

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: P957495

Luminaire Tested: **GALN-SB9D-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957495
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-SB9D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 71010 lumens
Efficiency: N/A
Efficacy: 107.9 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

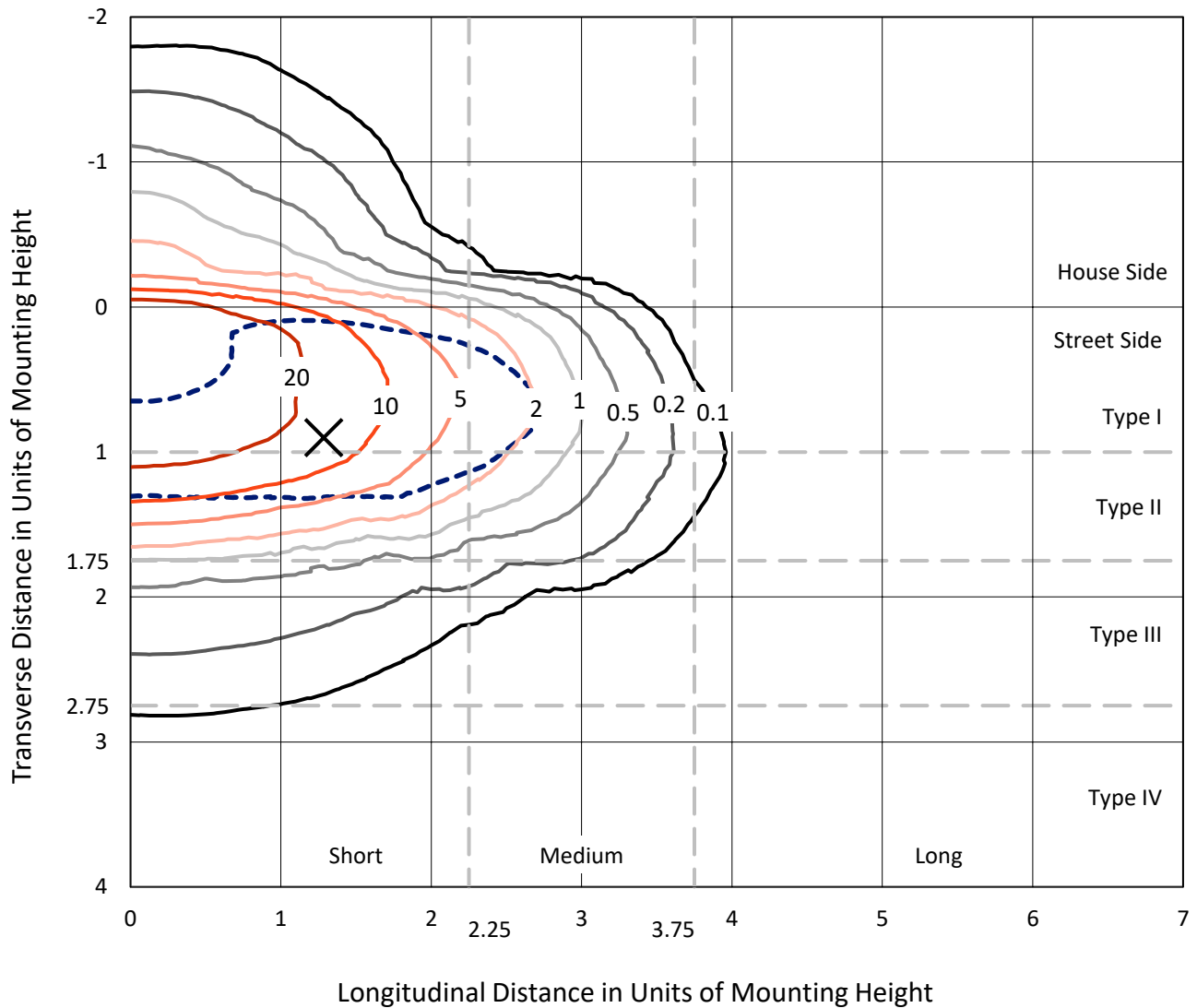
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

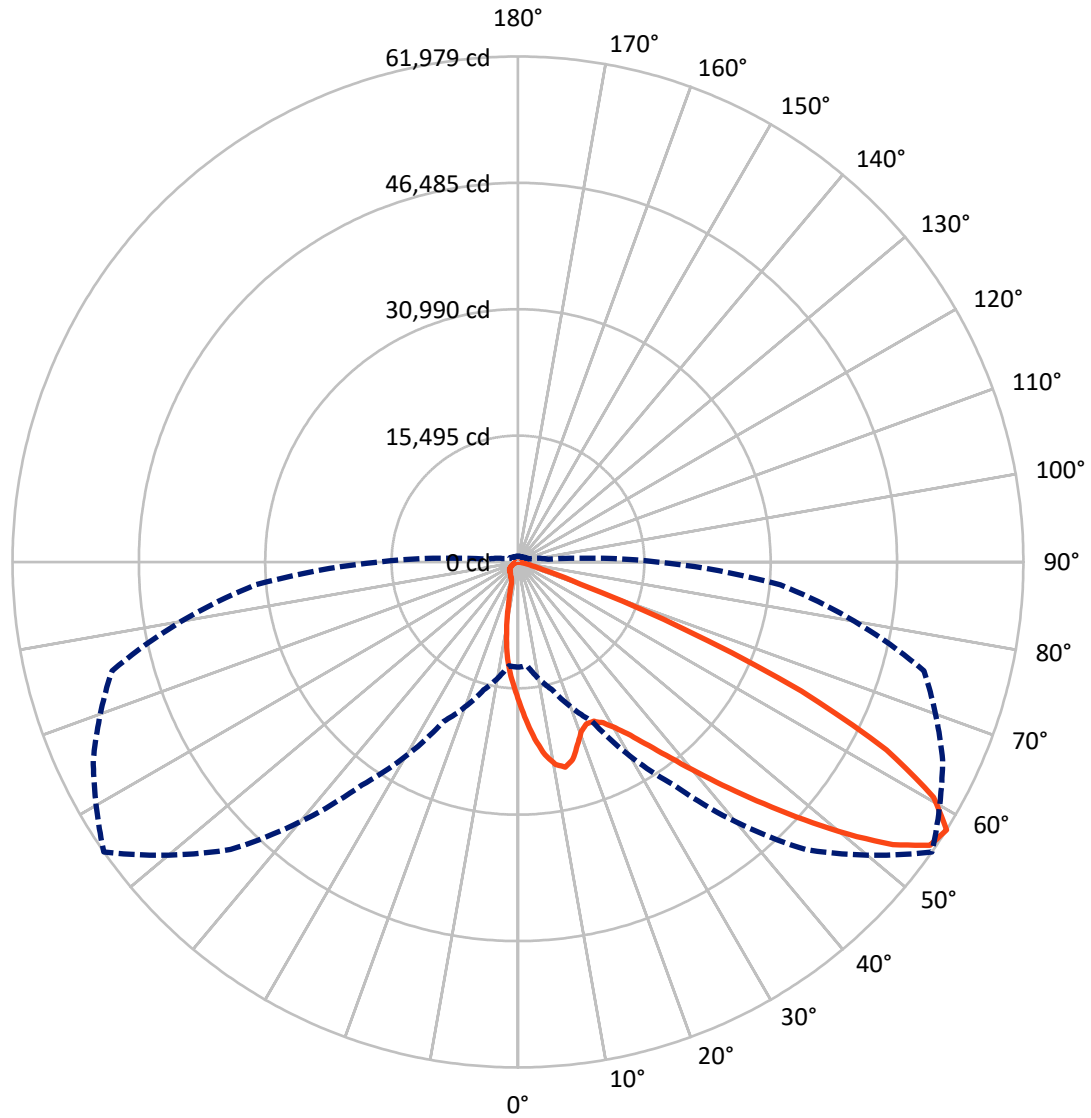
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 39.2 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	5545.6	0.0	5545.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	65464.4	0.0	65464.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	71010.0	0.0	71010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1592.1	2.2
10°-20°	3845.8	5.4
20°-30°	6153.3	8.7
30°-40°	10414.8	14.7
40°-50°	17098.9	24.1
50°-60°	18792.9	26.5
60°-70°	10779.6	15.2
70°-80°	2202.6	3.1
80°-90°	129.9	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°	71010.0	100.0
0°-180°	71010.0	100.0

Coefficient of Utilization



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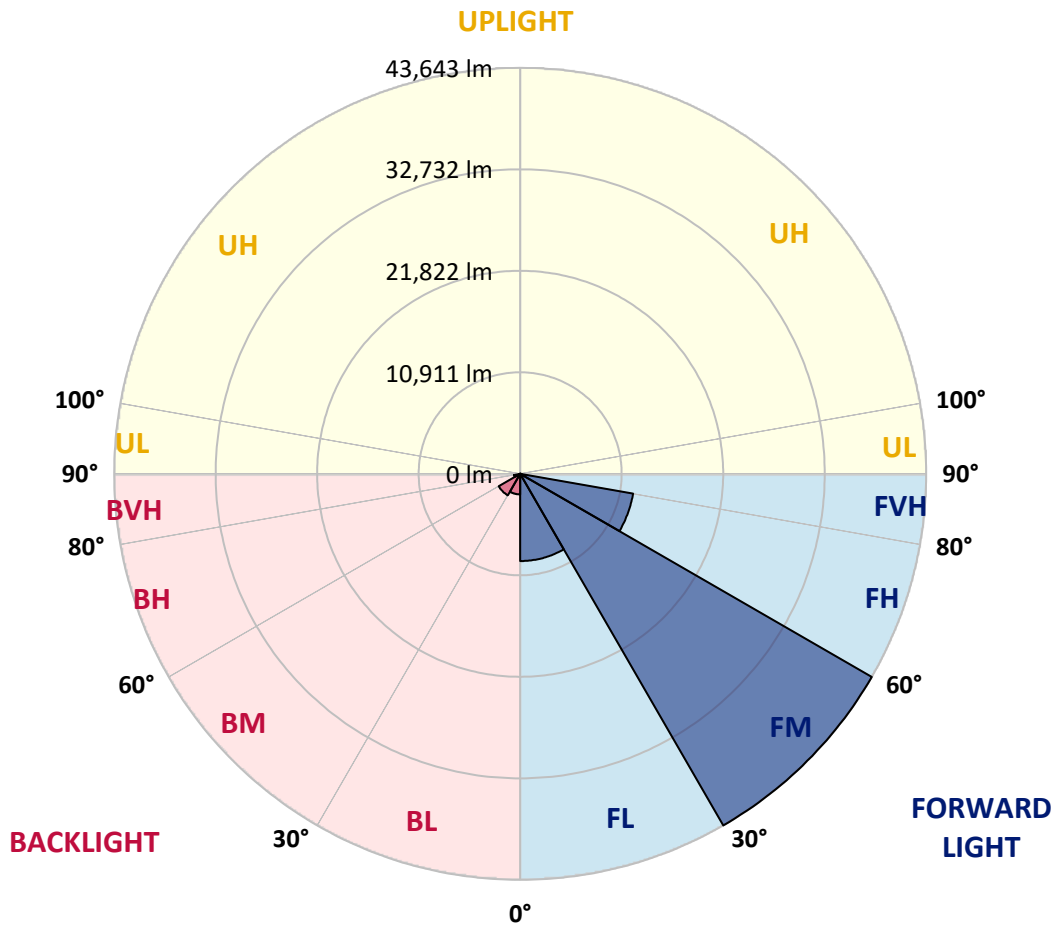
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9377.3	13.2			
FM (30°-60°)	43643.3	61.5			
FH (60°-80°)	12322.7	17.4			G5
FVH (80°-90°)	121.2	0.2			G2/225
BL (0°-30°)	2213.9	3.1	B3/2500		
BM (30°-60°)	2663.3	3.8	B3/5000		
BH (60°-80°)	659.5	0.9	B2/1000		G2/1000
