

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: P950502

Luminaire Tested: **GALN-SB4D-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950502
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-SB4D-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 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: 25198 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

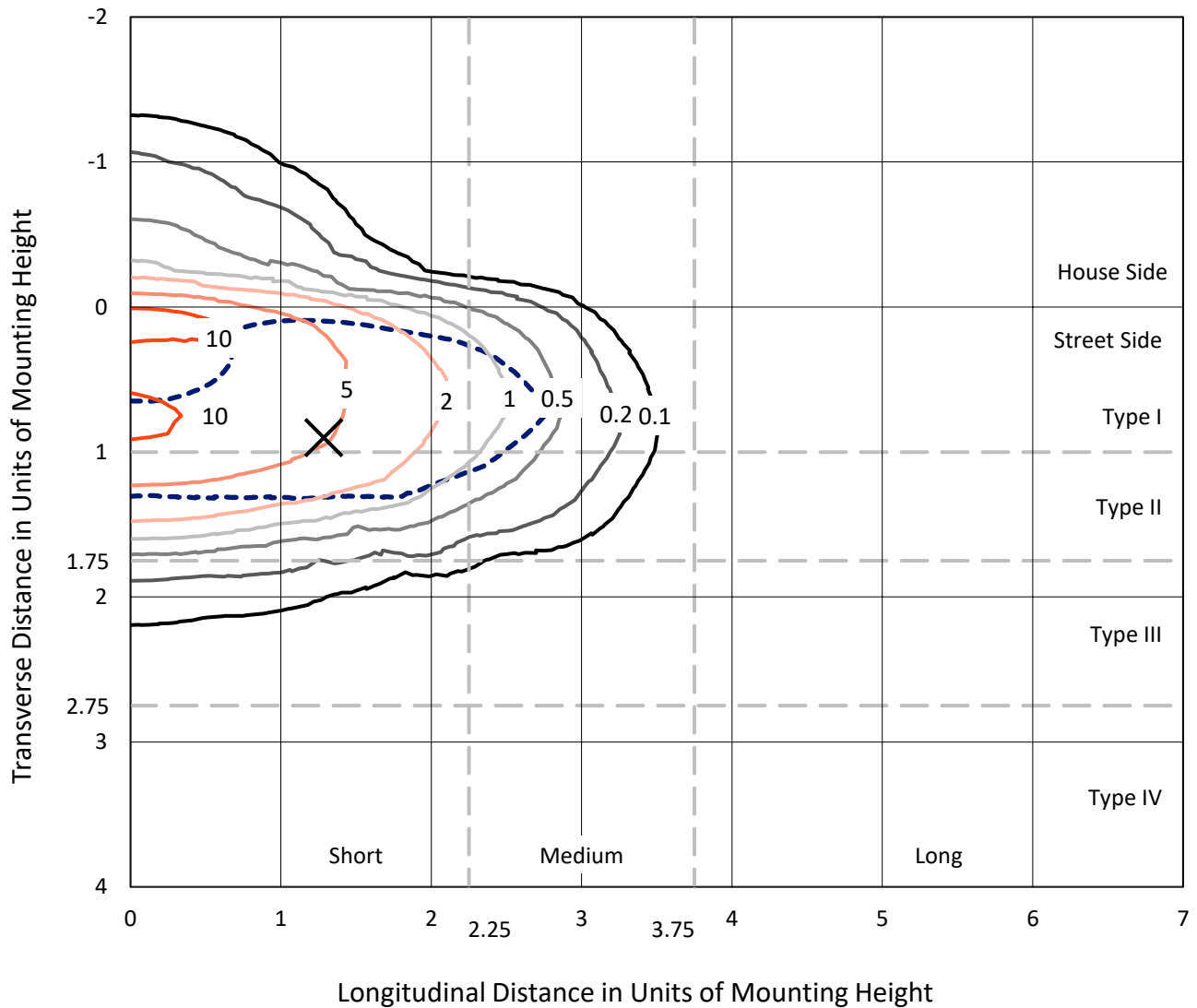
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

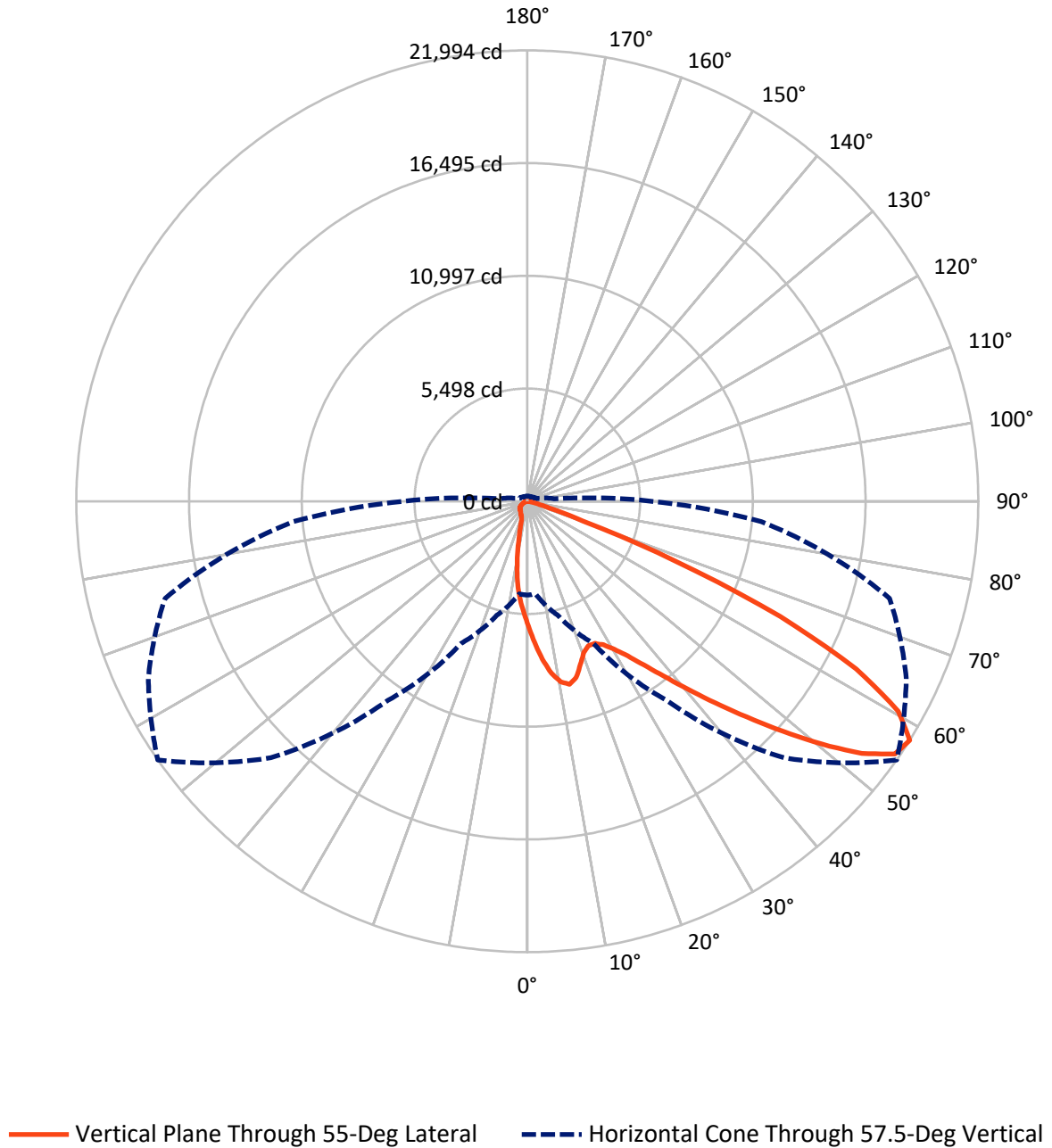
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	1967.9	0.0	1967.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	23230.1	0.0	23230.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	25198.0	0.0	25198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.0	2.2
10°-20°	1364.7	5.4
20°-30°	2183.5	8.7
30°-40°	3695.7	14.7
40°-50°	6067.6	24.1
50°-60°	6668.7	26.5
60°-70°	3825.2	15.2
70°-80°	781.6	3.1
80°-90°	46.1	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°	25198.0	100.0
0°-180°	25198.0	100.0

Coefficient of Utilization



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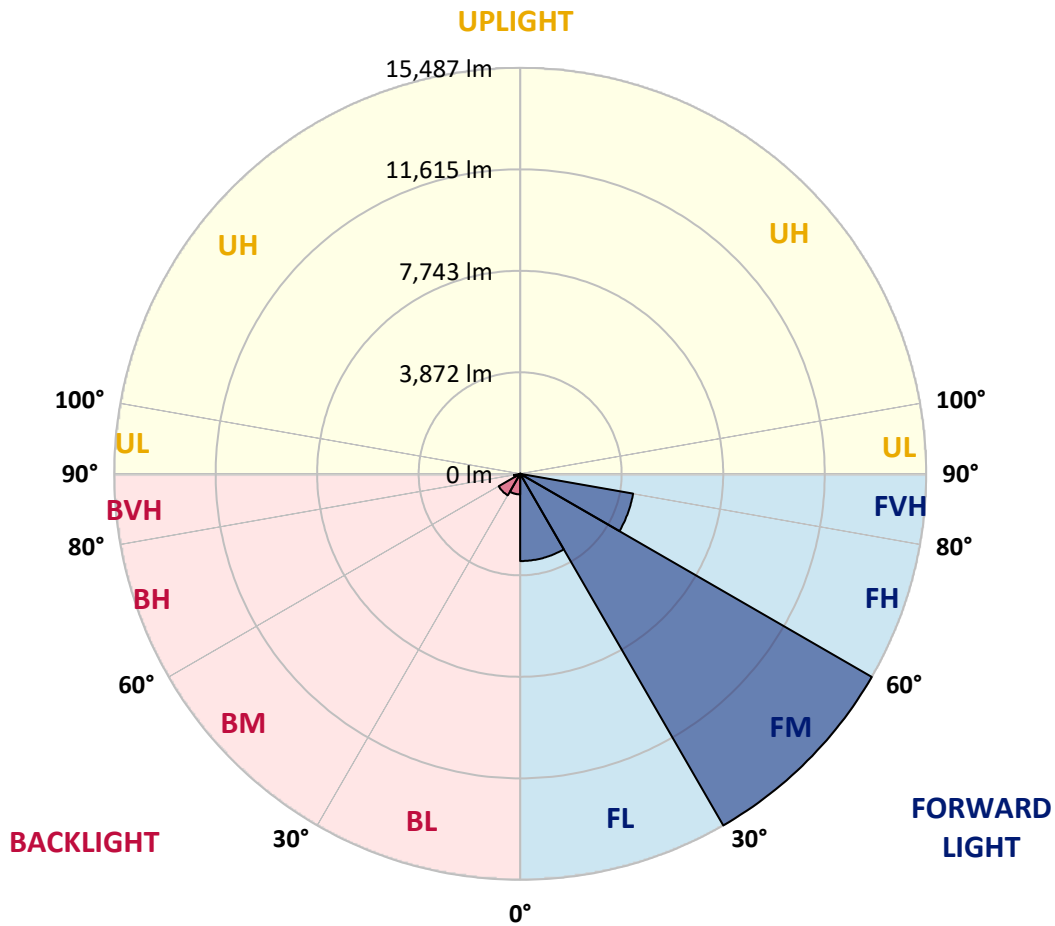
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3327.6	13.2			
FM (30°-60°)	15486.9	61.5			
FH (60°-80°)	4372.7	17.4			G2/5000
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	785.6	3.1	B2/1000		
