

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: P954282

Luminaire Tested: **GALN-SB7C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40804 lumens
Efficiency: N/A
Efficacy: 116.4 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

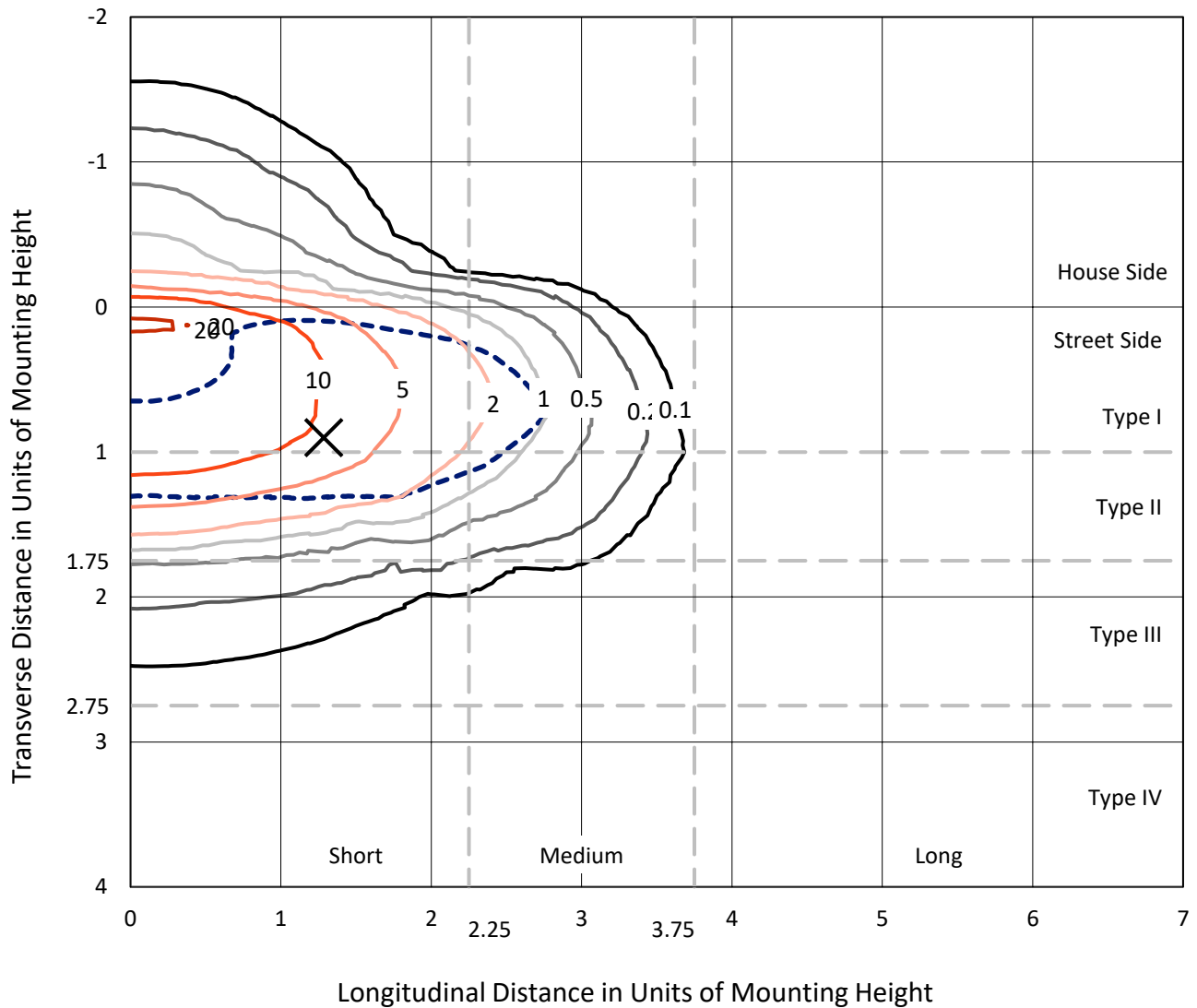
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

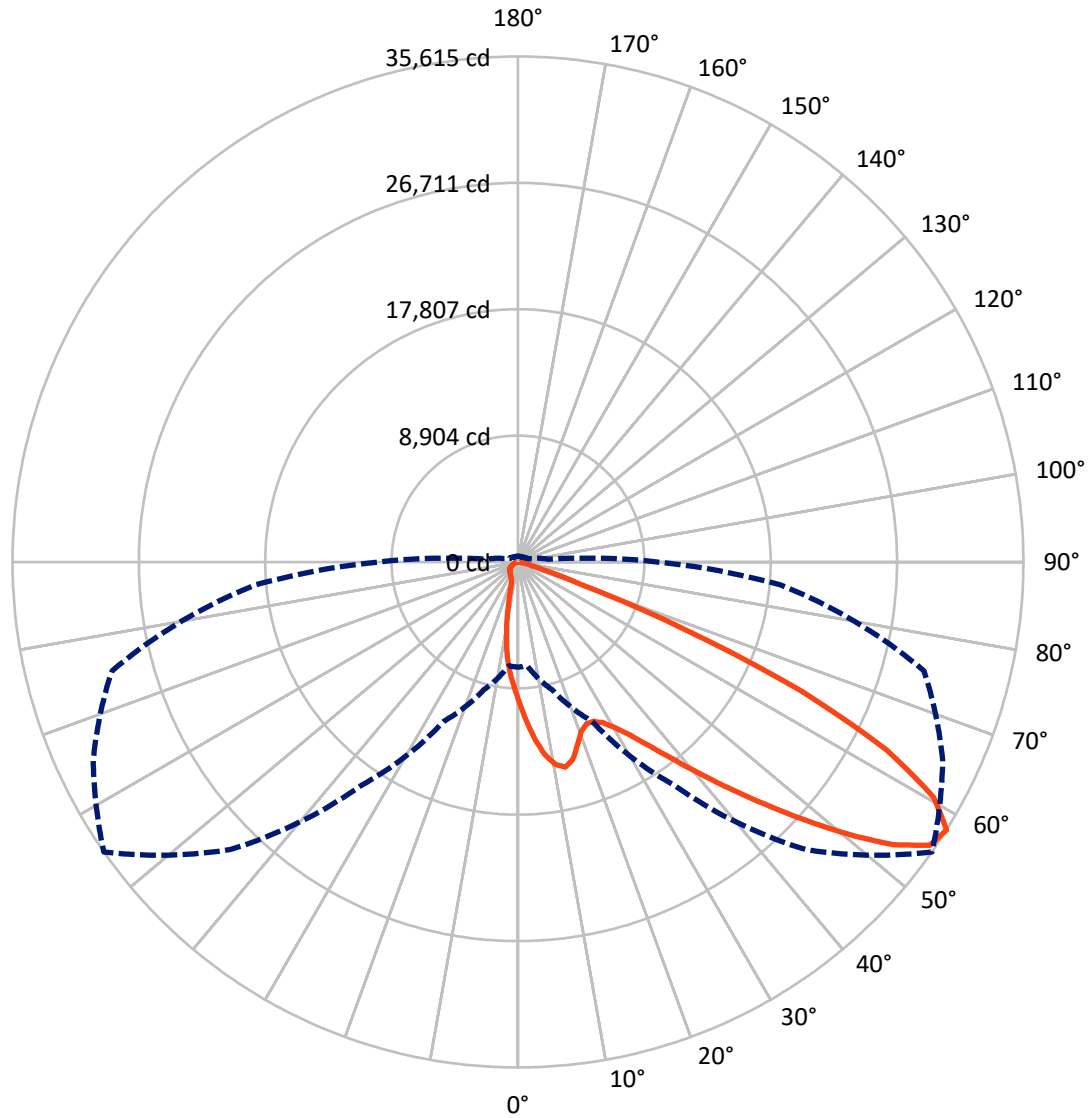
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 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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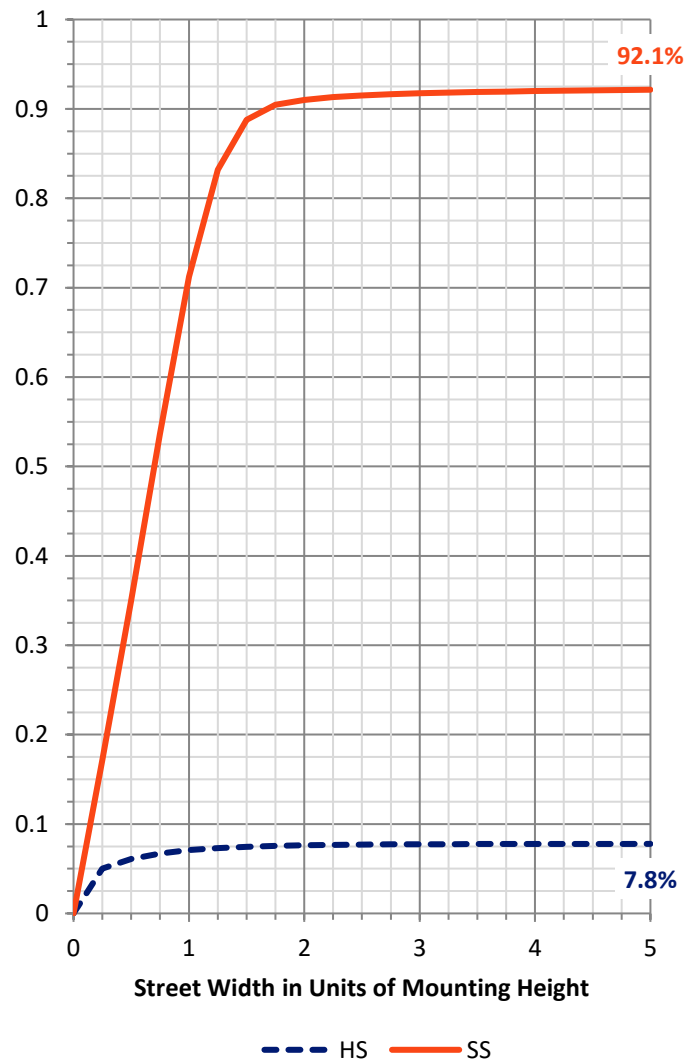
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3186.6	0.0	3186.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	37617.4	0.0	37617.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	40804.0	0.0	40804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.9	2.2
10°-20°	2209.9	5.4
20°-30°	3535.8	8.7
30°-40°	5984.6	14.7
40°-50°	9825.4	24.1
50°-60°	10798.8	26.5
60°-70°	6194.2	15.2
70°-80°	1265.7	3.1
80°-90°	74.7	0.2
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°	40804.0	100.0
0°-180°	40804.0	100.0

Coefficient of Utilization



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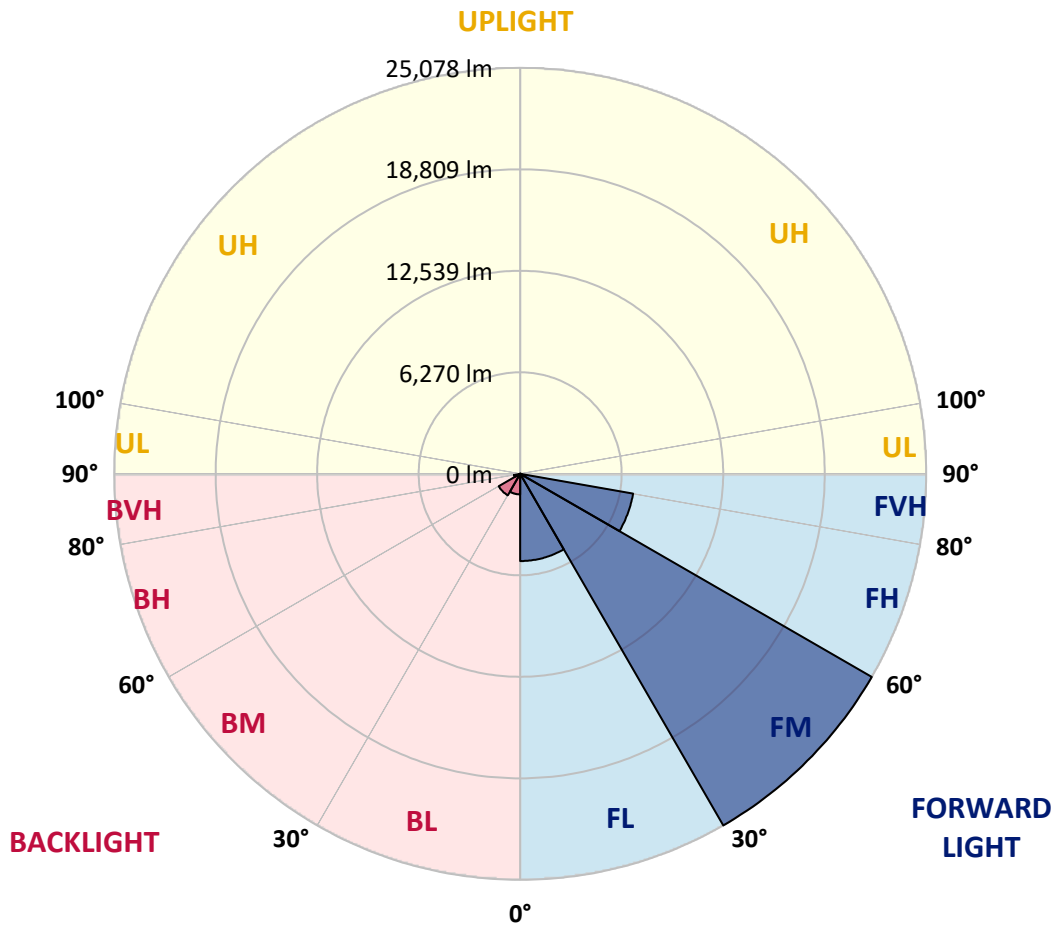
