

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: P955710

Luminaire Tested: **GALN-SB8C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955710
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-SB8C-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 46395 lumens
Efficiency: N/A
Efficacy: 116.0 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

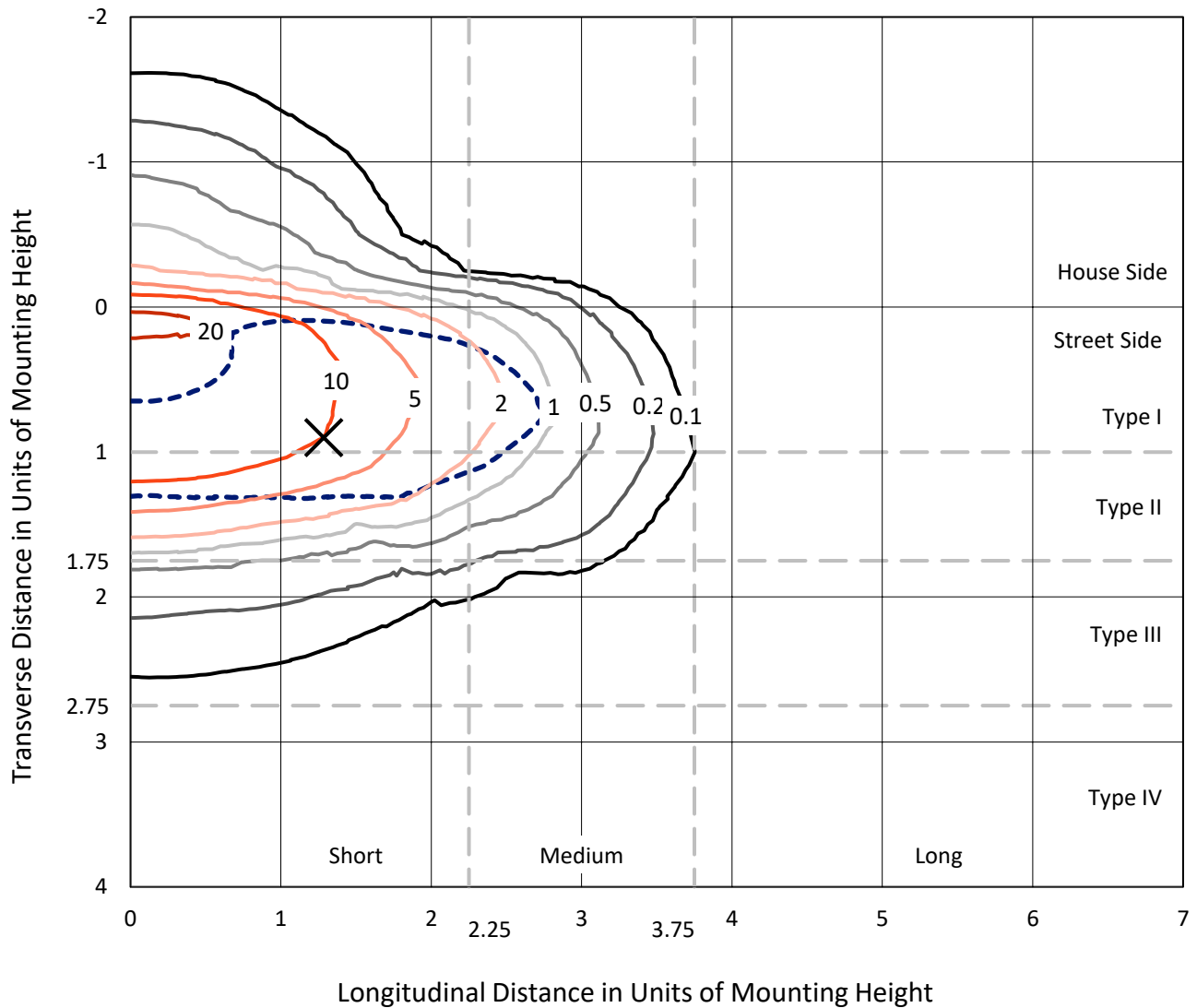
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

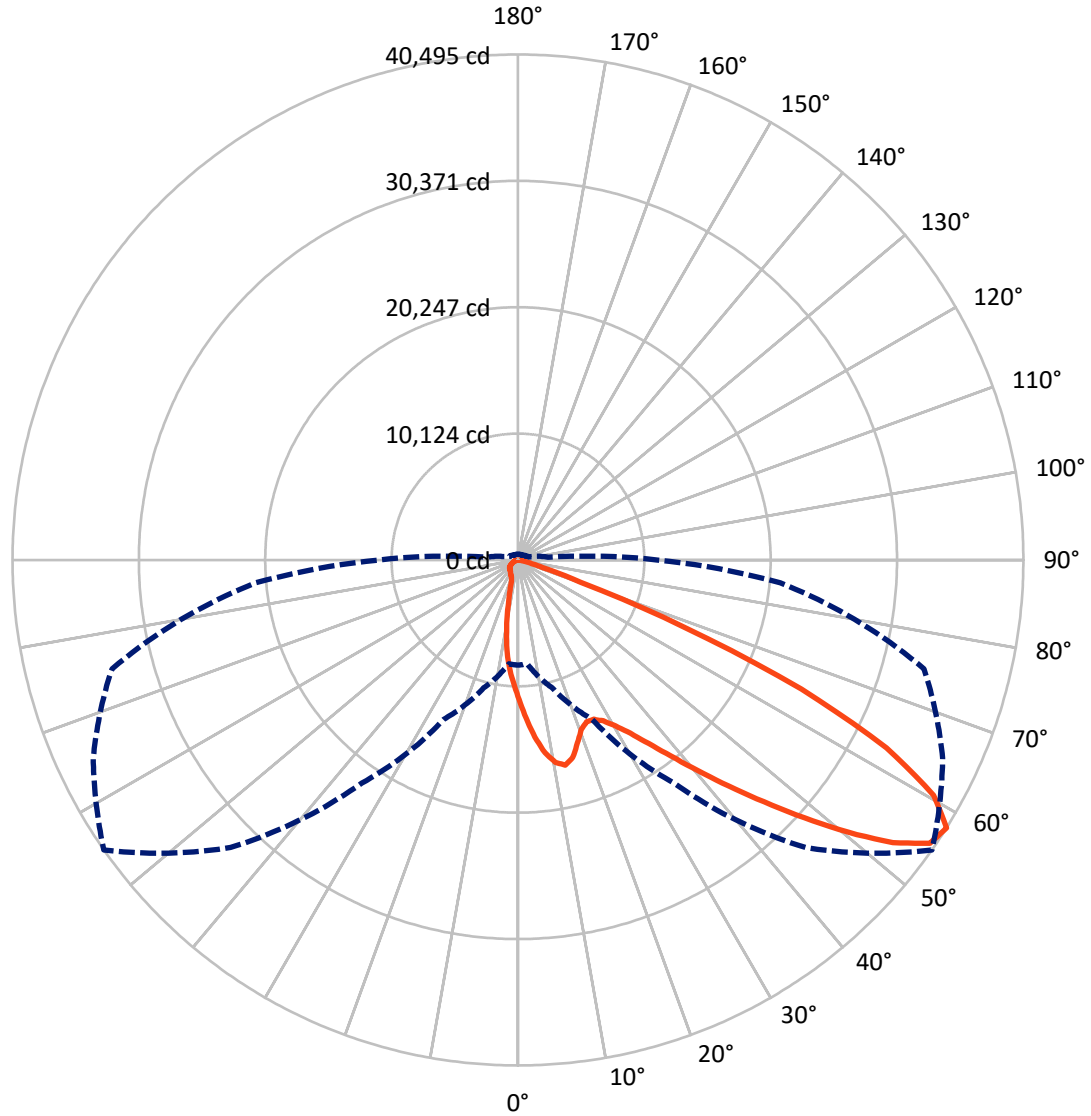
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.6 fc
 Type II - Short - N/A

REPORT NUMBER: P955710
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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	3623.3	0.0	3623.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	42771.7	0.0	42771.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	46395.0	0.0	46395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.2	2.2
10°-20°	2512.7	5.4
20°-30°	4020.3	8.7
30°-40°	6804.6	14.7
40°-50°	11171.7	24.1
50°-60°	12278.5	26.5
60°-70°	7043.0	15.2
70°-80°	1439.1	3.1
80°-90°	84.9	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°	46395.0	100.0
0°-180°	46395.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955710

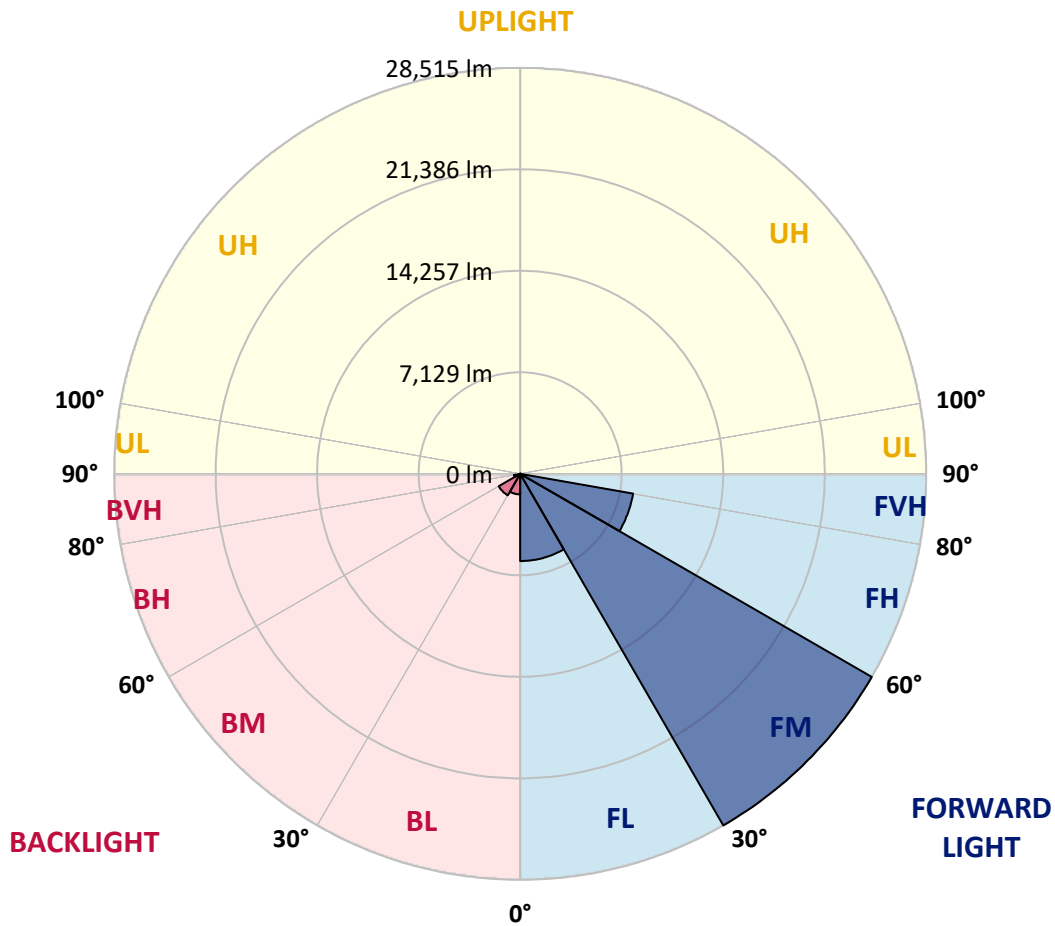
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6126.7	13.2			
FM (30°-60°)	28514.7	61.5			
FH (60°-80°)	8051.1	17.4			G4/12000
FVH (80°-90°)	79.2	0.2			G1/100
BL (0°-30°)	1446.5	3.1	B3/2500		
