

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: P956109

Luminaire Tested: **GALN-SB8D-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956109
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-SB8D-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 900mA 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: 67108 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

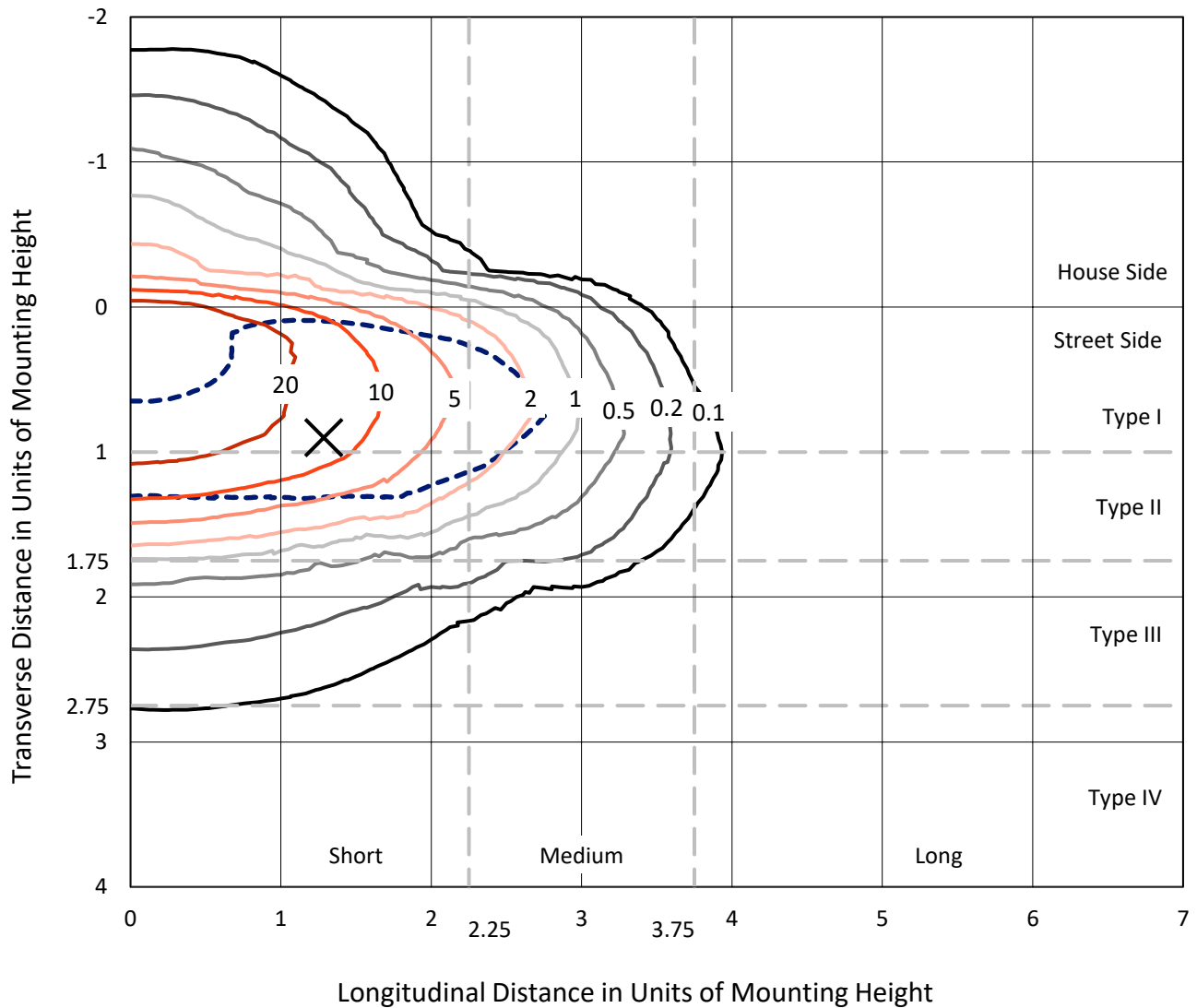
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

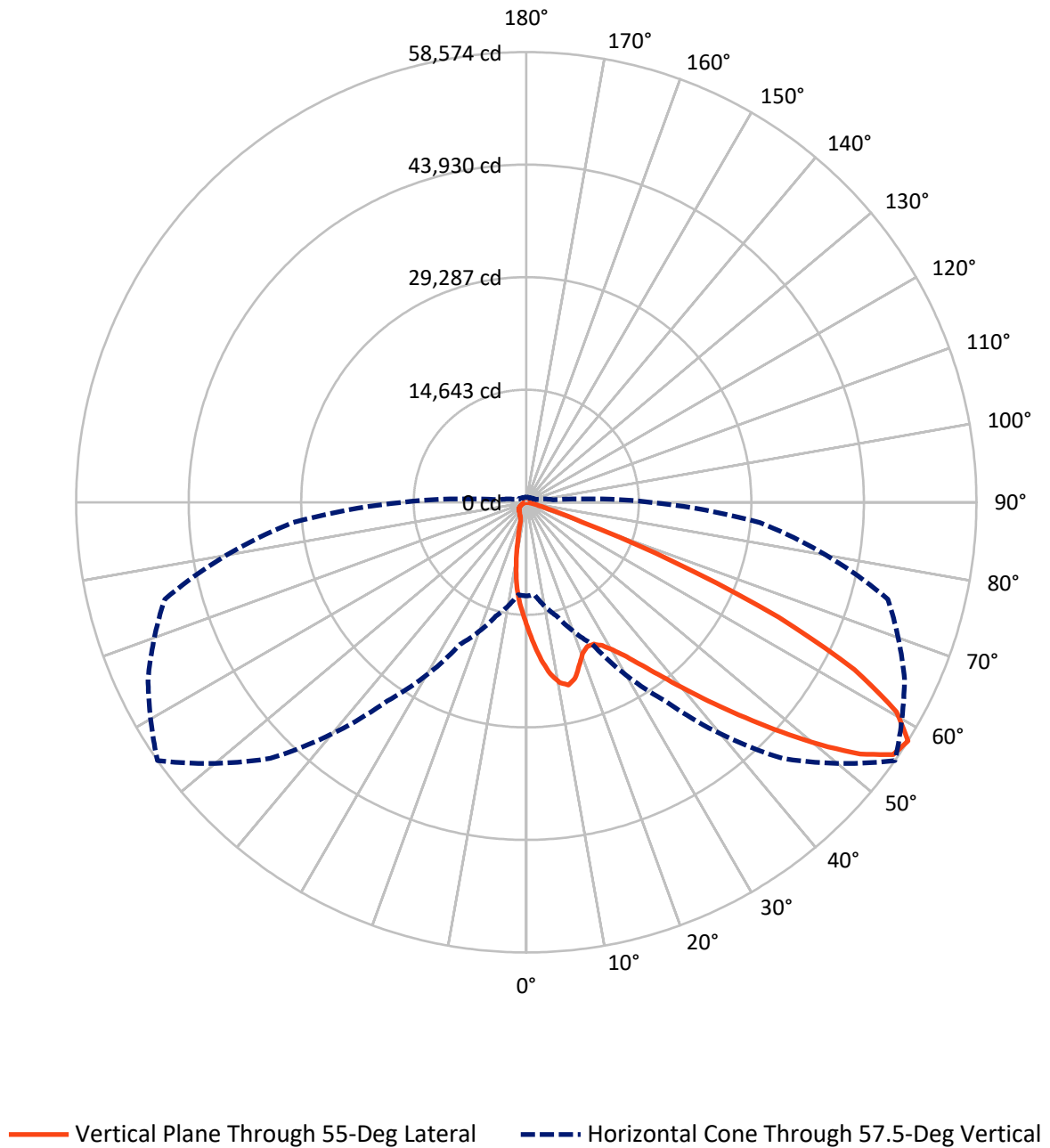
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 37 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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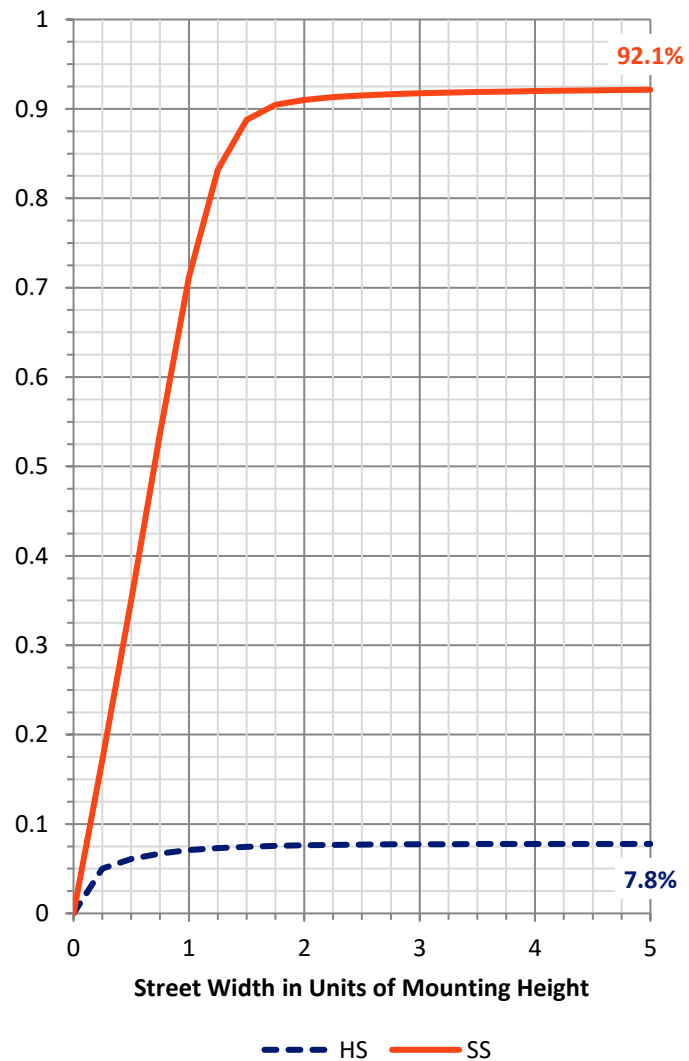
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5240.9	0.0	5240.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	61867.1	0.0	61867.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	67108.0	0.0	67108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1504.7	2.2
10°-20°	3634.5	5.4
20°-30°	5815.2	8.7
30°-40°	9842.5	14.7
40°-50°	16159.3	24.1
50°-60°	17760.2	26.5
60°-70°	10187.3	15.2
70°-80°	2081.6	3.1
80°-90°	122.8	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°	67108.0	100.0
0°-180°	67108.0	100.0

