

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: P951405

Luminaire Tested: **GALN-SB5C-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951405  
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-SB5C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

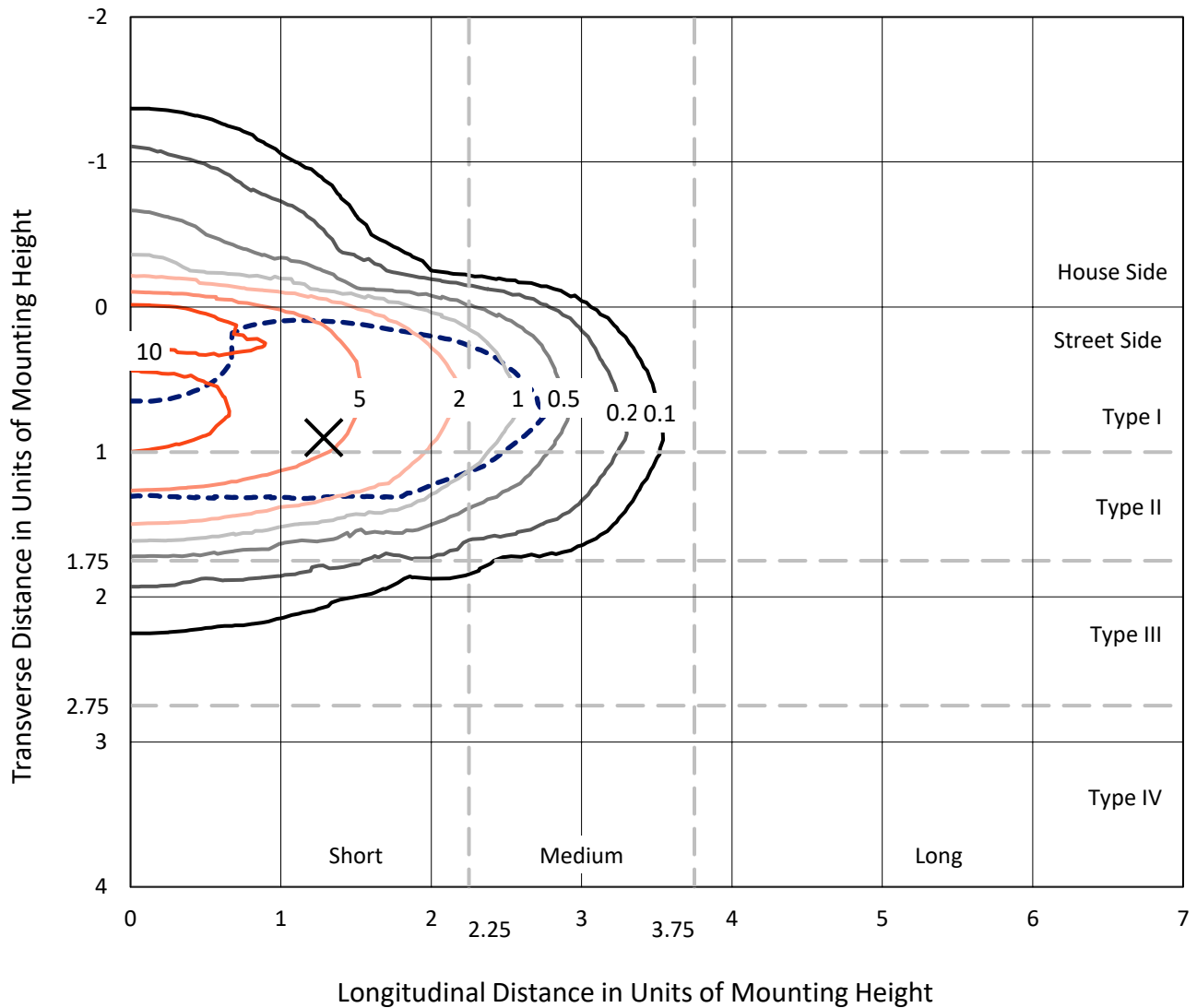
Lumens per Lamp: N/A  
Luminaire Lumens: 28048 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

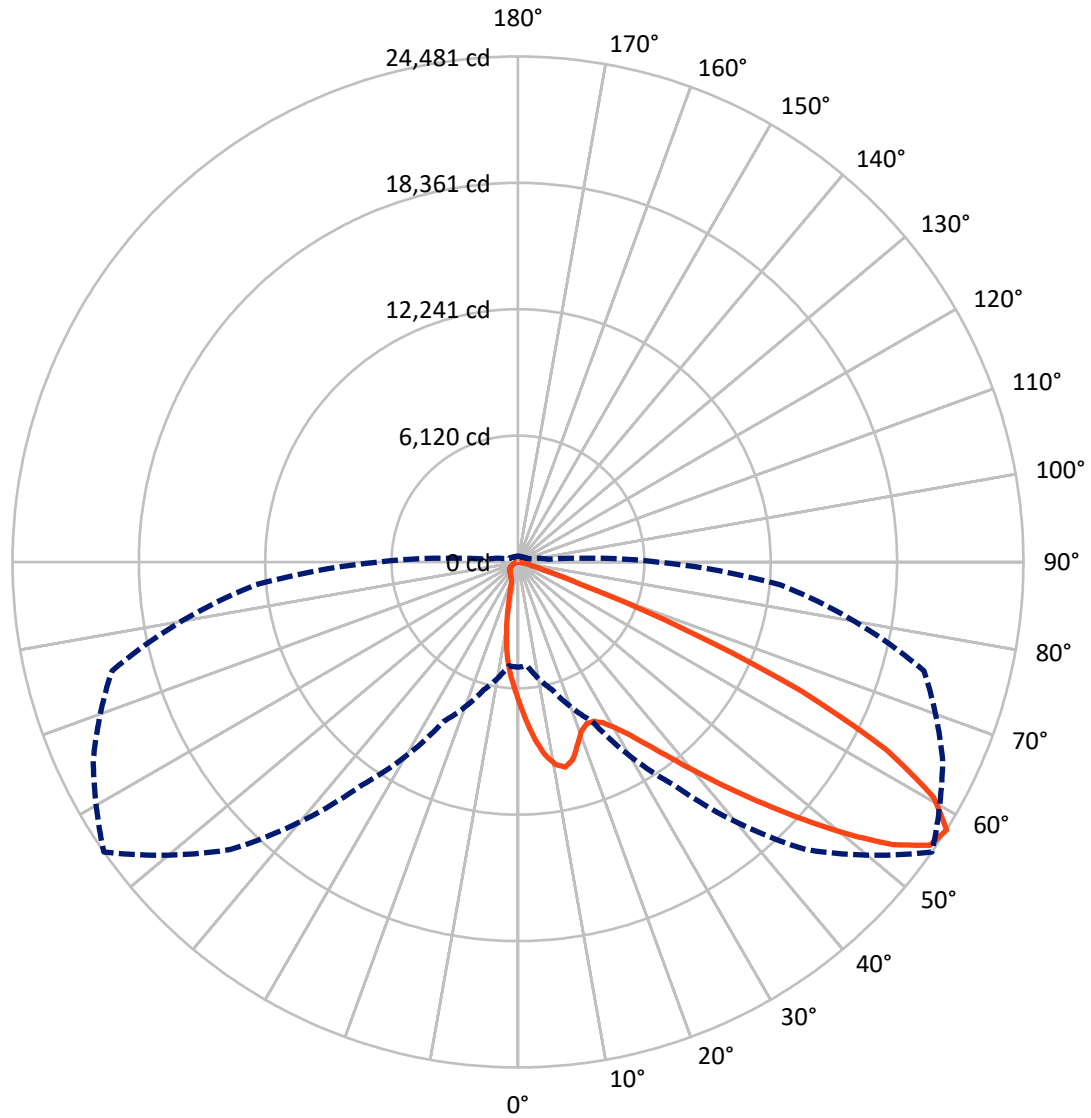
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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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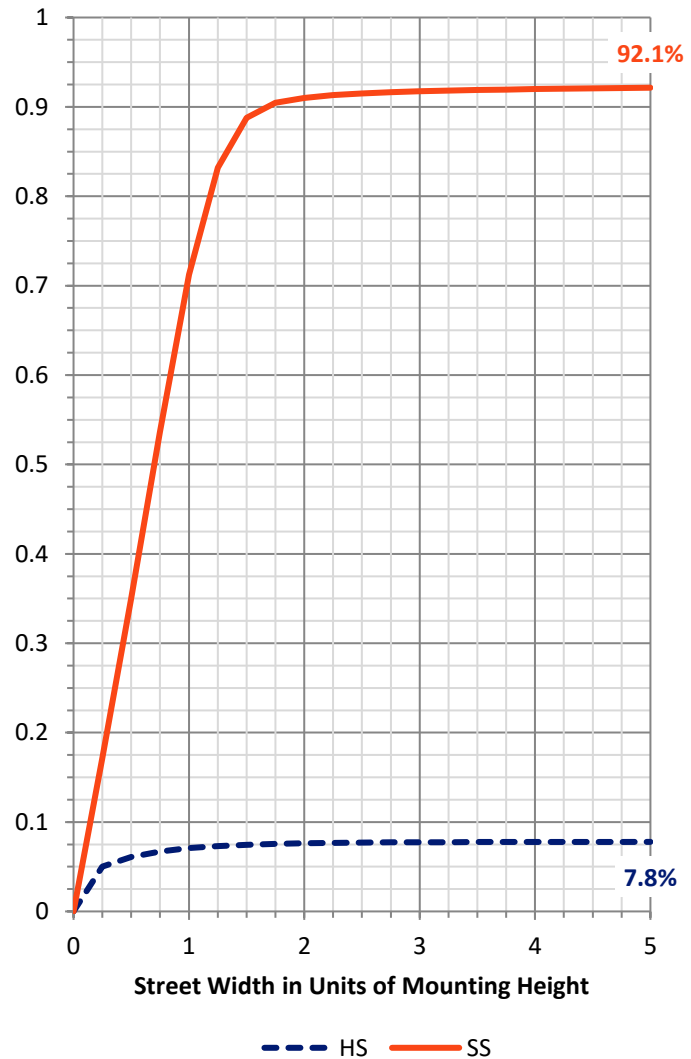
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2190.4	0.0	2190.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	25857.6	0.0	25857.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	28048.0	0.0	28048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	628.9	2.2
10°-20°	1519.1	5.4
20°-30°	2430.5	8.7
30°-40°	4113.7	14.7
40°-50°	6753.8	24.1
50°-60°	7422.9	26.5
60°-70°	4257.8	15.2
70°-80°	870.0	3.1
80°-90°	51.3	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°	28048.0	100.0
0°-180°	28048.0	100.0