BM (30°-60°)	945.1	3.8	B1/1000		
BH (60°-80°)	234.0	0.9	B1/500		G1/500
BVH (80°-90°)	3.1	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°	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1
2.5°	7534.2	7439.4	7425.4	7406.8	7226.5	7091.4	6895.6	6681.2	6440.3	6194.8
5°	8704.2	8629.6	8615.6	8528.6	8323.5	8093.5	7745.5	7305.8	6856.7	6328.5
7.5°	8931.0	8917.0	8980.7	8977.6	8949.7	8767.9	8474.2	7950.6	7276.3	6493.2
10°	7919.5	7955.3	8144.8	8311.1	8760.1	9021.1	8957.4	8525.5	7708.2	6681.2
12.5°	6998.1	6956.2	7091.4	7279.4	7801.4	8578.3	9157.9	9005.6	8202.3	6894.0
15°	6420.1	6403.0	6479.2	6566.2	6964.0	7747.1	8924.8	9395.6	8677.8	7145.7
17.5°	6235.2	6221.3	6244.6	6266.3	6524.2	7130.2	8370.1	9634.9	9133.0	7433.2
20°	6386.0	6367.3	6364.2	6347.1	6454.3	6867.6	7868.2	9652.0	9541.6	7694.2
22.5°	6825.7	6803.9	6727.8	6659.4	6668.7	6903.4	7644.5	9481.0	9849.3	7938.2
25°	7622.8	7587.0	7428.5	7198.6	7052.5	7152.0	7678.7	9255.8	10143.0	8129.3
27.5°	8620.3	8573.7	8370.1	8028.3	7694.2	7573.0	7925.7	9100.4	10386.9	8275.3
30°	9597.6	9537.0	9336.5	9070.9	8583.0	8200.7	8371.7	9168.7	10677.4	8427.6
32.5°	10652.6	10595.1	10329.4	10000.0	9596.0	9081.7	8982.3	9502.8	11033.3	8640.5
35°	11987.3	11897.1	11519.6	11070.5	10641.7	10121.2	9808.9	10079.2	11507.2	8965.2
37.5°	13506.8	13385.6	12978.6	12358.6	11799.3	11216.6	10815.7	10871.7	12201.7	9400.3
40°	14939.4	14829.1	14453.1	13868.9	13166.6	12459.6	12032.3	11908.0	13160.4	9930.1
