

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: P951930

Luminaire Tested: **GALN-SB5D-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951930
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-SB5D-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 31759 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

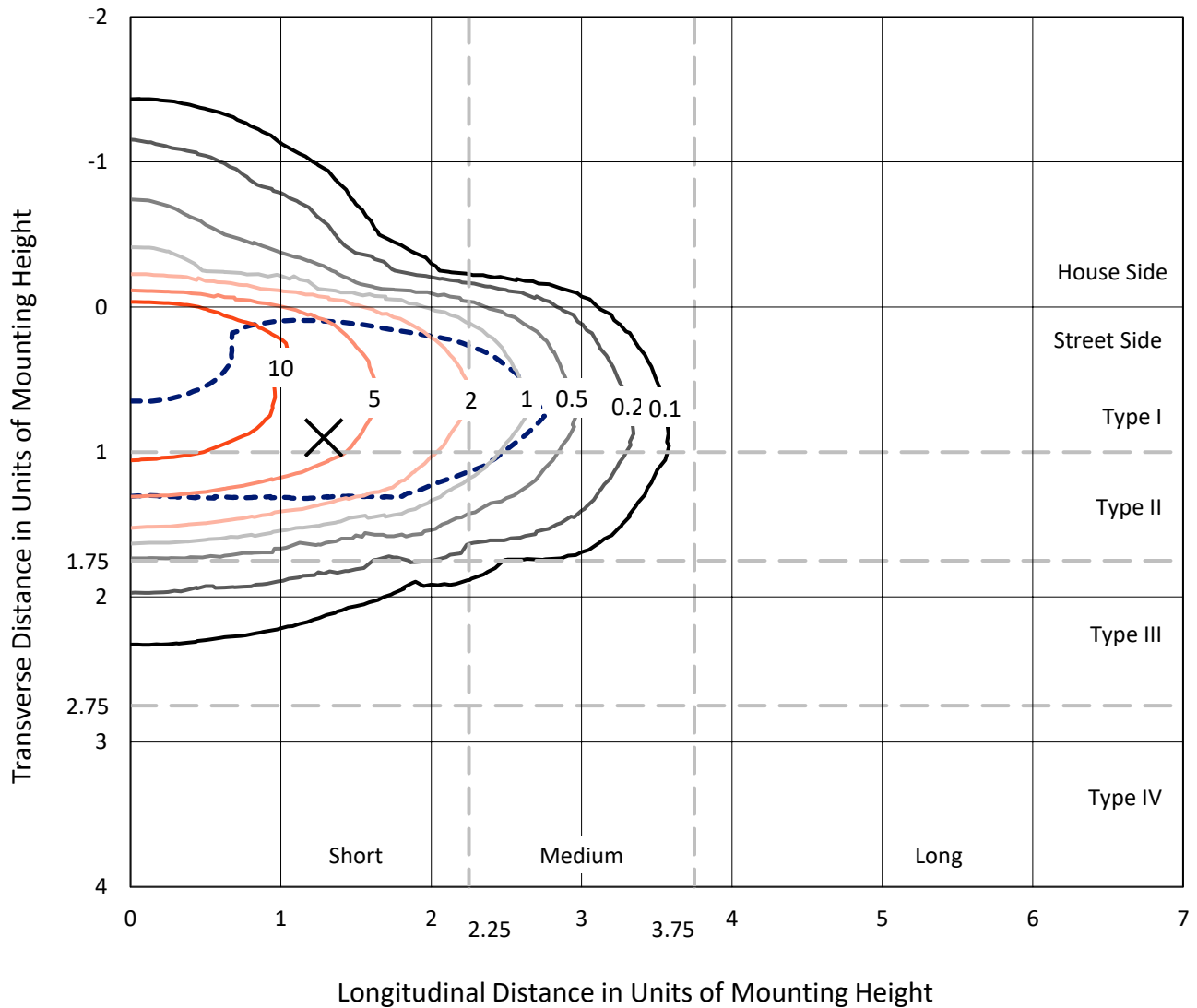
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

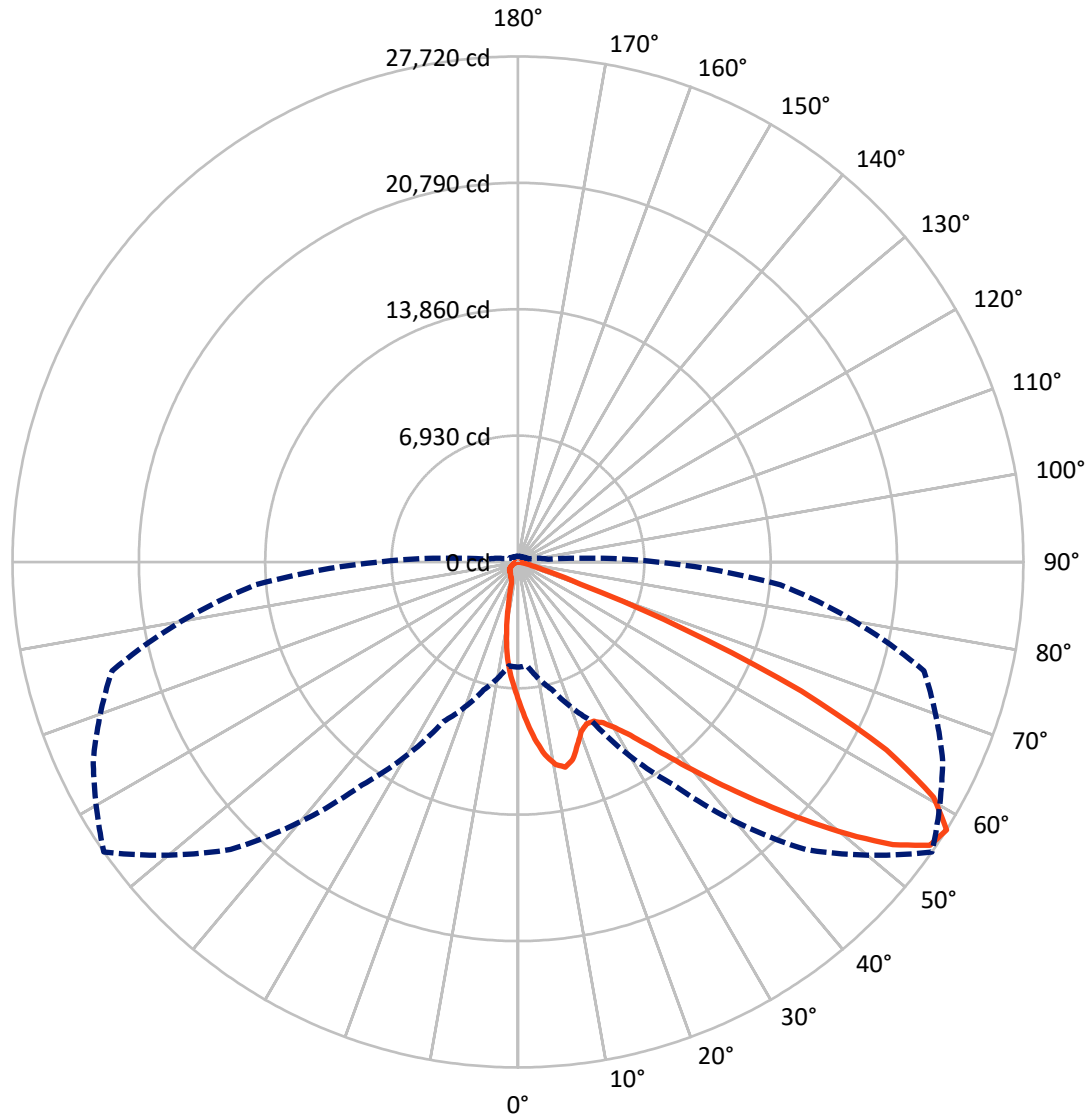
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	2480.2	0.0	2480.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29278.8	0.0	29278.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	31759.0	0.0	31759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.1	2.2
10°-20°	1720.0	5.4
20°-30°	2752.0	8.7
30°-40°	4658.0	14.7
40°-50°	7647.4	24.1
50°-60°	8405.1	26.5
60°-70°	4821.2	15.2
70°-80°	985.1	3.1
80°-90°	58.1	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°	31759.0	100.0
0°-180°	31759.0	100.0

Coefficient of Utilization



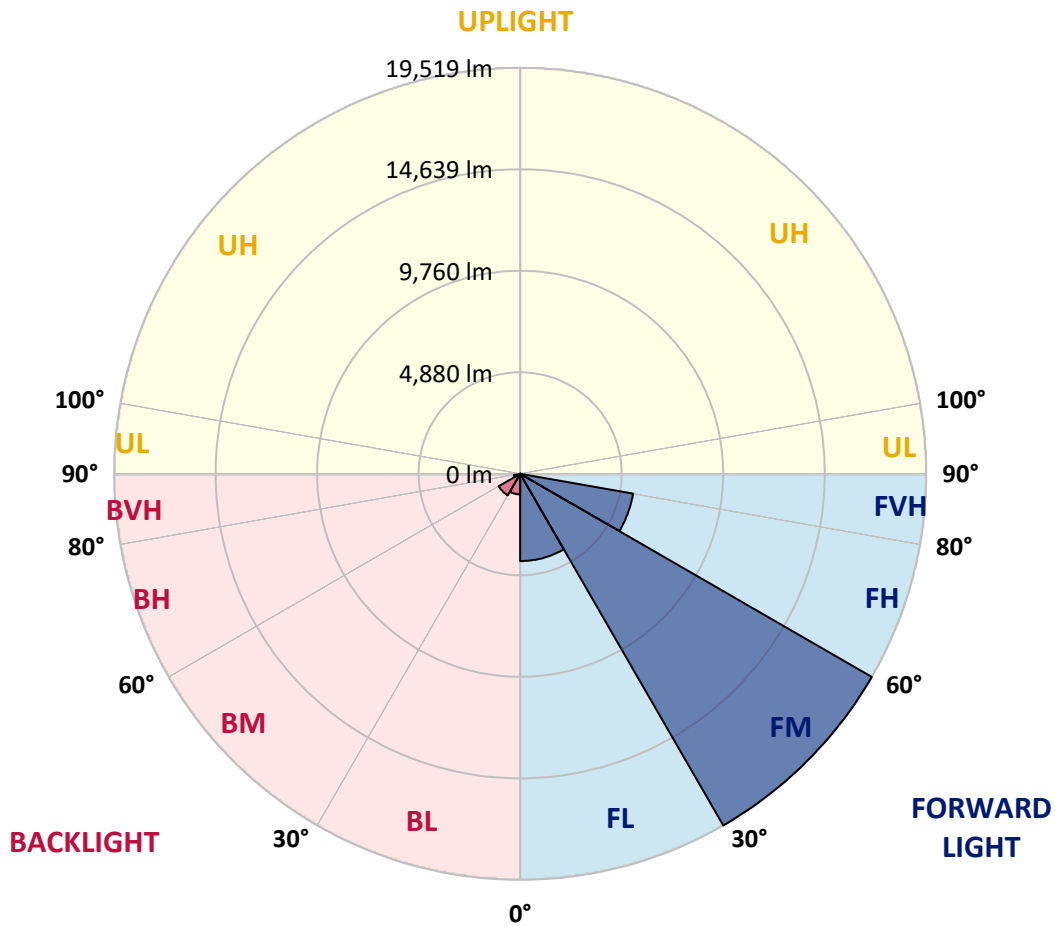
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4194.0	13.2			
FM (30°-60°)	19519.3	61.5			
FH (60°-80°)	5511.3	17.4			G3/7500
FVH (80°-90°)	54.2	0.2			G1/100
BL (0°-30°)	990.2	3.1	B2/1000		
BM (30°-60°)	1191.2	3.8	B2/2500		
BH (60°-80°)	295.0	0.9	B1/500		G1/500
BVH (80°-90°)	3.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1
