

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: P955353

Luminaire Tested: **GALN-SB8B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955353
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-SB8B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA 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: 34884 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

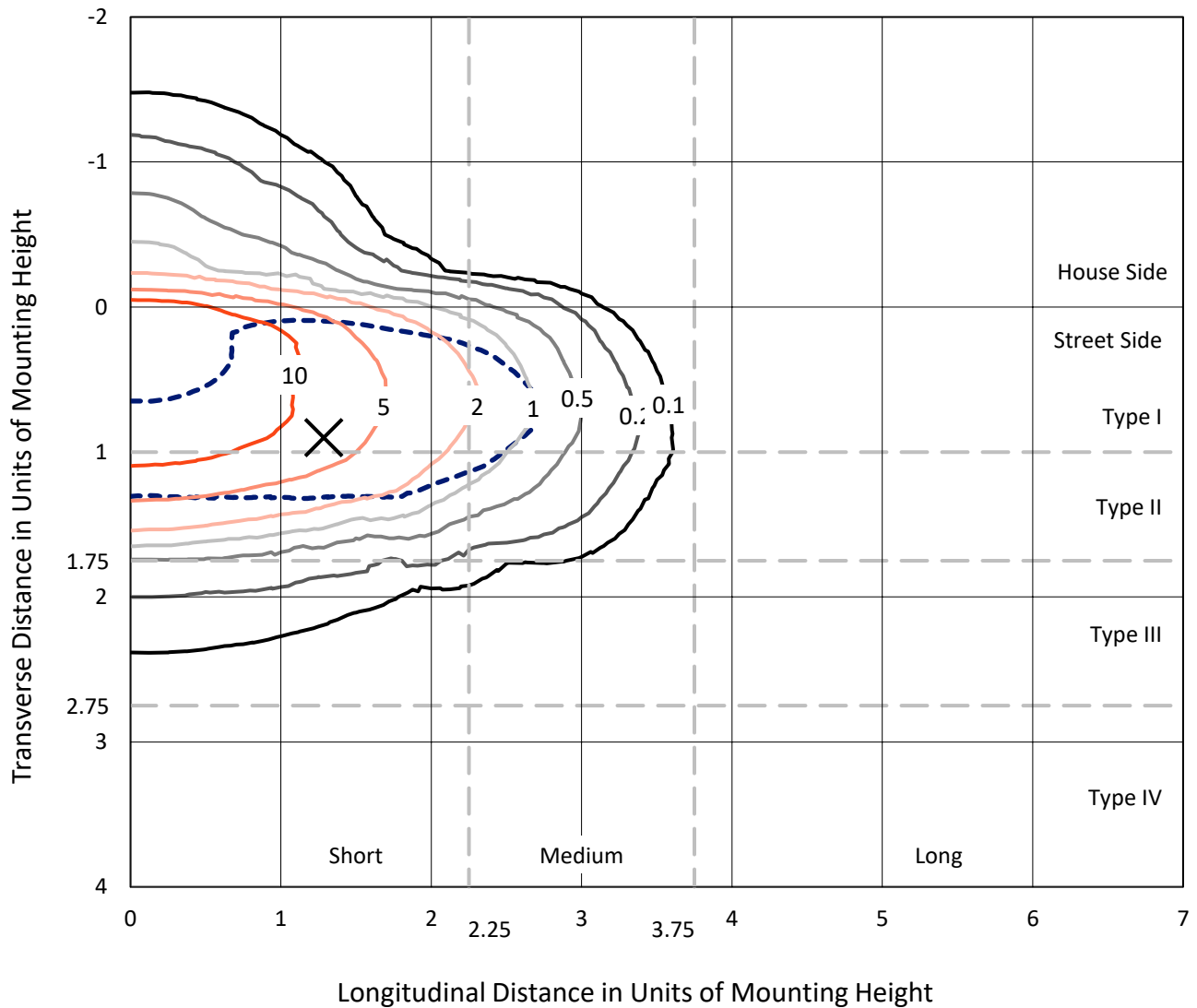
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

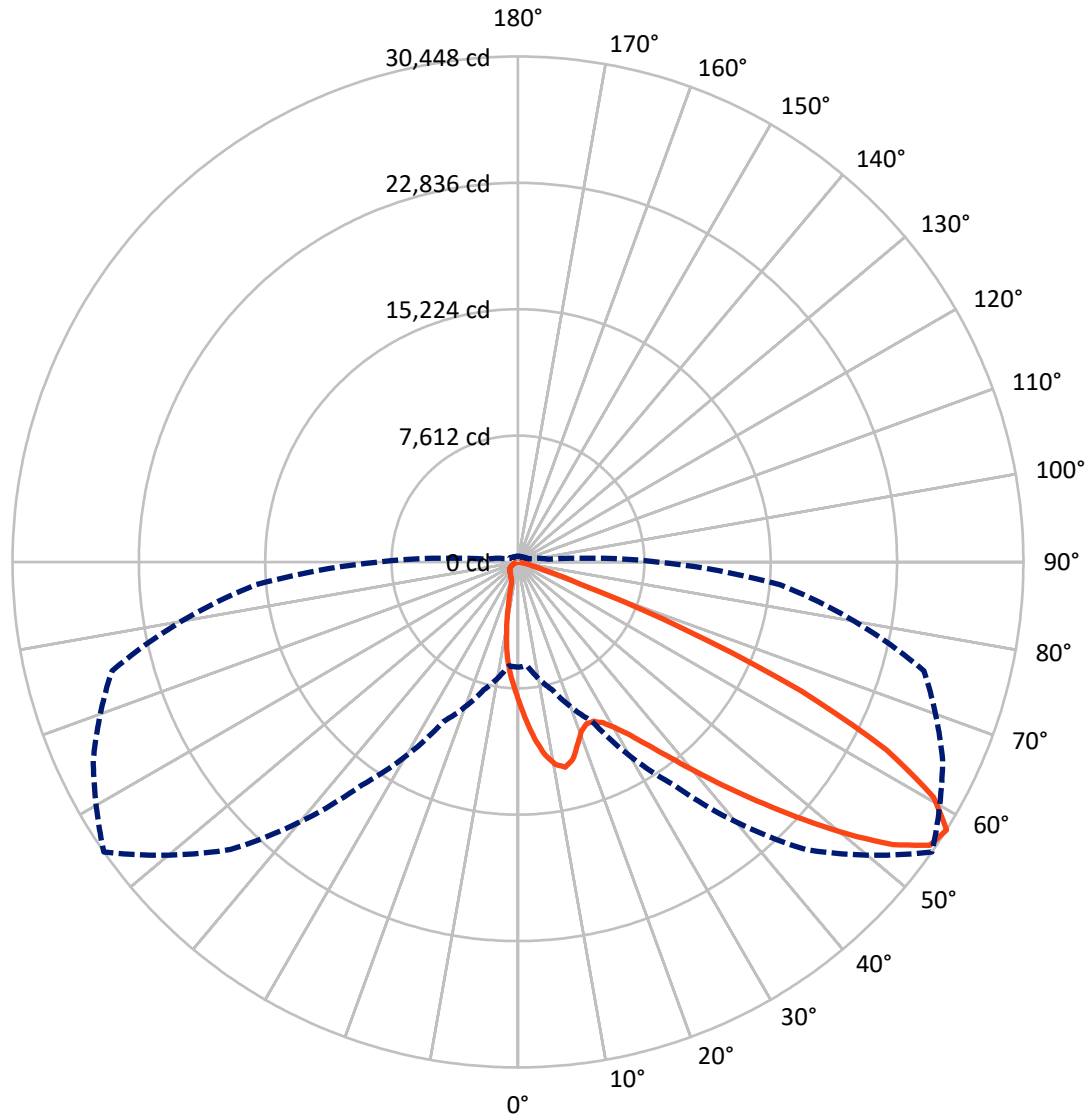
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 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	2724.3	0.0	2724.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	32159.7	0.0	32159.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	34884.0	0.0	34884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.1	2.2
10°-20°	1889.3	5.4
20°-30°	3022.8	8.7
30°-40°	5116.3	14.7
40°-50°	8399.9	24.1
50°-60°	9232.1	26.5
60°-70°	5295.5	15.2
70°-80°	1082.0	3.1
80°-90°	63.8	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°	34884.0	100.0
0°-180°	34884.0	100.0

Coefficient of Utilization



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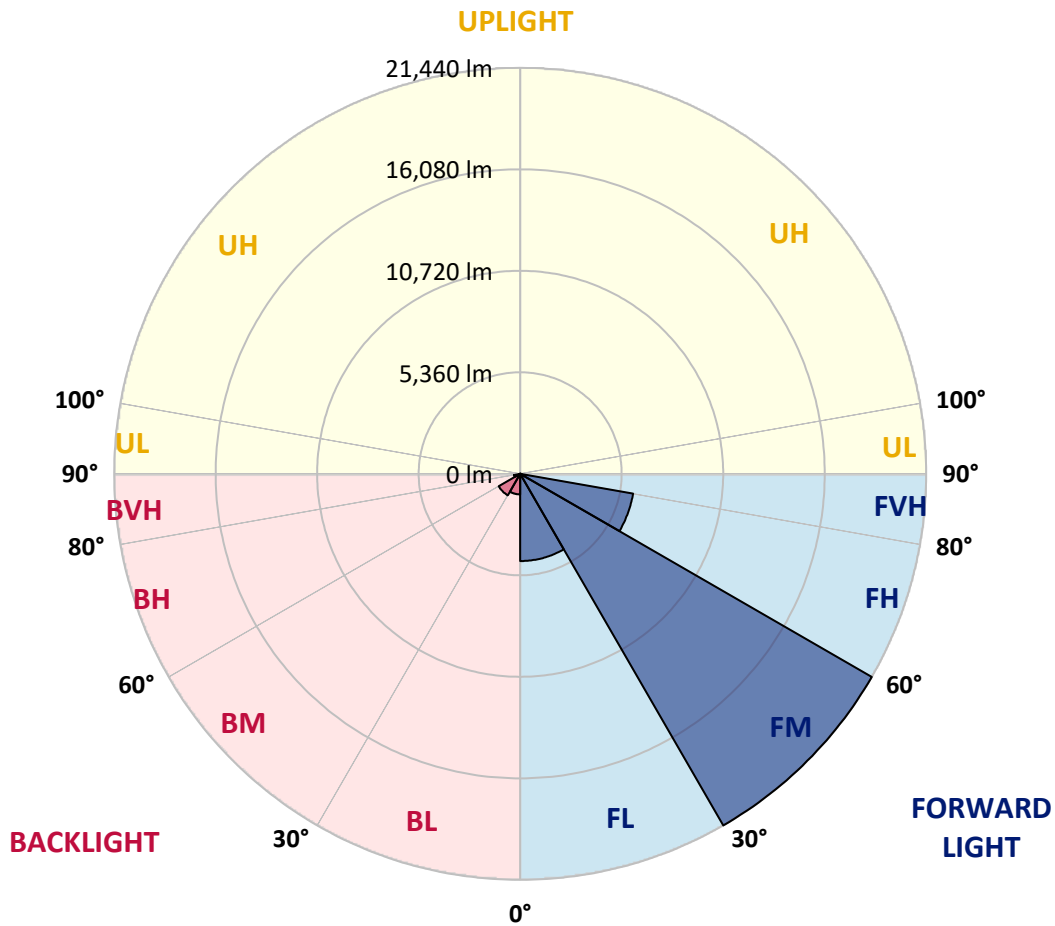
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4606.6	13.2			
FM (30°-60°)	21440.0	61.5			
FH (60°-80°)	6053.6	17.4			G3/7500
FVH (80°-90°)	59.5	0.2			G1/100
BL (0°-30°)	1087.6	3.1	B3/2500		