42.5°	15798.6	15699.2	15540.7	15293.7	14701.7	13980.7	13441.6	13172.8	14294.6	10564.0
45°	15846.8	15759.8	15972.7	16260.1	16143.6	15663.5	15006.2	14513.7	15433.5	11159.1
47.5°	15076.1	15017.1	15663.5	16667.2	17167.5	17369.5	16763.5	15742.7	16373.5	11586.4
50°	12975.5	12953.7	14283.7	16126.5	17557.5	18864.2	18617.2	16886.3	17102.2	11807.0
52.5°	11250.8	11171.5	11946.9	14395.6	16990.4	19650.4	20428.8	18008.1	17611.9	11849.0
55°	8533.3	8463.3	9436.0	11499.4	15161.6	19370.7	21754.2	19165.6	17977.0	11741.8
57.5°	4577.4	4533.9	5762.9	7653.8	11852.1	17692.7	21993.5	20390.0	18284.7	11457.4
60°	1782.2	1774.4	2234.3	3713.5	7203.2	14394.0	20786.2	21124.9	18477.3	11107.8
62.5°	1078.3	1101.6	1176.2	1667.2	3182.1	8941.9	18003.4	20289.0	18606.3	10787.8
65°	891.9	893.4	902.7	1145.1	1524.2	3741.5	13553.5	17538.9	18287.8	10217.5
67.5°	764.5	778.4	814.2	909.0	1075.2	1640.8	7803.0	13586.1	16350.2	8890.6
70°	602.9	621.5	666.6	747.4	829.7	1027.0	2883.8	9039.8	12490.7	6701.4
72.5°	508.1	506.5	529.8	607.5	658.8	722.5	1109.4	5065.3	7259.2	3199.2
75°	393.1	408.6	438.2	508.1	539.2	523.6	601.3	1850.5	2601.0	969.5
77.5°	307.6	320.1	346.5	414.9	445.9	371.3	346.5	661.9	835.9	348.0
80°	138.3	149.2	236.2	306.1	363.6	256.4	188.0	338.7	371.3	158.5
82.5°	24.9	42.0	138.3	161.6	186.5	166.3	97.9	175.6	181.8	63.7
85°	1.6	3.1	48.2	59.0	74.6	54.4	29.5	69.9	60.6	21.8