2.5°	9495.9	9376.5	9358.8	9335.3	9108.2	8937.8	8691.0	8420.8	8117.3	7807.8
5°	10970.5	10876.5	10858.9	10749.2	10490.8	10200.9	9762.3	9208.0	8642.1	7976.3
7.5°	11256.5	11238.8	11319.1	11315.2	11280.0	11050.8	10680.7	10020.8	9170.8	8183.8
10°	9981.6	10026.6	10265.5	10475.1	11041.0	11370.0	11289.7	10745.3	9715.3	8420.8
12.5°	8820.3	8767.4	8937.8	9174.8	9832.8	10811.9	11542.4	11350.5	10338.0	8689.1
15°	8091.8	8070.3	8166.2	8275.9	8777.2	9764.2	11248.6	11842.0	10937.2	9006.3
17.5°	7858.8	7841.1	7870.5	7897.9	8223.0	8986.8	10549.5	12143.6	11511.0	9368.6
20°	8048.7	8025.2	8021.3	7999.8	8134.9	8655.8	9917.0	12165.1	12026.1	9697.6
22.5°	8602.9	8575.5	8479.5	8393.4	8405.1	8700.8	9635.0	11949.7	12413.8	10005.1
25°	9607.5	9562.5	9362.8	9072.9	8888.8	9014.2	9678.0	11665.7	12783.9	10246.0
27.5°	10864.8	10806.0	10549.5	10118.7	9697.6	9544.9	9989.4	11469.9	13091.4	10430.0
30°	12096.6	12020.2	11767.6	11432.7	10817.8	10336.0	10551.5	11556.1	13457.6	10622.0
32.5°	13426.3	13353.8	13018.9	12603.8	12094.6	11446.4	11321.1	11977.1	13906.1	10890.2
35°	15108.5	14994.9	14519.0	13953.1	13412.6	12756.5	12362.9	12703.7	14503.4	11299.5
37.5°	17023.7	16871.0	16357.9	15576.5	14871.5	14137.2	13631.9	13702.4	15378.7	11847.9
40°	18829.3	18690.3	18216.3	17480.0	16594.9	15703.8	15165.3	15008.6	16587.0	12515.7