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5388.4	13.2			
FM (30°-60°)	25078.4	61.5			
FH (60°-80°)	7080.9	17.4			G3/7500
FVH (80°-90°)	69.6	0.2			G1/100
BL (0°-30°)	1272.2	3.1	B3/2500		
BM (30°-60°)	1530.4	3.8	B2/2500		
BH (60°-80°)	379.0	0.9	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
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°	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8
2.5°	12200.4	12046.9	12024.2	11994.1	11702.2	11483.3	11166.3	10819.1	10429.1	10031.5
5°	14095.0	13974.2	13951.5	13810.6	13478.5	13106.2	12542.6	11830.5	11103.4	10247.9
7.5°	14462.3	14439.7	14542.8	14537.8	14492.5	14198.1	13722.6	12874.7	11782.7	10514.6
10°	12824.4	12882.2	13189.2	13458.4	14185.5	14608.2	14505.1	13805.6	12482.2	10819.1
12.5°	11332.3	11264.4	11483.3	11787.7	12633.1	13891.2	14829.7	14583.1	13282.3	11163.8
15°	10396.4	10368.7	10492.0	10632.9	11277.0	12545.1	14452.2	15214.6	14052.2	11571.4
17.5°	10096.9	10074.3	10112.0	10147.3	10564.9	11546.2	13554.0	15602.1	14789.4	12036.8
20°	10341.0	10310.8	10305.8	10278.1	10451.7	11121.0	12741.3	15629.8	15451.1	12459.5
22.5°	11053.0	11017.8	10894.5	10783.8	10798.9	11178.8	12379.0	15353.0	15949.3	12854.5