Coefficient of Utilization



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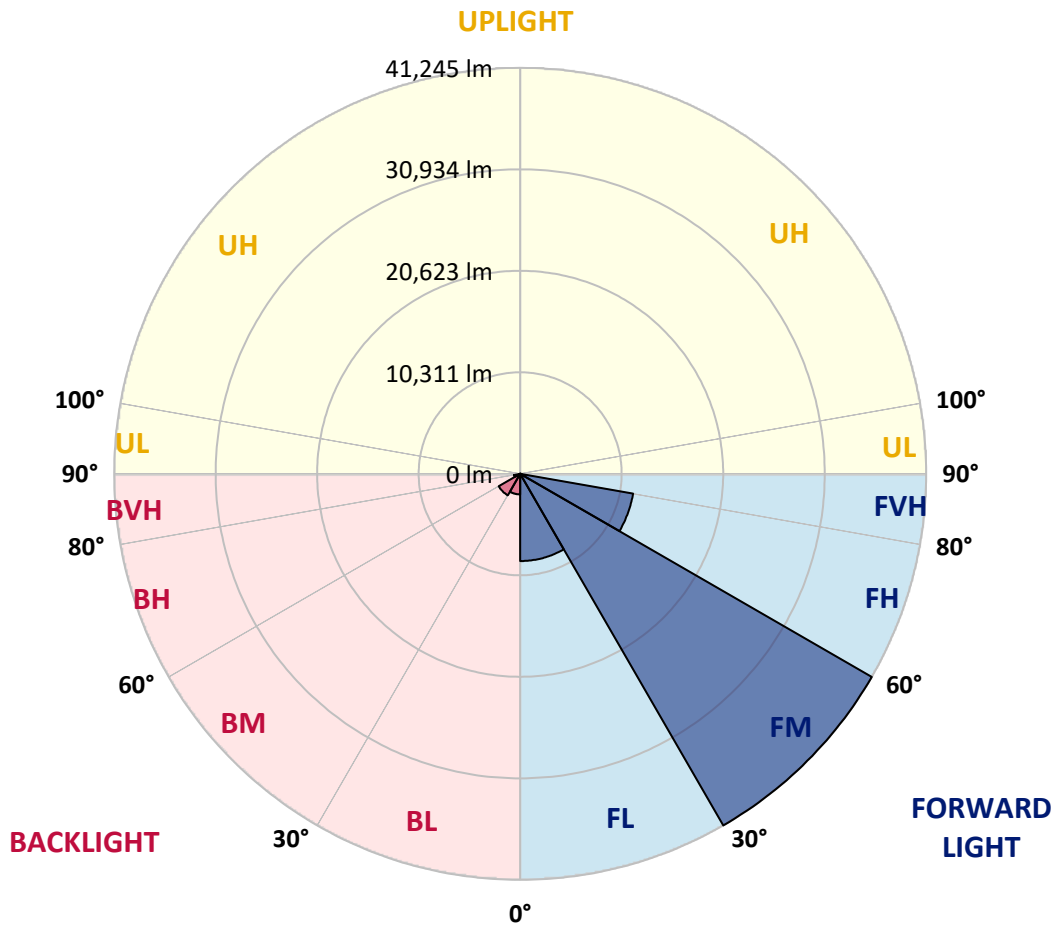
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8862.0	13.2			
FM (30°-60°)	41245.1	61.5			
FH (60°-80°)	11645.5	17.4			G4/12000
FVH (80°-90°)	114.5	0.2			G2/225
BL (0°-30°)	2092.3	3.1	B3/2500		
BM (30°-60°)	2517.0	3.8	B3/5000		
BH (60°-80°)	623.3	0.9	B2/1000		G2/1000
BVH (80°-90°)	8.3	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4
2.5°	20065.2	19812.8	19775.6	19725.9	19245.9	18885.9	18364.5	17793.5	17152.1	16498.3
5°	23181.2	22982.6	22945.3	22713.6	22167.4	21554.9	20628.0	19457.0	18261.1	16854.1
7.5°	23785.3	23748.1	23917.7	23909.5	23835.0	23350.8	22568.7	21174.2	19378.3	17292.8
10°	21091.5	21186.7	21691.5	22134.3	23330.1	24025.3	23855.7	22705.3	20528.7	17793.5
12.5°	18637.6	18525.9	18885.9	19386.6	20777.0	22846.0	24389.5	23984.0	21844.6	18360.4
15°	17098.3	17052.8	17255.5	17487.3	18546.6	20632.2	23768.8	25022.6	23110.8	19030.7
17.5°	16605.9	16568.6	16630.7	16688.6	17375.5	18989.4	22291.5	25659.8	24323.3	19796.3
20°	17007.3	16957.6	16949.3	16903.8	17189.3	18290.0	20954.9	25705.4	25411.6	20491.5
22.5°	18178.3	18120.4	17917.6	17735.5	17760.4	18385.2	20359.0	25250.2	26230.9	21141.1