42.5°	19912.3	19786.9	19587.2	19275.8	18529.7	17621.0	16941.5	16602.7	18016.6	13314.7
45°	19973.0	19863.3	20131.6	20493.9	20347.0	19741.9	18913.5	18292.7	19452.0	14064.7
47.5°	19001.6	18927.2	19741.9	21007.0	21637.5	21892.1	21128.4	19841.8	20636.8	14603.2
50°	16354.0	16326.6	18002.9	20325.5	22129.1	23776.0	23464.7	21283.1	21555.3	14881.3
52.5°	14180.2	14080.4	15057.6	18143.9	21414.3	24766.9	25748.1	22697.0	22197.6	14934.2
55°	10755.1	10667.0	11892.9	14493.6	19109.3	24414.4	27418.5	24155.9	22657.8	14799.1
57.5°	5769.2	5714.4	7263.4	9646.7	14938.1	22299.5	27720.1	25699.1	23045.6	14440.7
60°	2246.2	2236.4	2816.1	4680.4	9078.8	18141.9	26198.5	26625.4	23288.4	14000.1
62.5°	1359.1	1388.5	1482.5	2101.3	4010.7	11270.2	22691.1	25571.8	23450.9	13596.7
65°	1124.1	1126.0	1137.8	1443.3	1921.1	4715.6	17082.5	22105.6	23049.5	12877.9
67.5°	963.5	981.1	1026.2	1145.6	1355.2	2068.0	9834.7	17123.6	20607.5	11205.5
70°	759.8	783.3	840.1	942.0	1045.7	1294.5	3634.7	11393.5	15743.0	8446.3
72.5°	640.4	638.4	667.8	765.7	830.3	910.6	1398.2	6384.1	9149.3	4032.2
75°	495.5	515.0	552.2	640.4	679.5	660.0	757.9	2332.4	3278.2	1222.0
77.5°	387.7	403.4	436.7	522.9	562.0	468.0	436.7	834.2	1053.6	438.7
80°	174.3	188.0	297.7	385.8	458.2	323.1	237.0	426.9	468.0	199.7
82.5°	31.3	52.9	174.3	203.7	235.0	209.5	123.4	221.3	229.1	80.3
85°	2.0	3.9	60.7	74.4	94.0	68.5	37.2	88.1	76.4	27.4
