

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: P955962

Luminaire Tested: **GALN-SB8D-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955962
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-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 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: 70158 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

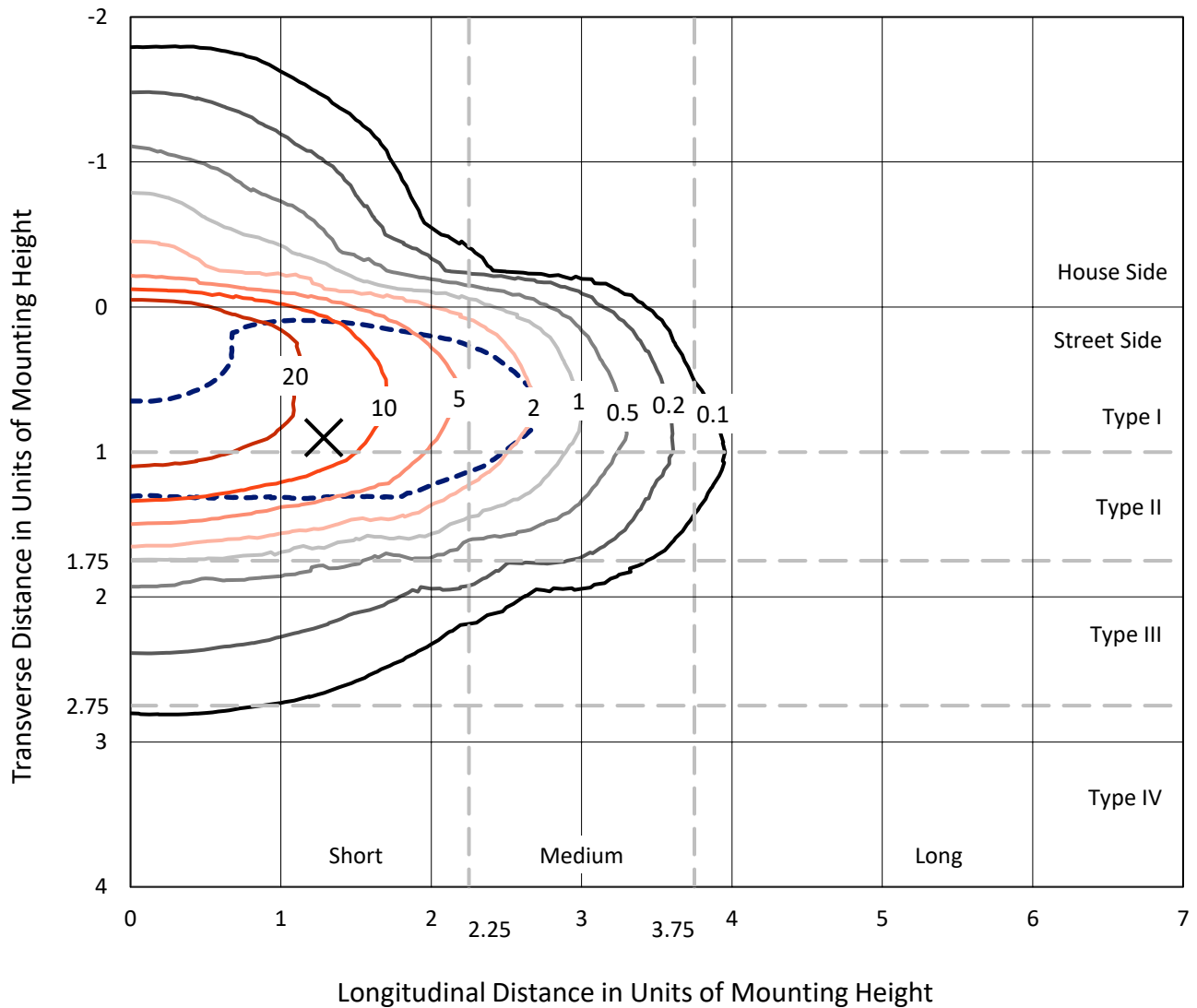
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955962
 CATALOG NUMBER: GALN-SB8D-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

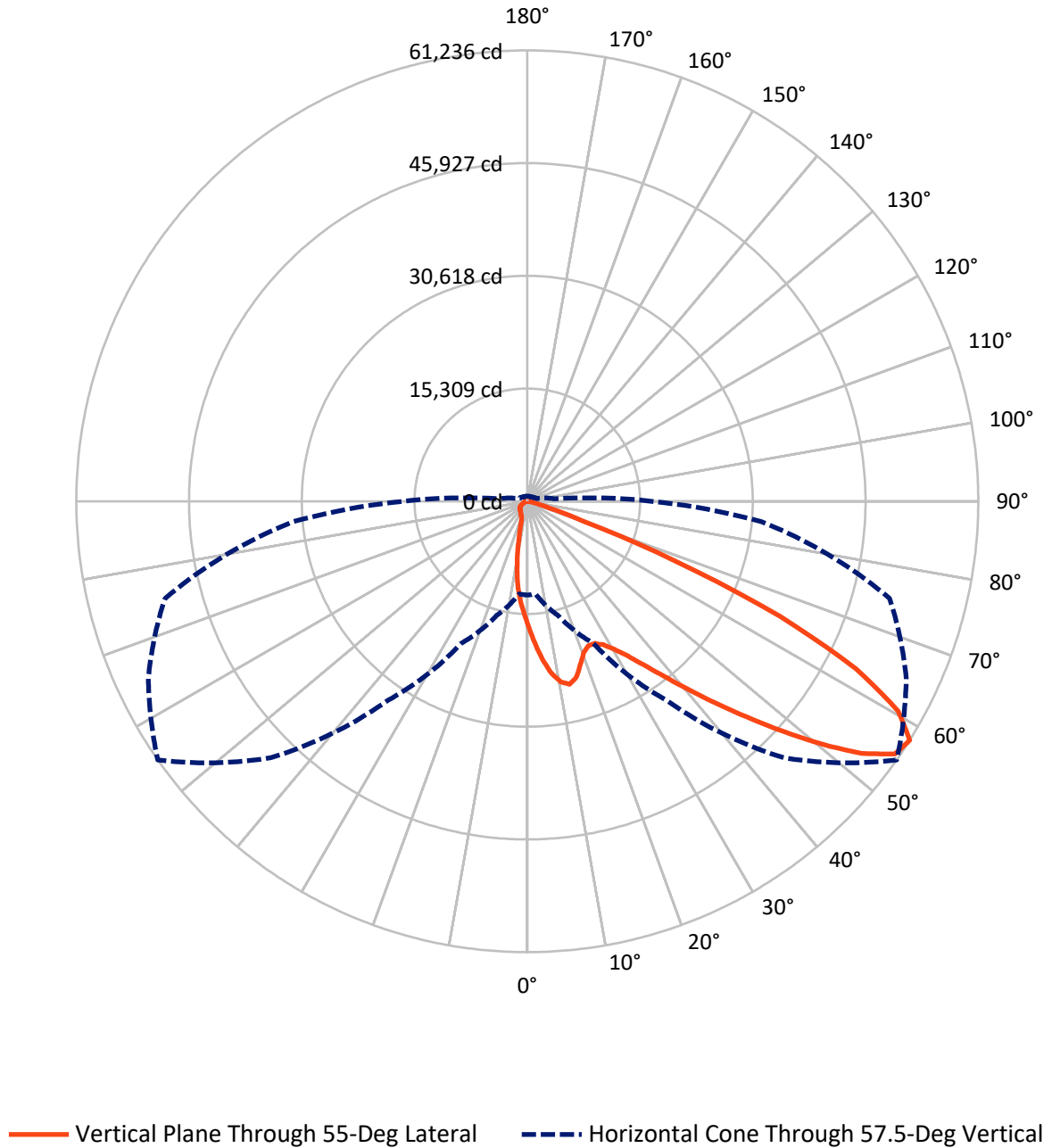
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 38.7 fc
 Type II - Short - N/A

REPORT NUMBER: P955962
CATALOG NUMBER: GALN-SB8D-735-U-AFL-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5479.1	0.0	5479.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	64678.9	0.0	64678.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	70158.0	0.0	70158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1573.0	2.2
10°-20°	3799.7	5.4
20°-30°	6079.5	8.7
30°-40°	10289.9	14.7
40°-50°	16893.7	24.1
50°-60°	18567.4	26.5
60°-70°	10650.3	15.2
70°-80°	2176.2	3.1
80°-90°	128.4	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°	70158.0	100.0
0°-180°	70158.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955962

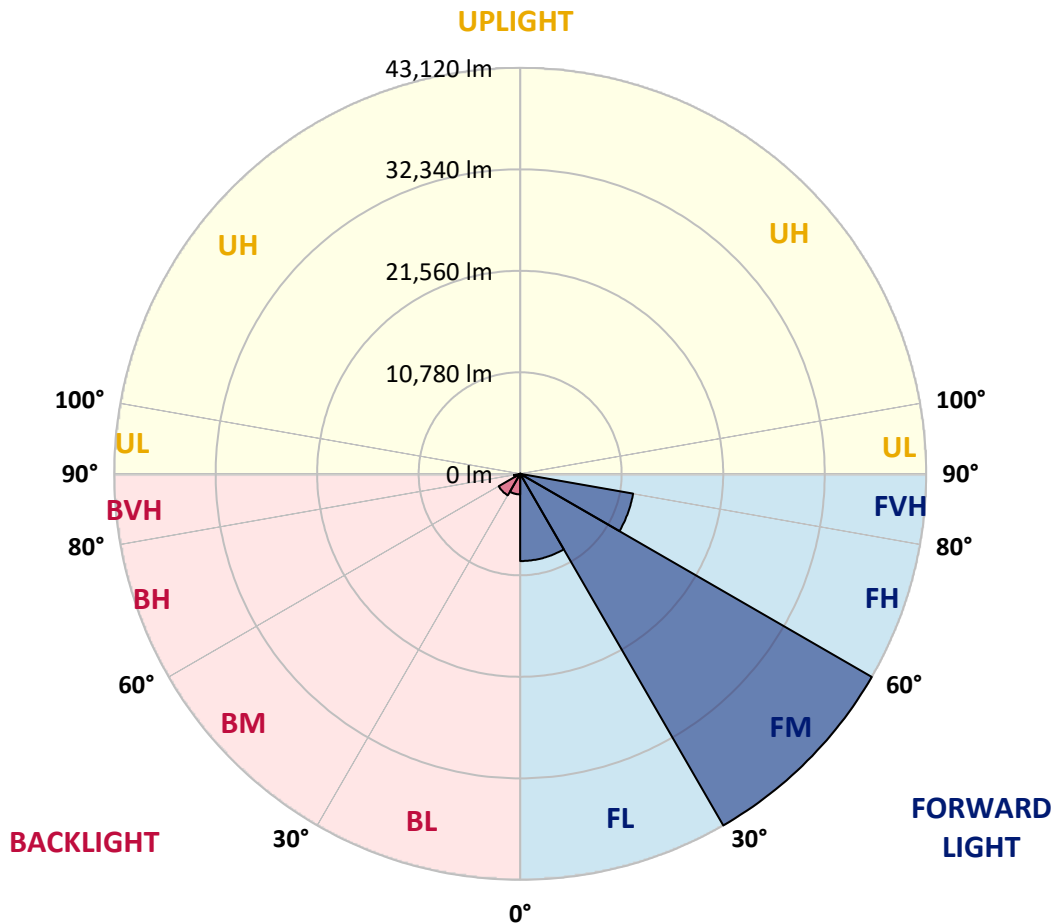
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9264.8	13.2			
FM (30°-60°)	43119.6	61.5			
FH (60°-80°)	12174.8	17.4			G5
FVH (80°-90°)	119.7	0.2			G2/225