25°	20301.1	20205.9	19783.9	19171.4	18782.5	19047.3	20450.1	24650.2	27013.0	21650.1
27.5°	22957.7	22833.6	22291.5	21381.1	20491.5	20168.7	21108.0	24236.4	27662.6	22039.1
30°	25560.5	25399.2	24865.3	24157.7	22858.4	21840.5	22295.6	24418.4	28436.5	22444.6
32.5°	28370.3	28217.1	27509.5	26632.3	25556.4	24186.7	23921.9	25308.1	29384.1	23011.5
35°	31924.8	31684.8	30679.3	29483.4	28341.3	26955.0	26123.3	26843.3	30646.2	23876.4
37.5°	35971.8	35649.0	34564.9	32913.8	31424.1	29872.4	28804.7	28953.7	32495.9	25035.0
40°	39787.0	39493.2	38491.8	36935.9	35065.6	33182.8	32044.8	31713.8	35049.0	26446.1
42.5°	42075.4	41810.5	41388.5	40730.5	39153.9	37233.9	35798.0	35082.1	38069.8	28134.4
45°	42203.6	41971.9	42538.8	43304.4	42994.0	41715.4	39965.0	38653.2	41102.9	29719.2
47.5°	40151.2	39993.9	41715.4	44388.5	45721.0	46258.9	44645.1	41926.4	43606.4	30857.2
50°	34556.6	34498.7	38040.8	42948.5	46759.6	50239.7	49581.7	44972.0	45547.2	31444.8
52.5°	29963.4	29752.3	31817.2	38338.7	45249.2	52333.5	54406.7	47959.6	46904.4	31556.5
55°	22726.0	22539.8	25130.2	30625.5	40378.8	51588.7	57936.4	51042.5	47876.9	31271.0
57.5°	12190.6	12074.7	15347.9	20383.9	31564.8	47119.6	58573.6	54303.2	48696.2	30513.7
60°	4746.3	4725.6	5950.5	9889.9	19183.9	38334.6	55358.4	56260.5	49209.3	29582.7