BVH (80°-90°)	8.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7
2.5°	21231.9	20964.8	20925.4	20872.9	20365.0	19984.0	19432.3	18828.1	18149.4	17457.6
5°	24529.0	24318.9	24279.5	24034.3	23456.3	22808.2	21827.4	20588.3	19322.9	17834.1
7.5°	25168.3	25128.9	25308.4	25299.7	25220.9	24708.6	23881.0	22405.4	20505.1	18298.3
10°	22317.8	22418.6	22952.7	23421.3	24686.7	25422.3	25242.8	24025.5	21722.4	18828.1
12.5°	19721.3	19603.1	19984.0	20513.9	21985.1	24174.4	25807.6	25378.5	23114.8	19428.0
15°	18092.5	18044.3	18258.9	18504.1	19625.0	21831.8	25150.8	26477.5	24454.6	20137.3
17.5°	17571.4	17532.0	17597.7	17659.0	18385.8	20093.5	23587.6	27151.8	25737.5	20947.3
20°	17996.1	17943.6	17934.8	17886.7	18188.8	19353.5	22173.3	27200.0	26889.1	21682.9
22.5°	19235.3	19174.0	18959.4	18766.8	18793.1	19454.2	21542.8	26718.4	27756.1	22370.4
25°	21481.5	21380.8	20934.2	20286.2	19874.6	20154.8	21639.2	26083.5	28583.7	22909.0
27.5°	24292.6	24161.2	23587.6	22624.3	21682.9	21341.4	22335.4	25645.6	29271.1	23320.5
30°	27046.8	26876.0	26311.1	25562.4	24187.5	23110.4	23592.0	25838.3	30089.9	23749.7
32.5°	30019.8	29857.8	29109.1	28180.8	27042.4	25593.1	25312.8	26779.7	31092.6	24349.5
35°	33781.1	33527.1	32463.1	31197.7	29989.2	28522.4	27642.2	28404.1	32428.1	25264.7
37.5°	38063.4	37721.8	36574.6	34827.6	33251.3	31609.3	30479.6	30637.2	34385.3	26490.7
40°	42100.5	41789.6	40730.0	39083.6	37104.5	35112.2	33908.1	33557.8	37086.9	27983.8