BM (30°-60°)	1308.4	3.8	B2/2500		
BH (60°-80°)	324.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.3	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2
2.5°	10430.3	10299.1	10279.7	10253.9	10004.4	9817.3	9546.2	9249.4	8916.0	8576.1
5°	12050.0	11946.8	11927.4	11806.9	11523.0	11204.7	10722.8	10114.1	9492.4	8761.1
7.5°	12364.1	12344.7	12432.9	12428.6	12389.9	12138.2	11731.7	11006.8	10073.2	8989.1
10°	10963.7	11013.2	11275.6	11505.8	12127.4	12488.8	12400.6	11802.6	10671.2	9249.4
12.5°	9688.2	9630.1	9817.3	10077.5	10800.3	11875.8	12678.1	12467.3	11355.2	9544.1
15°	8888.0	8864.4	8969.8	9090.2	9640.9	10725.0	12355.5	13007.2	12013.4	9892.5
17.5°	8632.0	8612.7	8644.9	8675.1	9032.1	9871.0	11587.5	13338.5	12643.7	10290.5
20°	8840.7	8814.9	8810.6	8786.9	8935.3	9507.5	10892.8	13362.1	13209.4	10651.8
22.5°	9449.4	9419.3	9313.9	9219.3	9232.2	9557.0	10583.0	13125.5	13635.3	10989.6
25°	10552.9	10503.4	10284.0	9965.7	9763.5	9901.1	10630.3	12813.6	14041.9	11254.1
27.5°	11933.9	11869.3	11587.5	11114.3	10651.8	10484.1	10972.4	12598.5	14379.6	11456.3
30°	13286.8	13203.0	12925.5	12557.7	11882.2	11353.1	11589.7	12693.2	14781.8	11667.1
32.5°	14747.4	14667.8	14300.0	13844.0	13284.7	12572.7	12435.0	13155.6	15274.4	11961.8
35°	16595.1	16470.4	15947.7	15326.0	14732.3	14011.7	13579.4	13953.7	15930.5	12411.4
37.5°	18698.8	18531.0	17967.5	17109.2	16334.8	15528.2	14973.2	15050.7	16892.0	13013.7