**Coefficient of Utilization**



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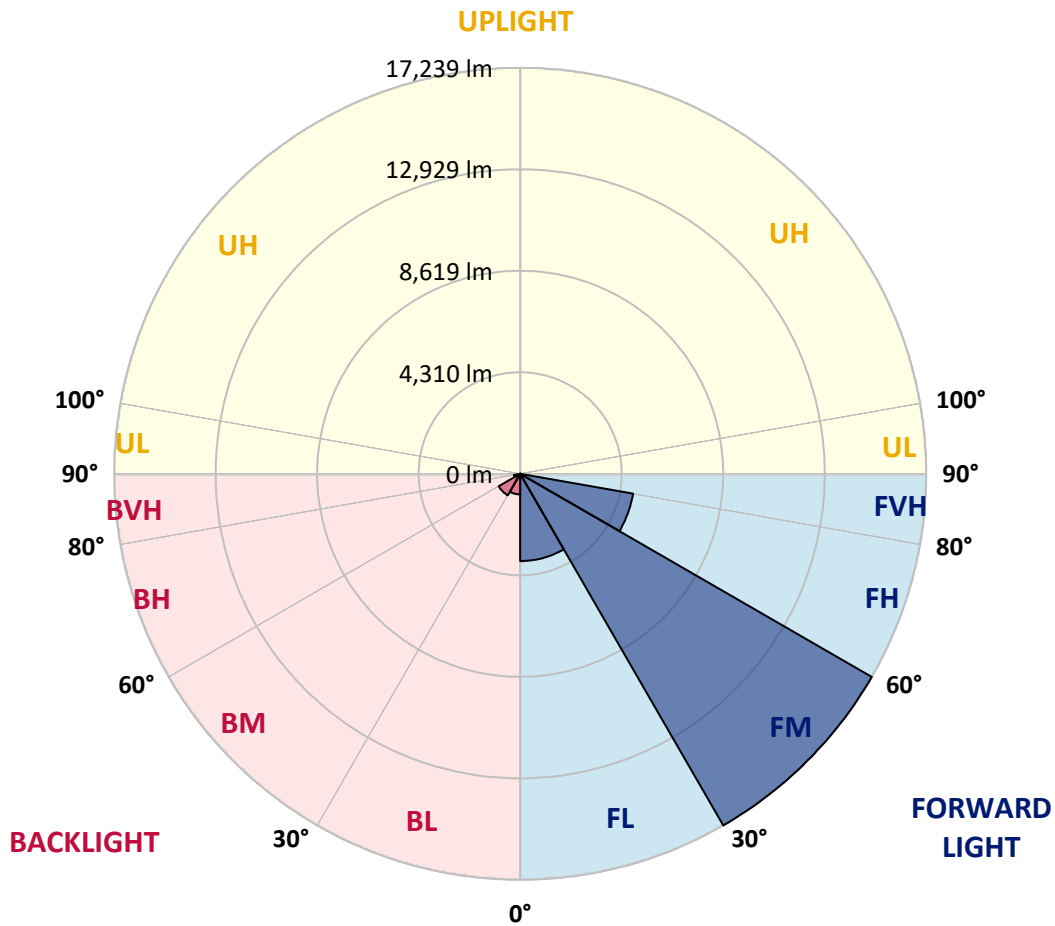
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3703.9	13.2			
FM (30°-60°)	17238.5	61.5			
FH (60°-80°)	4867.3	17.4			G2/5000
FVH (80°-90°)	47.9	0.2			G1/100
BL (0°-30°)	874.5	3.1	B2/1000		
BM (30°-60°)	1052.0	3.8	B2/2500		
BH (60°-80°)	260.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9
2.5°	8386.3	8280.8	8265.3	8244.5	8043.9	7893.4	7675.5	7436.8	7168.8	6895.5
5°	9688.6	9605.6	9590.1	9493.2	9264.9	9009.0	8621.5	8132.1	7632.3	7044.2
7.5°	9941.2	9925.6	9996.5	9993.0	9961.9	9759.6	9432.7	8849.8	8099.2	7227.6
10°	8815.2	8855.0	9066.0	9251.1	9750.9	10041.5	9970.6	9489.8	8580.0	7436.8
12.5°	7789.7	7743.0	7893.4	8102.7	8683.8	9548.6	10193.7	10024.2	9130.0	7673.8
15°	7146.3	7127.3	7212.0	7308.9	7751.6	8623.3	9934.2	10458.3	9659.2	7954.0
17.5°	6940.5	6924.9	6950.9	6975.1	7262.2	7936.7	9316.8	10724.6	10166.0	8273.9
20°	7108.2	7087.5	7084.0	7065.0	7184.3	7644.4	8758.2	10743.6	10620.8	8564.5
22.5°	7597.7	7573.5	7488.7	7412.6	7423.0	7684.2	8509.1	10553.4	10963.3	8836.0