25°	12343.8	12285.9	12029.3	11656.9	11420.4	11581.4	12434.4	14988.2	16424.8	13164.0
27.5°	13959.1	13883.6	13554.0	13000.5	12459.5	12263.3	12834.4	14736.6	16819.9	13400.5
30°	15541.7	15443.6	15119.0	14688.8	13898.7	13279.8	13556.5	14847.3	17290.4	13647.1
32.5°	17250.1	17157.0	16726.8	16193.4	15539.2	14706.4	14545.3	15388.2	17866.5	13991.8
35°	19411.4	19265.5	18654.1	17926.9	17232.5	16389.6	15883.9	16321.7	18633.9	14517.7
37.5°	21872.1	21675.8	21016.6	20012.7	19107.0	18163.4	17514.3	17604.9	19758.6	15222.2
40°	24191.9	24013.3	23404.4	22458.3	21321.1	20176.3	19484.4	19283.1	21311.0	16080.1
42.5°	25583.3	25422.3	25165.6	24765.6	23806.9	22639.5	21766.4	21331.1	23147.7	17106.7
45°	25661.3	25520.4	25865.1	26330.6	26141.9	25364.4	24300.1	23502.5	24992.0	18070.3
47.5°	24413.3	24317.7	25364.4	26989.8	27799.9	28127.0	27145.8	25492.7	26514.2	18762.3
50°	21011.6	20976.4	23130.1	26114.2	28431.5	30547.5	30147.4	27344.5	27694.3	19119.5
52.5°	18218.8	18090.5	19346.0	23311.3	27513.1	31820.6	33081.1	29161.1	28519.5	19187.5
55°	13818.2	13705.0	15280.0	18621.4	24551.7	31367.7	35227.3	31035.6	29110.8	19013.9
57.5°	7412.3	7341.9	9332.1	12394.1	19192.5	28650.4	35614.8	33018.2	29609.0	18553.4