BL (0°-30°)	2187.4	3.1	B3/2500		
BM (30°-60°)	2631.4	3.8	B3/5000		
BH (60°-80°)	651.6	0.9	B2/1000		G2/1000
BVH (80°-90°)	8.7	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-G5

Type II Short



REPORT NUMBER: P955962
 CATALOG NUMBER: GALN-SB8D-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3
2.5°	20977.2	20713.3	20674.4	20622.5	20120.6	19744.3	19199.2	18602.2	17931.6	17248.1
5°	24234.7	24027.1	23988.2	23745.9	23174.8	22534.6	21565.5	20341.3	19091.0	17620.2
7.5°	24866.3	24827.4	25004.8	24996.1	24918.3	24412.1	23594.5	22136.6	20259.1	18078.7
10°	22050.1	22149.6	22677.3	23140.2	24390.5	25117.3	24939.9	23737.2	21461.7	18602.2
12.5°	19484.7	19367.9	19744.3	20267.7	21721.3	23884.3	25498.0	25074.0	22837.4	19194.8
15°	17875.4	17827.8	18039.8	18282.0	19389.5	21569.9	24849.0	26159.8	24161.2	19895.7
17.5°	17360.6	17321.7	17386.5	17447.1	18165.2	19852.4	23304.6	26826.1	25428.7	20696.0
20°	17780.2	17728.3	17719.7	17672.1	17970.6	19121.3	21907.3	26873.7	26566.5	21422.8
22.5°	19004.5	18943.9	18732.0	18541.6	18567.6	19220.8	21284.3	26397.8	27423.1	22102.0
25°	21223.8	21124.3	20683.0	20042.8	19636.1	19913.0	21379.5	25770.5	28240.7	22634.1
27.5°	24001.1	23871.3	23304.6	22352.9	21422.8	21085.3	22067.4	25337.9	28919.9	23040.7
30°	26722.2	26553.5	25995.5	25255.7	23897.3	22833.1	23309.0	25528.2	29728.9	23464.7
32.5°	29659.7	29499.6	28759.8	27842.7	26717.9	25286.0	25009.1	26458.3	30719.5	24057.4
35°	33375.8	33124.8	32073.6	30823.4	29629.4	28180.1	27310.6	28063.3	32039.0	24961.5
37.5°	37606.7	37269.2	36135.8	34409.7	32852.3	31230.0	30113.9	30269.6	33972.8	26172.8