BM (30°-60°)	1740.1	3.8	B2/2500		
BH (60°-80°)	430.9	0.9	B1/500		G1/500
BVH (80°-90°)	5.7	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1
2.5°	13872.1	13697.6	13671.8	13637.5	13305.6	13056.7	12696.3	12301.5	11858.1	11406.1
5°	16026.3	15888.9	15863.2	15703.0	15325.4	14902.0	14261.1	13451.5	12624.8	11652.1
7.5°	16443.9	16418.2	16535.5	16529.8	16478.3	16143.6	15602.9	14638.8	13397.2	11955.3
10°	14581.6	14647.4	14996.4	15302.5	16129.3	16609.9	16492.6	15697.3	14192.5	12301.5
12.5°	12885.1	12807.9	13056.7	13402.9	14364.1	15794.5	16861.6	16581.3	15102.2	12693.4
15°	11820.9	11789.4	11929.6	12089.8	12822.2	14264.0	16432.5	17299.3	15977.6	13156.9
17.5°	11480.4	11454.7	11497.6	11537.7	12012.5	13128.3	15411.2	17739.9	16815.9	13686.1
20°	11757.9	11723.6	11717.9	11686.4	11883.8	12644.8	14487.1	17771.4	17568.2	14166.7
22.5°	12567.5	12527.5	12387.3	12261.4	12278.6	12710.6	14075.2	17456.7	18134.7	14615.9
25°	14035.1	13969.3	13677.5	13254.1	12985.2	13168.3	14138.1	17041.9	18675.4	14967.8
27.5°	15871.8	15786.0	15411.2	14781.8	14166.7	13943.6	14593.0	16755.8	19124.5	15236.7
30°	17671.2	17559.7	17190.6	16701.4	15803.1	15099.4	15414.1	16881.6	19659.5	15517.0
32.5°	19613.7	19507.9	19018.7	18412.2	17668.4	16721.4	16538.4	17496.7	20314.6	15909.0
35°	22071.2	21905.2	21210.1	20383.3	19593.7	18635.3	18060.3	18558.1	21187.2	16506.9
37.5°	24869.0	24645.9	23896.4	22754.9	21725.0	20652.2	19914.1	20017.1	22466.0	17307.9
40°	27506.7	27303.6	26611.3	25535.6	24242.5	22940.8	22154.1	21925.3	24231.1	18283.4