25°	8484.9	8445.1	8268.7	8012.8	7850.2	7960.9	8547.2	10302.6	11290.2	9048.7
27.5°	9595.3	9543.4	9316.8	8936.3	8564.5	8429.6	8822.2	10129.7	11561.7	9211.3
30°	10683.1	10615.7	10392.6	10096.8	9553.7	9128.3	9318.5	10205.8	11885.1	9380.8
32.5°	11857.4	11793.4	11497.7	11131.0	10681.4	10108.9	9998.2	10577.6	12281.2	9617.7
35°	13343.1	13242.8	12822.5	12322.7	11845.3	11265.9	10918.3	11219.3	12808.7	9979.2
37.5°	15034.5	14899.6	14446.5	13756.4	13133.8	12485.2	12039.0	12101.3	13581.7	10463.5
40°	16629.1	16506.3	16087.8	15437.5	14655.8	13868.8	13393.2	13254.9	14648.8	11053.2
42.5°	17585.5	17474.8	17298.4	17023.4	16364.5	15562.0	14961.9	14662.7	15911.4	11758.9
45°	17639.1	17542.3	17779.2	18099.2	17969.5	17435.1	16703.5	16155.2	17179.1	12421.3
47.5°	16781.3	16715.6	17435.1	18552.3	19109.2	19334.1	18659.5	17523.3	18225.4	12896.9
50°	14443.0	14418.8	15899.3	17950.5	19543.3	20997.8	20722.8	18796.2	19036.6	13142.5
52.5°	12523.3	12435.1	13298.1	16023.8	18912.1	21873.0	22739.4	20044.9	19603.9	13189.1
55°	9498.4	9420.6	10503.2	12800.0	16876.4	21561.6	24214.7	21333.4	20010.3	13069.8
57.5°	5095.1	5046.7	6414.7	8519.5	13192.6	19693.8	24481.0	22696.2	20352.7	12753.3