40°	41595.3	41288.2	40241.3	38614.7	36659.3	34690.9	33501.2	33155.1	36642.0	27648.0
42.5°	43987.7	43710.8	43269.5	42581.7	40933.4	38926.1	37425.0	36676.6	39800.0	29413.1
45°	44121.8	43879.5	44472.2	45272.5	44948.0	43611.3	41781.4	40410.0	42971.0	31070.0
47.5°	41976.0	41811.6	43611.3	46405.9	47798.9	48361.3	46674.2	43831.9	45588.3	32259.6
50°	36127.2	36066.6	39769.7	44900.5	48884.8	52523.0	51835.2	47015.9	47617.2	32873.9
52.5°	31325.2	31104.6	33263.3	40081.2	47305.8	54712.0	56879.4	50139.4	49036.2	32990.7
55°	23758.9	23564.2	26272.3	32017.4	42214.0	53933.3	60569.5	53362.3	50052.8	32692.2
57.5°	12744.7	12623.5	16045.5	21310.3	32999.4	49261.2	61235.8	56771.2	50909.4	31900.6
60°	4962.0	4940.4	6220.9	10339.3	20055.7	40076.9	57874.4	58817.5	51445.8	30927.2
62.5°	3002.3	3067.2	3274.8	4641.9	8859.8	24896.6	50126.4	56490.0	51804.9	30036.0
65°	2483.2	2487.5	2513.5	3188.3	4243.9	10417.2	37736.5	48832.9	50918.0	28448.3
67.5°	2128.4	2167.4	2266.9	2530.8	2993.7	4568.3	21725.6	37827.3	45523.4	24753.9
70°	1678.5	1730.4	1855.9	2080.8	2310.1	2859.5	8029.2	25169.2	34777.4	18658.4
72.5°	1414.6	1410.3	1475.2	1691.5	1834.3	2011.6	3088.8	14103.0	20211.5	8907.4
75°	1094.5	1137.8	1220.0	1414.6	1501.2	1457.9	1674.2	5152.4	7241.9	2699.5
77.5°	856.6	891.2	964.7	1155.1	1241.6	1033.9	964.7	1842.9	2327.4	969.0
80°	385.0	415.3	657.6	852.2	1012.3	713.8	523.5	943.1	1033.9	441.3
82.5°	69.2	116.8	385.0	449.9	519.1	462.9	272.5	488.8	506.2	177.4
85°	4.3	8.7	134.1	164.4	207.7	151.4	82.2	194.7	168.7	60.6