62.5°	2871.8	2933.9	3132.5	4440.1	8474.7	23814.3	47947.2	54034.2	49552.8	28730.3
65°	2375.2	2379.4	2404.2	3049.7	4059.4	9964.3	36095.9	46709.9	48704.5	27211.6
67.5°	2035.9	2073.1	2168.3	2420.7	2863.5	4369.7	20781.1	36182.8	43544.4	23677.7
70°	1605.6	1655.2	1775.2	1990.4	2209.7	2735.2	7680.2	24075.0	33265.5	17847.3
72.5°	1353.1	1349.0	1411.1	1618.0	1754.5	1924.2	2954.5	13489.9	19332.8	8520.2
75°	1046.9	1088.3	1166.9	1353.1	1435.9	1394.5	1601.4	4928.4	6927.0	2582.1
77.5°	819.3	852.4	922.8	1104.9	1187.6	989.0	922.8	1762.8	2226.3	926.9
80°	368.3	397.2	629.0	815.2	968.3	682.8	500.7	902.1	989.0	422.1
82.5°	66.2	111.7	368.3	430.4	496.6	442.8	260.7	467.6	484.1	169.7
85°	4.1	8.3	128.3	157.2	198.6	144.8	78.6	186.2	161.4	57.9
87.5°	0.0	0.0	0.0	4.1	4.1	20.7	24.8	33.1	24.8	20.7
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
16171.4	0°	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4	16171.4
16208.6	2.5°	15910.7	15323.1	14752.0	14284.4	14011.3	13547.9	13241.7	13192.0	13063.7	13175.4
16250.0	5°	15604.5	14553.4	13489.9	12538.2	11756.1	10746.4	9993.3	9674.7	9397.4	9492.6
16357.6	7.5°	15459.6	13800.3	12145.1	10518.8	8847.1	7233.3	6033.2	5532.5	5151.8	5205.6
16477.6	10°	15265.1	13018.2	10423.7	7940.9	5702.2	4109.1	3281.4	2975.2	2805.6	2809.7