60°	1983.7	1975.1	2487.0	4133.5	8018.0	16022.1	23137.2	23514.2	20567.2	12364.2
62.5°	1200.3	1226.2	1309.2	1855.8	3542.0	9953.3	20039.7	22583.8	20710.7	12007.9
65°	992.7	994.5	1004.8	1274.6	1696.6	4164.6	15086.4	19522.6	20356.2	11373.2
67.5°	850.9	866.5	906.3	1011.8	1196.8	1826.3	8685.5	15122.7	18199.5	9896.2
70°	671.0	691.8	742.0	831.9	923.6	1143.2	3209.9	10062.2	13903.4	7459.3
72.5°	565.5	563.8	589.8	676.2	733.3	804.2	1234.9	5638.2	8080.2	3561.0
75°	437.6	454.9	487.7	565.5	600.1	582.8	669.3	2059.8	2895.2	1079.2
77.5°	342.4	356.3	385.7	461.8	496.4	413.3	385.7	736.8	930.5	387.4
80°	153.9	166.0	262.9	340.7	404.7	285.4	209.3	377.0	413.3	176.4
82.5°	27.7	46.7	153.9	179.9	207.5	185.1	109.0	195.4	202.4	70.9
85°	1.7	3.5	53.6	65.7	83.0	60.5	32.9	77.8	67.5	24.2
87.5°	0.0	0.0	0.0	1.7	1.7	8.6	10.4	13.8	10.4	8.6
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°
6758.9	0°	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9	6758.9
6774.4	2.5°	6649.9	6404.3	6165.7	5970.2	5856.1	5662.4	5534.4	5513.6	5460.0	5506.7
6791.7	5°	6521.9	6082.6	5638.2	5240.4	4913.5	4491.5	4176.7	4043.6	3927.7	3967.5
6836.7	7.5°	6461.4	5767.9	5076.1	4396.4	3697.7	3023.2	2521.6	2312.3	2153.2	2175.7