87.5°	0.0	0.0	0.0	4.3	4.3	21.6	26.0	34.6	26.0	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955962
 CATALOG NUMBER: GALN-SB8D-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
16906.3	0°	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3	16906.3
16945.3	2.5°	16633.8	16019.5	15422.5	14933.7	14648.1	14163.6	13843.5	13791.6	13657.5	13774.3
16988.5	5°	16313.7	15214.8	14103.0	13108.0	12290.4	11234.8	10447.5	10114.4	9824.5	9924.0
17101.0	7.5°	16162.3	14427.5	12697.1	10996.9	9249.2	7562.0	6307.4	5784.0	5386.0	5442.2
17226.5	10°	15958.9	13609.9	10897.4	8301.8	5961.3	4295.8	3430.6	3110.5	2933.1	2937.4
17412.5	12.5°	15803.2	12632.2	8807.9	5628.2	3629.6	2742.7	2474.5	2396.7	2344.7	2349.1
17693.7	15°	15725.3	11481.4	6744.4	3750.7	2595.7	2323.1	2258.2	2223.6	2189.0	2184.7
18005.2	17.5°	15595.5	10200.9	4936.1	2738.4	2271.2	2176.0	2119.8	2080.8	2037.6	2028.9
18273.4	20°	15400.9	8747.3	3608.0	2314.5	2128.4	2054.9	1977.0	1925.1	1873.2	1864.5
18442.1	22.5°	15041.8	7211.6	2773.0	2141.4	2024.6	1942.4	1847.2	1786.7	1734.8	1726.1
18359.9	25°	14375.6	5771.0	2336.1	2033.3	1933.8	1834.3	1730.4	1648.2	1600.7	1592.0
18182.5	27.5°	13532.0	4533.7	2119.8	1933.8	1817.0	1726.1	1609.3	1531.4	1488.2	1479.5
17948.9	30°	12537.0	3491.2	1994.3	1821.3	1678.5	1600.7	1496.8	1431.9	1406.0	1406.0
17784.5	32.5°	11464.1	2790.3	1942.4	1708.8	1557.4	1470.9	1388.7	1362.7	1354.1	1349.7
17875.4	35°	10456.2	2422.6	1916.5	1618.0	1449.2	1367.0	1332.4	1336.8	1354.1	1354.1
18156.6	37.5°	9560.7	2305.8	1903.5	1553.1	1354.1	1280.5	1302.2	1341.1	1323.8	1323.8