42.5°	44521.8	44241.6	43795.0	43098.8	41430.5	39398.9	37879.5	37122.0	40283.3	29770.3
45°	44657.6	44412.4	45012.2	45822.3	45493.9	44140.9	42288.7	40900.7	43492.9	31447.3
47.5°	42485.8	42319.4	44140.9	46969.5	48379.4	48948.6	47241.0	44364.2	46141.9	32651.4
50°	36565.9	36504.6	40252.7	45445.7	49478.4	53160.9	52464.7	47586.9	48195.5	33273.2
52.5°	31705.6	31482.3	33667.2	40567.9	47880.2	55376.4	57570.1	50748.2	49631.7	33391.4
55°	24047.4	23850.4	26591.4	32406.2	42726.6	54588.3	61305.1	54010.3	50660.7	33089.3
57.5°	12899.4	12776.8	16240.3	21569.1	33400.1	49859.4	61979.4	57460.7	51527.6	32288.0
60°	5022.3	5000.4	6296.5	10464.9	20299.3	40563.6	58577.2	59531.8	52070.6	31302.8
62.5°	3038.8	3104.4	3314.6	4698.3	8967.4	25199.0	50735.1	57176.1	52434.0	30400.8
65°	2513.3	2517.7	2544.0	3227.0	4295.4	10543.7	38194.7	49425.9	51536.4	28793.8
67.5°	2154.3	2193.7	2294.4	2561.5	3030.0	4623.8	21989.4	38286.7	46076.3	25054.5
70°	1698.9	1751.4	1878.4	2106.1	2338.2	2894.3	8126.7	25474.8	35199.8	18885.0
72.5°	1431.8	1427.4	1493.1	1712.0	1856.5	2036.1	3126.3	14274.3	20456.9	9015.6
75°	1107.8	1151.6	1234.8	1431.8	1519.4	1475.6	1694.5	5214.9	7329.8	2732.3
77.5°	867.0	902.0	976.4	1169.1	1256.7	1046.5	976.4	1865.3	2355.7	980.8
80°	389.7	420.3	665.6	862.6	1024.6	722.5	529.8	954.5	1046.5	446.6
82.5°	70.1	118.2	389.7	455.4	525.4	468.5	275.9	494.8	512.3	179.5
85°	4.4	8.8	135.7	166.4	210.2	153.3	83.2	197.0	170.8	61.3
87.5°	0.0	0.0	0.0	4.4	4.4	21.9	26.3	35.0	26.3	21.9