40°	20682.1	20529.3	20008.8	19200.0	18227.7	17249.0	16657.5	16485.4	18219.1	13747.2
42.5°	21871.6	21733.9	21514.5	21172.5	20352.9	19354.9	18608.5	18236.3	19789.4	14624.8
45°	21938.2	21817.8	22112.5	22510.4	22349.1	21684.4	20774.5	20092.7	21366.1	15448.6
47.5°	20871.3	20789.6	21684.4	23074.0	23766.6	24046.2	23207.3	21794.1	22667.4	16040.2
50°	17963.2	17933.0	19774.3	22325.4	24306.5	26115.5	25773.5	23377.3	23676.3	16345.6
52.5°	15575.5	15465.8	16539.2	19929.2	23521.4	27203.9	28281.6	24930.3	24381.8	16403.7
55°	11813.4	11716.6	13063.1	15919.7	20989.6	26816.8	30116.4	26532.8	24887.3	16255.3
57.5°	6336.9	6276.7	7978.1	10595.9	16408.0	24493.7	30447.7	28227.8	25313.2	15861.6
60°	2467.2	2456.5	3093.2	5140.9	9972.1	19927.0	28776.3	29245.3	25579.9	15377.6
62.5°	1492.8	1525.1	1628.3	2308.0	4405.3	12379.1	24923.9	28088.0	25758.5	14934.5
65°	1234.7	1236.8	1249.7	1585.3	2110.2	5179.7	18763.3	24280.7	25317.5	14145.1
67.5°	1058.3	1077.7	1127.1	1258.3	1488.5	2271.5	10802.4	18808.5	22635.2	12308.1
70°	834.6	860.4	922.8	1034.6	1148.6	1421.8	3992.3	12514.6	17292.0	9277.3
72.5°	703.4	701.2	733.5	841.0	912.0	1000.2	1535.8	7012.3	10049.6	4428.9
75°	544.2	565.7	606.6	703.4	746.4	724.9	832.4	2561.9	3600.8	1342.2
77.5°	425.9	443.1	479.7	574.3	617.3	514.1	479.7	916.3	1157.2	481.8
80°	191.4	206.5	327.0	423.8	503.3	354.9	260.3	468.9	514.1	219.4
82.5°	34.4	58.1	191.4	223.7	258.1	230.2	135.5	243.1	251.7	88.2
85°	2.2	4.3	66.7	81.7	103.2	75.3	40.9	96.8	83.9	30.1