87.5°	0.0	0.0	0.0	1.6	1.6	7.8	9.3	12.4	9.3	7.8
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°
6072.1	0°	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1	6072.1
6086.1	2.5°	5974.2	5753.6	5539.2	5363.6	5261.0	5087.0	4972.0	4953.4	4905.2	4947.2
6101.6	5°	5859.2	5464.6	5065.3	4707.9	4414.2	4035.1	3752.3	3632.7	3528.6	3564.3
6142.0	7.5°	5804.9	5181.8	4560.3	3949.7	3321.9	2716.0	2265.4	2077.4	1934.4	1954.6
6187.1	10°	5731.8	4888.1	3913.9	2981.7	2141.1	1542.9	1232.1	1117.2	1053.4	1055.0
6253.9	12.5°	5675.9	4537.0	3163.5	2021.4	1303.6	985.1	888.8	860.8	842.1	843.7
6354.9	15°	5647.9	4123.7	2422.3	1347.1	932.3	834.4	811.1	798.6	786.2	784.6
6466.8	17.5°	5601.3	3663.8	1772.8	983.5	815.7	781.5	761.3	747.4	731.8	728.7
6563.1	20°	5531.4	3141.7	1295.8	831.3	764.5	738.0	710.1	691.4	672.8	669.7
6623.7	22.5°	5402.4	2590.1	996.0	769.1	727.2	697.6	663.5	641.7	623.1	620.0
6594.2	25°	5163.1	2072.7	839.0	730.3	694.5	658.8	621.5	592.0	574.9	571.8
6530.5	27.5°	4860.2	1628.3	761.3	694.5	652.6	620.0	578.0	550.0	534.5	531.4
6446.6	30°	4502.8	1253.9	716.3	654.1	602.9	574.9	537.6	514.3	505.0	505.0
6387.5	32.5°	4117.5	1002.2	697.6	613.7	559.4	528.3	498.8	489.4	486.3	484.8
6420.1	35°	3755.4	870.1	688.3	581.1	520.5	491.0	478.6	480.1	486.3	486.3
6521.1	37.5°	3433.8	828.2	683.7	557.8	486.3	459.9	467.7	481.7	475.5	475.5
6698.3	40°	3143.3	832.8	680.5	540.7	458.4	442.8	458.4	447.5	431.9	430.4