6886.9	10°	6380.1	5441.0	4356.6	3318.9	2383.2	1717.4	1371.5	1243.5	1172.6	1174.3
6961.2	12.5°	6317.9	5050.1	3521.3	2250.1	1451.0	1096.5	989.3	958.1	937.4	939.1
7073.6	15°	6286.7	4590.1	2696.3	1499.5	1037.7	928.7	902.8	889.0	875.1	873.4
7198.2	17.5°	6234.8	4078.2	1973.4	1094.8	908.0	869.9	847.5	831.9	814.6	811.1
7305.4	20°	6157.0	3497.0	1442.4	925.3	850.9	821.5	790.4	769.6	748.9	745.4
7372.8	22.5°	6013.5	2883.1	1108.6	856.1	809.4	776.5	738.5	714.3	693.5	690.1
7340.0	25°	5747.1	2307.1	933.9	812.9	773.1	733.3	691.8	658.9	639.9	636.5
7269.1	27.5°	5409.9	1812.5	847.5	773.1	726.4	690.1	643.4	612.2	594.9	591.5
7175.7	30°	5012.1	1395.7	797.3	728.1	671.0	639.9	598.4	572.5	562.1	562.1
7110.0	32.5°	4583.2	1115.5	776.5	683.2	622.6	588.0	555.2	544.8	541.3	539.6
7146.3	35°	4180.2	968.5	766.2	646.8	579.4	546.5	532.7	534.4	541.3	541.3
7258.7	37.5°	3822.2	921.8	761.0	620.9	541.3	511.9	520.6	536.1	529.2	529.2
7455.9	40°	3498.8	927.0	757.5	601.9	510.2	492.9	510.2	498.1	480.8	479.1
7696.3	42.5°	3251.5	970.2	750.6	586.3	491.2	479.1	472.2	453.1	451.4	454.9
7945.3	45°	3071.6	1008.3	748.9	579.4	470.4	447.9	439.3	420.3	454.9	463.5
8047.4	47.5°	2858.9	1008.3	748.9	555.2	435.8	427.2	413.3	392.6	427.2	435.8