60°	2885.9	2873.3	3618.1	6013.4	11664.4	23308.8	33659.8	34208.3	29921.0	17987.3
62.5°	1746.1	1783.9	1904.7	2699.7	5152.9	14479.9	29153.6	32854.7	30129.8	17469.0
65°	1444.2	1446.7	1461.8	1854.3	2468.3	6058.7	21947.6	28401.3	29614.0	16545.6
67.5°	1237.9	1260.5	1318.4	1471.9	1741.1	2657.0	12635.6	22000.4	26476.5	14396.9
70°	976.2	1006.4	1079.4	1210.2	1343.6	1663.1	4669.8	14638.4	20226.6	10851.8
72.5°	822.8	820.2	858.0	983.8	1066.8	1170.0	1796.5	8202.4	11755.0	5180.6
75°	636.6	661.7	709.5	822.8	873.1	847.9	973.7	2996.6	4211.9	1570.0
77.5°	498.2	518.3	561.1	671.8	722.1	601.3	561.1	1071.8	1353.6	563.6
80°	223.9	241.5	382.4	495.7	588.8	415.1	304.4	548.5	601.3	256.6
82.5°	40.3	67.9	223.9	261.7	301.9	269.2	158.5	284.3	294.4	103.2
85°	2.5	5.0	78.0	95.6	120.8	88.1	47.8	113.2	98.1	35.2
87.5°	0.0	0.0	0.0	2.5	2.5	12.6	15.1	20.1	15.1	12.6
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°
9832.8	0°	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8	9832.8
9855.4	2.5°	9674.2	9317.0	8969.8	8685.4	8519.4	8237.6	8051.4	8021.2	7943.2	8011.1
9880.6	5°	9488.1	8849.0	8202.4	7623.7	7148.1	6534.2	6076.3	5882.5	5714.0	5771.8
9946.0	7.5°	9400.0	8391.1	7384.6	6395.8	5379.3	4398.1	3668.4	3364.0	3132.5	3165.2