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°
17111.7	0°	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7	17111.7
17151.1	2.5°	16835.8	16214.0	15609.8	15115.0	14826.0	14335.6	14011.6	13959.1	13823.3	13941.5
17194.9	5°	16511.8	15399.6	14274.3	13267.2	12439.7	11371.3	10574.4	10237.2	9943.9	10044.6
17308.7	7.5°	16358.5	14602.7	12851.3	11130.5	9361.5	7653.8	6384.0	5854.2	5451.4	5508.3
17435.7	10°	16152.7	13775.1	11029.8	8402.6	6033.7	4348.0	3472.2	3148.2	2968.7	2973.1
17624.0	12.5°	15995.1	12785.6	8914.9	5696.6	3673.7	2776.0	2504.6	2425.8	2373.2	2377.6
17908.6	15°	15916.3	11620.9	6826.3	3796.3	2627.2	2351.3	2285.6	2250.6	2215.6	2211.2
18223.8	17.5°	15784.9	10324.8	4996.0	2771.7	2298.8	2202.4	2145.5	2106.1	2062.3	2053.6
18495.3	20°	15587.9	8853.6	3651.8	2342.6	2154.3	2079.8	2001.0	1948.5	1895.9	1887.2
18666.1	22.5°	15224.5	7299.2	2806.7	2167.4	2049.2	1966.0	1869.7	1808.4	1755.8	1747.1
18582.9	25°	14550.2	5841.1	2364.5	2058.0	1957.2	1856.5	1751.4	1668.3	1620.1	1611.3
18403.4	27.5°	13696.3	4588.8	2145.5	1957.2	1839.0	1747.1	1628.8	1550.0	1506.2	1497.5
18166.9	30°	12689.3	3533.5	2018.5	1843.4	1698.9	1620.1	1515.0	1449.3	1423.1	1423.1
18000.5	32.5°	11603.4	2824.2	1966.0	1729.6	1576.3	1488.7	1405.5	1379.3	1370.5	1366.1
18092.5	35°	10583.1	2452.0	1939.7	1637.6	1466.8	1383.6	1348.6	1353.0	1370.5	1370.5
18377.1	37.5°	9676.8	2333.8	1926.6	1571.9	1370.5	1296.1	1318.0	1357.4	1339.9	1339.9
18876.2	40°	8858.0	2346.9	1917.8	1523.8	1291.7	1247.9	1291.7	1261.0	1217.3	1212.9