7950.5	50°	2583.9	944.3	719.5	527.5	408.2	403.0	378.8	352.8	345.9	351.1
7723.9	52.5°	2236.2	828.4	645.1	489.4	380.5	370.1	340.7	321.7	316.5	316.5
7317.5	55°	1840.2	693.5	544.8	434.1	351.1	332.1	311.3	302.7	297.5	294.0
6748.5	57.5°	1496.0	569.0	437.6	385.7	323.4	299.2	292.3	281.9	273.3	268.1
6272.9	60°	1227.9	447.9	361.5	342.4	295.7	273.3	271.5	257.7	235.2	231.8
5880.3	62.5°	947.8	328.6	304.4	297.5	268.1	249.0	245.6	217.9	183.3	176.4
5323.4	65°	669.3	256.0	245.6	261.2	238.7	221.4	212.7	171.2	134.9	129.7
4455.2	67.5°	470.4	214.5	193.7	228.3	207.5	185.1	179.9	145.3	112.4	109.0
3369.1	70°	335.5	174.7	159.1	195.4	166.0	162.6	152.2	121.1	91.7	88.2
1667.2	72.5°	236.9	133.2	122.8	169.5	114.1	140.1	124.5	93.4	69.2	65.7
567.3	75°	174.7	95.1	86.5	98.6	83.0	105.5	88.2	62.3	43.2	41.5
256.0	77.5°	128.0	60.5	51.9	48.4	48.4	65.7	48.4	25.9	19.0	17.3
129.7	80°	89.9	27.7	24.2	20.8	19.0	15.6	6.9	3.5	1.7	1.7
45.0	82.5°	53.6	12.1	12.1	8.6	5.2	0.0	0.0	0.0	0.0	0.0
17.3	85°	12.1	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	1.7	1.7	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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