2887.6	3011.1	3142.4	3269.8	3308.4	3302.6	3291.0	3310.3
10102.7	30°	7803.8	3586.3	2725.4	2820.0	2999.5	3115.3	3150.1	3136.6	3113.4	3134.6
10060.2	32.5°	7375.3	3015.0	2592.3	2686.8	2881.8	2995.7	3030.4	3016.9	2999.5	3016.9
10108.5	35°	6975.8	2615.4	2468.7	2598.1	2789.1	2901.1	2945.5	2947.4	2947.4	2968.7
10235.9	37.5°	6609.0	2381.9	2366.4	2542.1	2725.4	2825.8	2889.5	2893.4	2810.4	2816.2
10452.0	40°	6269.3	2283.4	2320.1	2505.4	2663.7	2760.2	2764.0	2547.9	2395.4	2391.5
10699.1	42.5°	5991.3	2264.1	2333.6	2501.5	2619.3	2623.1	2351.0	2183.1	2140.6	2142.5
10926.9	45°	5730.8	2258.3	2364.5	2501.5	2553.7	2266.1	2082.7	2038.3	2042.2	2057.6
11029.2	47.5°	5439.3	2235.2	2370.3	2466.8	2364.5	2015.1	1961.1	1941.8	1934.1	1937.9
11006.0	50°	5120.8	2152.2	2296.9	2397.3	2040.2	1907.0	1839.5	1833.7	1843.3	1849.1
10876.7	52.5°	4785.0	2017.1	2171.5	2271.8	1891.6	1812.5	1737.2	1750.7	1793.2	1806.7
10741.6	55°	4564.9	1858.8	2005.5	2020.9	1787.4	1723.7	1660.0	1690.9	1770.0	1795.1
10660.5	57.5°	4507.0	1690.9	1816.3	1798.9	1654.2	1646.5	1607.9	1634.9	1735.3	1771.9
10656.6	60°	4489.7	1540.3	1631.0	1617.5	1524.9	1561.5	1551.9	1565.4	1600.1	1611.7
10618.0	62.5°	4354.5	1420.6	1465.0	1445.7	1409.0	1472.7	1495.9	1467.0	1494.0	1507.5
10353.6	65°	4011.0	1324.1	1302.9	1289.4	1304.8	1362.7	1409.0	1351.1	1376.2	1414.8
9334.5	67.5°	3443.5	1192.9	1135.0	1150.4	1198.7	1229.5	1289.4	1223.7	1245.0	1310.6
7518.1	70°	2785.3	1026.9	974.8	1019.1	1065.5	1129.2	1138.8	1094.4	1144.6	1218.0
4588.1	72.5°	1970.7	858.9	822.3	913.0	928.4	1011.4	990.2	969.0	1038.4	1063.5
2268.0	75°	1366.6	692.9	671.7	741.2	797.2	868.6	853.1	878.2	1024.9	1036.5
1133.0	77.5°	864.7	538.5	525.0	569.4	646.6	725.8	750.8	1036.5	1750.7	1820.2
588.7	80°	501.9	401.5	386.0	420.8	488.3	561.7	723.8	1272.0	1154.3	1140.7
264.4	82.5°	279.9	276.0	256.7	266.4	326.2	405.3	1023.0	895.6	727.7	750.8
106.2	85°	131.3	162.1	139.0	133.2	183.4	474.8	683.3	511.5	339.7	332.0
23.2	87.5°	34.7	30.9	30.9	34.7	77.2	409.2	272.2	218.1	129.3	125.5
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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