42.5°	29088.7	28905.6	28613.8	28159.0	27069.0	25741.6	24748.9	24254.0	26319.5	19450.7
45°	29177.4	29017.2	29409.1	29938.4	29723.8	28839.8	27629.7	26722.8	28416.4	20546.3
47.5°	27758.5	27649.7	28839.8	30687.9	31609.1	31981.0	30865.3	28985.7	30147.2	21333.1
50°	23890.6	23850.6	26299.4	29692.4	32327.2	34733.1	34278.2	31091.3	31489.0	21739.3
52.5°	20715.1	20569.2	21996.8	26505.4	31283.0	36180.7	37614.0	33156.8	32427.3	21816.5
55°	15711.6	15582.8	17373.7	21172.9	27915.8	35665.7	40054.2	35288.1	33099.6	21619.2
57.5°	8428.0	8347.8	10610.8	14092.4	21822.3	32576.1	40494.8	37542.4	33666.0	21095.6
60°	3281.4	3267.0	4113.8	6837.3	13262.7	26502.6	38271.9	38895.6	34020.8	20451.9
62.5°	1985.4	2028.3	2165.6	3069.7	5858.9	16464.0	33148.2	37356.5	34258.2	19862.6
65°	1642.1	1645.0	1662.1	2108.4	2806.5	6888.8	24954.9	32292.8	33671.8	18812.7
67.5°	1407.5	1433.3	1499.1	1673.6	1979.7	3021.0	14367.0	25014.9	30104.3	16369.6
70°	1110.0	1144.3	1227.3	1376.1	1527.7	1891.0	5309.7	16644.2	22998.1	12338.7
72.5°	935.5	932.6	975.5	1118.6	1213.0	1330.3	2042.6	9326.2	13365.7	5890.4
75°	723.8	752.4	806.7	935.5	992.7	964.1	1107.1	3407.2	4789.0	1785.1
77.5°	566.4	589.3	638.0	763.8	821.1	683.7	638.0	1218.7	1539.1	640.8
80°	254.6	274.6	434.8	563.6	669.4	472.0	346.2	623.7	683.7	291.8
82.5°	45.8	77.2	254.6	297.5	343.3	306.1	180.2	323.3	334.7	117.3
85°	2.9	5.7	88.7	108.7	137.3	100.1	54.4	128.7	111.6	40.1
87.5°	0.0	0.0	0.0	2.9	2.9	14.3	17.2	22.9	17.2	14.3