18649.8	40°	8751.7	2318.8	1894.8	1505.5	1276.2	1232.9	1276.2	1245.9	1202.7	1198.3
19251.1	42.5°	8133.0	2426.9	1877.5	1466.5	1228.6	1198.3	1181.0	1133.4	1129.1	1137.8
19874.0	45°	7683.1	2522.1	1873.2	1449.2	1176.7	1120.5	1098.8	1051.2	1137.8	1159.4
20129.3	47.5°	7151.0	2522.1	1873.2	1388.7	1090.2	1068.5	1033.9	982.0	1068.5	1090.2
19887.0	50°	6463.2	2362.0	1799.7	1319.5	1021.0	1008.0	947.4	882.5	865.2	878.2
19320.3	52.5°	5593.6	2072.2	1613.6	1224.3	951.7	925.8	852.2	804.7	791.7	791.7
18303.7	55°	4603.0	1734.8	1362.7	1085.8	878.2	830.6	778.7	757.1	744.1	735.4
16880.4	57.5°	3742.1	1423.3	1094.5	964.7	809.0	748.4	731.1	705.2	683.5	670.5
15690.7	60°	3071.5	1120.5	904.2	856.6	739.8	683.5	679.2	644.6	588.3	579.7
14708.7	62.5°	2370.7	822.0	761.4	744.1	670.5	623.0	614.3	545.1	458.6	441.3
13315.7	65°	1674.2	640.3	614.3	653.2	597.0	553.7	532.1	428.3	337.4	324.5
11144.0	67.5°	1176.7	536.4	484.5	571.0	519.1	462.9	449.9	363.4	281.2	272.5
8427.2	70°	839.3	436.9	398.0	488.8	415.3	406.7	380.7	302.8	229.3	220.6
4170.3	72.5°	592.7	333.1	307.2	424.0	285.5	350.4	311.5	233.6	173.0	164.4
1419.0	75°	436.9	237.9	216.3	246.6	207.7	263.9	220.6	155.7	108.2	103.8
640.3	77.5°	320.1	151.4	129.8	121.1	121.1	164.4	121.1	64.9	47.6	43.3
324.5	80°	225.0	69.2	60.6	51.9	47.6	38.9	17.3	8.7	4.3	4.3
112.5	82.5°	134.1	30.3	30.3	21.6	13.0	0.0	0.0	0.0	0.0	0.0
43.3	85°	30.3	13.0	13.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0
17.3	87.5°	4.3	4.3	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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