10018.9	10°	9281.7	7915.5	6338.0	4828.3	3467.1	2498.4	1995.2	1809.0	1705.9	1708.4
10127.1	12.5°	9191.2	7346.9	5122.7	3273.4	2111.0	1595.2	1439.2	1393.9	1363.7	1366.2
10290.7	15°	9145.9	6677.6	3922.5	2181.4	1509.6	1351.1	1313.4	1293.3	1273.1	1270.6
10471.8	17.5°	9070.4	5932.9	2870.8	1592.7	1320.9	1265.6	1232.9	1210.2	1185.1	1180.0
10627.8	20°	8957.2	5087.5	2098.4	1346.1	1237.9	1195.1	1149.8	1119.6	1089.5	1084.4
10726.0	22.5°	8748.3	4194.3	1612.8	1245.4	1177.5	1129.7	1074.4	1039.1	1008.9	1003.9
10678.2	25°	8360.9	3356.4	1358.7	1182.5	1124.7	1066.8	1006.4	958.6	930.9	925.9
10575.0	27.5°	7870.2	2636.8	1232.9	1124.7	1056.7	1003.9	936.0	890.7	865.5	860.5
10439.1	30°	7291.5	2030.5	1159.9	1059.3	976.2	930.9	870.6	832.8	817.7	817.7
10343.5	32.5°	6667.6	1622.9	1129.7	993.8	905.8	855.5	807.7	792.6	787.5	785.0
10396.4	35°	6081.3	1409.0	1114.6	941.0	842.9	795.1	774.9	777.5	787.5	787.5
10559.9	37.5°	5560.5	1341.1	1107.1	903.3	787.5	744.8	757.3	780.0	769.9	769.9
10846.7	40°	5090.0	1348.6	1102.0	875.6	742.2	717.1	742.2	724.6	699.5	696.9
11196.5	42.5°	4730.2	1411.5	1092.0	852.9	714.6	696.9	686.9	659.2	656.7	661.7
11558.8	45°	4468.5	1466.9	1089.5	842.9	684.4	651.7	639.1	611.4	661.7	674.3