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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 CATALOG NUMBER: GALN-SB8C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
11180.1	0°	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1	11180.1
11205.8	2.5°	10999.8	10593.6	10198.8	9875.5	9686.7	9366.3	9154.6	9120.3	9031.6	9108.8
11234.4	5°	10788.1	10061.5	9326.2	8668.3	8127.6	7429.5	6908.9	6688.6	6496.9	6562.7
11308.8	7.5°	10688.0	9540.8	8396.5	7272.2	6116.4	5000.7	4171.1	3824.9	3561.7	3598.9
11391.8	10°	10553.5	9000.1	7206.4	5489.9	3942.2	2840.8	2268.6	2056.9	1939.6	1942.5
11514.8	12.5°	10450.5	8353.6	5824.6	3721.9	2400.2	1813.8	1636.4	1584.9	1550.6	1553.4
11700.7	15°	10399.1	7592.6	4460.0	2480.3	1716.5	1536.3	1493.3	1470.5	1447.6	1444.7
11906.7	17.5°	10313.2	6745.8	3264.2	1810.9	1501.9	1439.0	1401.8	1376.1	1347.4	1341.7
12084.1	20°	10184.5	5784.6	2385.9	1530.5	1407.5	1358.9	1307.4	1273.1	1238.7	1233.0
12195.6	22.5°	9947.0	4769.0	1833.8	1416.1	1338.9	1284.5	1221.6	1181.5	1147.2	1141.5
12141.3	25°	9506.5	3816.3	1544.8	1344.6	1278.8	1213.0	1144.3	1090.0	1058.5	1052.8
12024.0	27.5°	8948.6	2998.1	1401.8	1278.8	1201.5	1141.5	1064.2	1012.7	984.1	978.4
11869.5	30°	8290.6	2308.7	1318.8	1204.4	1110.0	1058.5	989.8	946.9	929.8	929.8
11760.8	32.5°	7581.2	1845.2	1284.5	1130.0	1029.9	972.7	918.3	901.2	895.4	892.6
11820.9	35°	6914.6	1602.1	1267.3	1069.9	958.4	904.0	881.1	884.0	895.4	895.4
12006.8	37.5°	6322.4	1524.8	1258.8	1027.0	895.4	846.8	861.1	886.9	875.4	875.4