6914.2	42.5°	2921.1	871.7	674.3	526.7	441.3	430.4	424.2	407.1	405.5	408.6
7138.0	45°	2759.5	905.8	672.8	520.5	422.6	402.4	394.7	377.6	408.6	416.4
7229.6	47.5°	2568.4	905.8	672.8	498.8	391.5	383.8	371.3	352.7	383.8	391.5
7142.6	50°	2321.3	848.4	646.4	473.9	366.7	362.0	340.3	317.0	310.8	315.4
6939.1	52.5°	2009.0	744.3	579.6	439.7	341.8	332.5	306.1	289.0	284.3	284.3
6574.0	55°	1653.2	623.1	489.4	390.0	315.4	298.3	279.7	271.9	267.2	264.1
6062.8	57.5°	1344.0	511.2	393.1	346.5	290.6	268.8	262.6	253.3	245.5	240.8
5635.5	60°	1103.2	402.4	324.7	307.6	265.7	245.5	243.9	231.5	211.3	208.2
5282.8	62.5°	851.5	295.2	273.5	267.2	240.8	223.7	220.6	195.8	164.7	158.5
4782.5	65°	601.3	230.0	220.6	234.6	214.4	198.9	191.1	153.8	121.2	116.5
4002.5	67.5°	422.6	192.7	174.0	205.1	186.5	166.3	161.6	130.5	101.0	97.9
3026.7	70°	301.4	156.9	142.9	175.6	149.2	146.1	136.7	108.8	82.3	79.2
1497.8	72.5°	212.9	119.6	110.3	152.3	102.5	125.9	111.9	83.9	62.2	59.0
509.6	75°	156.9	85.5	77.7	88.6	74.6	94.8	79.2	55.9	38.8	37.3
230.0	77.5°	115.0	54.4	46.6	43.5	43.5	59.0	43.5	23.3	17.1	15.5
116.5	80°	80.8	24.9	21.8	18.6	17.1	14.0	6.2	3.1	1.6	1.6
40.4	82.5°	48.2	10.9	10.9	7.8	4.7	0.0	0.0	0.0	0.0	0.0
15.5	85°	10.9	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	1.6	1.6	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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