11707.2	47.5°	4159.0	1466.9	1089.5	807.7	634.0	621.5	601.3	571.1	621.5	634.0
11566.3	50°	3759.0	1373.8	1046.7	767.4	593.8	586.2	551.0	513.3	503.2	510.8
11236.7	52.5°	3253.3	1205.2	938.5	712.0	553.5	538.4	495.7	468.0	460.4	460.4
10645.4	55°	2677.1	1008.9	792.6	631.5	510.8	483.1	452.9	440.3	432.8	427.7
9817.7	57.5°	2176.4	827.8	636.6	561.1	470.5	435.3	425.2	410.1	397.5	390.0
9125.7	60°	1786.4	651.7	525.9	498.2	430.2	397.5	395.0	374.9	342.2	337.2
8554.6	62.5°	1378.8	478.1	442.8	432.8	390.0	362.3	357.3	317.0	266.7	256.6
7744.4	65°	973.7	372.4	357.3	379.9	347.2	322.1	309.5	249.1	196.3	188.7
6481.4	67.5°	684.4	312.0	281.8	332.1	301.9	269.2	261.7	211.3	163.5	158.5
4901.3	70°	488.1	254.1	231.5	284.3	241.5	236.5	221.4	176.1	133.4	128.3
2425.5	72.5°	344.7	193.7	178.6	246.6	166.1	203.8	181.2	135.9	100.6	95.6
825.3	75°	254.1	138.4	125.8	143.4	120.8	153.5	128.3	90.6	62.9	60.4
372.4	77.5°	186.2	88.1	75.5	70.4	70.4	95.6	70.4	37.7	27.7	25.2
188.7	80°	130.8	40.3	35.2	30.2	27.7	22.6	10.1	5.0	2.5	2.5
65.4	82.5°	78.0	17.6	17.6	12.6	7.5	0.0	0.0	0.0	0.0	0.0
25.2	85°	17.6	7.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
10.1	87.5°	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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