87.5°	0.0	0.0	0.0	2.2	2.2	10.8	12.9	17.2	12.9	10.8
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°
8406.2	0°	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2	8406.2
8425.5	2.5°	8270.7	7965.2	7668.4	7425.3	7283.4	7042.4	6883.3	6857.5	6790.8	6848.8
8447.1	5°	8111.5	7565.1	7012.3	6517.6	6111.0	5586.2	5194.7	5029.1	4885.0	4934.4
8503.0	7.5°	8036.2	7173.7	6313.2	5467.9	4598.9	3760.0	3136.2	2875.9	2678.0	2706.0
8565.4	10°	7935.1	6767.1	5418.4	4127.8	2964.1	2136.0	1705.8	1546.6	1458.4	1460.5
8657.9	12.5°	7857.7	6281.0	4379.5	2798.5	1804.7	1363.7	1230.4	1191.7	1165.9	1168.0
8797.7	15°	7819.0	5708.8	3353.4	1864.9	1290.6	1155.1	1122.8	1105.6	1088.4	1086.3
8952.5	17.5°	7754.4	5072.1	2454.3	1361.6	1129.3	1082.0	1054.0	1034.6	1013.1	1008.8
9085.9	20°	7657.6	4349.4	1794.0	1150.8	1058.3	1021.7	983.0	957.2	931.4	927.1
9169.8	22.5°	7479.1	3585.7	1378.8	1064.8	1006.7	965.8	918.5	888.4	862.6	858.3
9128.9	25°	7147.8	2869.5	1161.6	1011.0	961.5	912.0	860.4	819.5	795.9	791.6
9040.7	27.5°	6728.4	2254.3	1054.0	961.5	903.4	858.3	800.2	761.5	740.0	735.6
8924.6	30°	6233.7	1735.9	991.6	905.6	834.6	795.9	744.3	712.0	699.1	699.1
8842.8	32.5°	5700.2	1387.4	965.8	849.7	774.4	731.3	690.5	677.6	673.3	671.1
8888.0	35°	5199.0	1204.6	952.9	804.5	720.6	679.7	662.5	664.7	673.3	673.3
9027.8	37.5°	4753.8	1146.5	946.4	772.2	673.3	636.7	647.5	666.8	658.2	658.2
9273.0	40°	4351.5	1152.9	942.1	748.6	634.6	613.0	634.6	619.5	598.0	595.8