16655.5	12.5°	15116.2	12083.0	8425.0	5383.6	3471.8	2623.5	2366.9	2292.5	2242.8	2246.9
16924.5	15°	15041.7	10982.3	6451.2	3587.7	2482.8	2222.1	2160.0	2126.9	2093.8	2089.7
17222.4	17.5°	14917.6	9757.4	4721.5	2619.4	2172.5	2081.4	2027.6	1990.4	1949.0	1940.7
17479.0	20°	14731.3	8367.1	3451.1	2213.8	2035.9	1965.6	1891.1	1841.4	1791.8	1783.5
17640.4	22.5°	14387.9	6898.1	2652.5	2048.3	1936.6	1858.0	1766.9	1709.0	1659.3	1651.1
17561.7	25°	13750.6	5520.1	2234.5	1944.9	1849.7	1754.5	1655.2	1576.6	1531.1	1522.8
17392.1	27.5°	12943.7	4336.6	2027.6	1849.7	1738.0	1651.1	1539.3	1464.9	1423.5	1415.2
17168.6	30°	11992.0	3339.4	1907.6	1742.1	1605.6	1531.1	1431.8	1369.7	1344.9	1344.9
17011.4	32.5°	10965.7	2669.0	1858.0	1634.5	1489.7	1406.9	1328.3	1303.5	1295.2	1291.1
17098.3	35°	10001.6	2317.3	1833.1	1547.6	1386.2	1307.6	1274.5	1278.6	1295.2	1295.2
17367.3	37.5°	9145.0	2205.6	1820.7	1485.5	1295.2	1224.9	1245.5	1282.8	1266.2	1266.2
17839.0	40°	8371.2	2218.0	1812.5	1440.0	1220.7	1179.3	1220.7	1191.7	1150.4	1146.2
18414.2	42.5°	7779.5	2321.4	1795.9	1402.8	1175.2	1146.2	1129.7	1084.2	1080.0	1088.3
19010.1	45°	7349.1	2412.5	1791.8	1386.2	1125.5	1071.7	1051.1	1005.5	1088.3	1109.0
19254.2	47.5°	6840.1	2412.5	1791.8	1328.3	1042.8	1022.1	989.0	939.3	1022.1	1042.8