87.5°	0.0	0.0	0.0	2.0	2.0	9.8	11.7	15.7	11.7	9.8
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°
7653.1	0°	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1	7653.1
7670.8	2.5°	7529.8	7251.7	6981.4	6760.1	6630.9	6411.6	6266.6	6243.1	6182.4	6235.3
7690.3	5°	7384.8	6887.4	6384.1	5933.7	5563.6	5085.8	4729.4	4578.6	4447.4	4492.4
7741.3	7.5°	7316.3	6531.0	5747.7	4978.1	4186.9	3423.2	2855.2	2618.3	2438.1	2463.6
7798.1	10°	7224.3	6160.9	4933.0	3758.0	2698.6	1944.6	1553.0	1408.0	1327.7	1329.7
7882.3	12.5°	7153.8	5718.3	3987.2	2547.8	1643.0	1241.6	1120.2	1084.9	1061.4	1063.4
8009.6	15°	7118.5	5197.4	3053.0	1697.9	1175.0	1051.6	1022.2	1006.6	990.9	989.0
8150.6	17.5°	7059.8	4617.7	2234.4	1239.6	1028.1	985.0	959.6	942.0	922.4	918.5
8272.0	20°	6971.6	3959.7	1633.2	1047.7	963.5	930.2	895.0	871.5	848.0	844.0
8348.3	22.5°	6809.1	3264.5	1255.3	969.4	916.5	879.3	836.2	808.8	785.3	781.4
8311.1	25°	6507.5	2612.4	1057.5	920.4	875.4	830.3	783.3	746.1	724.6	720.7
8230.8	27.5°	6125.6	2052.3	959.6	875.4	822.5	781.4	728.5	693.2	673.7	669.7
8125.1	30°	5675.2	1580.4	902.8	824.5	759.8	724.6	677.6	648.2	636.5	636.5
8050.7	32.5°	5189.6	1263.1	879.3	773.5	705.0	665.8	628.6	616.9	613.0	611.0
8091.8	35°	4733.3	1096.7	867.5	732.4	656.0	618.8	603.2	605.1	613.0	613.0
8219.1	37.5°	4327.9	1043.8	861.7	703.0	613.0	579.7	589.5	607.1	599.2	599.2
8442.3	40°	3961.7	1049.7	857.7	681.5	577.7	558.1	577.7	564.0	544.4	542.5