19484.9	42.5°	8231.8	2456.4	1900.3	1484.4	1243.5	1212.9	1195.4	1147.2	1142.8	1151.6
20115.4	45°	7776.4	2552.7	1895.9	1466.8	1191.0	1134.1	1112.2	1064.0	1151.6	1173.5
20373.7	47.5°	7237.9	2552.7	1895.9	1405.5	1103.4	1081.5	1046.5	993.9	1081.5	1103.4
20128.5	50°	6541.7	2390.7	1821.5	1335.5	1033.4	1020.2	958.9	893.2	875.7	888.9
19554.9	52.5°	5661.6	2097.4	1633.2	1239.2	963.3	937.0	862.6	814.4	801.3	801.3
18526.0	55°	4658.9	1755.8	1379.3	1099.0	888.9	840.7	788.2	766.3	753.1	744.4
17085.4	57.5°	3787.5	1440.6	1107.8	976.4	818.8	757.5	740.0	713.7	691.8	678.7
15881.3	60°	3108.8	1134.1	915.1	867.0	748.7	691.8	687.4	652.4	595.5	586.7
14887.3	62.5°	2399.5	831.9	770.6	753.1	678.7	630.5	621.8	551.7	464.1	446.6
13477.4	65°	1694.5	648.0	621.8	661.2	604.3	560.5	538.6	433.5	341.5	328.4
11279.3	67.5°	1191.0	542.9	490.4	578.0	525.4	468.5	455.4	367.8	284.6	275.9
8529.6	70°	849.5	442.2	402.8	494.8	420.3	411.6	385.3	306.5	232.1	223.3
4221.0	72.5°	599.9	337.2	310.9	429.1	289.0	354.7	315.3	236.4	175.1	166.4
1436.2	75°	442.2	240.8	218.9	249.6	210.2	267.1	223.3	157.6	109.5	105.1
648.0	77.5°	324.0	153.3	131.4	122.6	122.6	166.4	122.6	65.7	48.2	43.8
328.4	80°	227.7	70.1	61.3	52.5	48.2	39.4	17.5	8.8	4.4	4.4
113.8	82.5°	135.7	30.7	30.7	21.9	13.1	0.0	0.0	0.0	0.0	0.0
43.8	85°	30.7	13.1	13.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
17.5	87.5°	4.4	4.4	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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