12333.0	40°	5787.4	1533.4	1253.0	995.6	843.9	815.3	843.9	823.9	795.3	792.4
12730.6	42.5°	5378.3	1604.9	1241.6	969.8	812.5	792.4	781.0	749.5	746.7	752.4
13142.6	45°	5080.8	1667.9	1238.7	958.4	778.1	741.0	726.6	695.2	752.4	766.7
13311.4	47.5°	4728.9	1667.9	1238.7	918.3	720.9	706.6	683.7	649.4	706.6	720.9
13151.2	50°	4274.1	1562.0	1190.1	872.5	675.2	666.6	626.5	583.6	572.2	580.7
12776.4	52.5°	3699.0	1370.3	1067.1	809.6	629.4	612.2	563.6	532.1	523.5	523.5
12104.1	55°	3043.9	1147.2	901.2	718.1	580.7	549.3	514.9	500.6	492.1	486.3
11162.9	57.5°	2474.6	941.2	723.8	638.0	535.0	494.9	483.5	466.3	452.0	443.4
10376.2	60°	2031.2	741.0	597.9	566.4	489.2	452.0	449.1	426.3	389.1	383.3
9726.8	62.5°	1567.7	543.6	503.5	492.1	443.4	412.0	406.2	360.5	303.2	291.8
8805.6	65°	1107.1	423.4	406.2	432.0	394.8	366.2	351.9	283.2	223.1	214.6
7369.5	67.5°	778.1	354.7	320.4	377.6	343.3	306.1	297.5	240.3	186.0	180.2
5572.9	70°	555.0	288.9	263.2	323.3	274.6	268.9	251.8	200.3	151.6	145.9
2757.8	72.5°	391.9	220.3	203.1	280.4	188.8	231.7	206.0	154.5	114.4	108.7
938.3	75°	288.9	157.3	143.0	163.1	137.3	174.5	145.9	103.0	71.5	68.7
423.4	77.5°	211.7	100.1	85.8	80.1	80.1	108.7	80.1	42.9	31.5	28.6
214.6	80°	148.8	45.8	40.1	34.3	31.5	25.7	11.4	5.7	2.9	2.9
74.4	82.5°	88.7	20.0	20.0	14.3	8.6	0.0	0.0	0.0	0.0	0.0
28.6	85°	20.0	8.6	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
11.4	87.5°	2.9	2.9	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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