19022.5	50°	6182.2	2259.4	1721.4	1262.1	976.6	964.2	906.2	844.2	827.6	840.0
18480.4	52.5°	5350.5	1982.1	1543.5	1171.1	910.4	885.5	815.2	769.7	757.3	757.3
17508.0	55°	4402.9	1659.3	1303.5	1038.6	840.0	794.5	744.8	724.2	711.7	703.5
16146.5	57.5°	3579.4	1361.4	1046.9	922.8	773.8	715.9	699.3	674.5	653.8	641.4
15008.6	60°	2938.0	1071.7	864.8	819.3	707.6	653.8	649.7	616.6	562.8	554.5
14069.3	62.5°	2267.6	786.2	728.3	711.7	641.4	595.9	587.6	521.4	438.6	422.1
12736.8	65°	1601.4	612.4	587.6	624.8	571.0	529.7	509.0	409.7	322.8	310.4
10659.5	67.5°	1125.5	513.1	463.5	546.2	496.6	442.8	430.4	347.6	269.0	260.7
8060.9	70°	802.8	417.9	380.7	467.6	397.2	389.0	364.1	289.7	219.3	211.0
3989.0	72.5°	566.9	318.6	293.8	405.5	273.1	335.2	297.9	223.5	165.5	157.2
1357.3	75°	417.9	227.6	206.9	235.9	198.6	252.4	211.0	149.0	103.5	99.3
612.4	77.5°	306.2	144.8	124.1	115.9	115.9	157.2	115.9	62.1	45.5	41.4
310.4	80°	215.2	66.2	57.9	49.7	45.5	37.2	16.6	8.3	4.1	4.1
107.6	82.5°	128.3	29.0	29.0	20.7	12.4	0.0	0.0	0.0	0.0	0.0
41.4	85°	29.0	12.4	12.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0
16.6	87.5°	4.1	4.1	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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