9572.0	42.5°	4043.9	1206.7	933.5	729.2	610.9	595.8	587.2	563.6	561.4	565.7
9881.8	45°	3820.2	1254.0	931.4	720.6	585.1	557.1	546.4	522.7	565.7	576.5
10008.7	47.5°	3555.6	1254.0	931.4	690.5	542.1	531.3	514.1	488.3	531.3	542.1
9888.2	50°	3213.6	1174.5	894.8	656.1	507.6	501.2	471.1	438.8	430.2	436.7
9606.5	52.5°	2781.3	1030.3	802.3	608.7	473.2	460.3	423.8	400.1	393.6	393.6
9101.0	55°	2288.7	862.6	677.6	539.9	436.7	413.0	387.2	376.4	370.0	365.7
8393.3	57.5°	1860.6	707.7	544.2	479.7	402.2	372.1	363.5	350.6	339.9	333.4
7801.7	60°	1527.2	557.1	449.6	425.9	367.8	339.9	337.7	320.5	292.5	288.2
7313.5	62.5°	1178.8	408.7	378.6	370.0	333.4	309.7	305.4	271.0	228.0	219.4
6620.8	65°	832.4	318.4	305.4	324.8	296.8	275.3	264.6	213.0	167.8	161.3
5541.0	67.5°	585.1	266.7	240.9	283.9	258.1	230.2	223.7	180.7	139.8	135.5
4190.2	70°	417.3	217.3	197.9	243.1	206.5	202.2	189.3	150.6	114.0	109.7
2073.6	72.5°	294.7	165.6	152.7	210.8	142.0	174.2	154.9	116.2	86.0	81.7
705.5	75°	217.3	118.3	107.6	122.6	103.2	131.2	109.7	77.4	53.8	51.6
318.4	77.5°	159.2	75.3	64.5	60.2	60.2	81.7	60.2	32.3	23.7	21.5
161.3	80°	111.9	34.4	30.1	25.8	23.7	19.4	8.6	4.3	2.2	2.2
55.9	82.5°	66.7	15.1	15.1	10.8	6.5	0.0	0.0	0.0	0.0	0.0
21.5	85°	15.1	6.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
8.6	87.5°	2.2	2.2	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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