8714.5	42.5°	3681.7	1098.6	849.9	663.9	556.2	542.5	534.6	513.1	511.1	515.0
8996.5	45°	3478.0	1141.7	848.0	656.0	532.7	507.2	497.4	475.9	515.0	524.8
9112.1	47.5°	3237.1	1141.7	848.0	628.6	493.5	483.7	468.0	444.5	483.7	493.5
9002.4	50°	2925.7	1069.2	814.7	597.3	462.2	456.3	428.9	399.5	391.7	397.5
8745.9	52.5°	2532.1	938.0	730.5	554.2	430.8	419.1	385.8	364.2	358.4	358.4
8285.7	55°	2083.7	785.3	616.9	491.5	397.5	376.0	352.5	342.7	336.8	332.9
7641.4	57.5°	1694.0	644.3	495.5	436.7	366.2	338.8	331.0	319.2	309.4	303.5
7102.8	60°	1390.4	507.2	409.3	387.7	334.9	309.4	307.5	291.8	266.3	262.4
6658.3	62.5°	1073.2	372.1	344.7	336.8	303.5	282.0	278.1	246.7	207.6	199.7
6027.7	65°	757.9	289.8	278.1	295.7	270.2	250.7	240.9	193.9	152.7	146.9
5044.6	67.5°	532.7	242.8	219.3	258.5	235.0	209.5	203.7	164.5	127.3	123.4
3814.8	70°	379.9	197.8	180.2	221.3	188.0	184.1	172.3	137.1	103.8	99.9
1887.8	72.5°	268.3	150.8	139.0	191.9	129.2	158.6	141.0	105.7	78.3	74.4
642.3	75°	197.8	107.7	97.9	111.6	94.0	119.5	99.9	70.5	49.0	47.0
289.8	77.5°	144.9	68.5	58.7	54.8	54.8	74.4	54.8	29.4	21.5	19.6
146.9	80°	101.8	31.3	27.4	23.5	21.5	17.6	7.8	3.9	2.0	2.0
50.9	82.5°	60.7	13.7	13.7	9.8	5.9	0.0	0.0	0.0	0.0	0.0
19.6	85°	13.7	5.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
7.8	87.5°	2.0	2.0	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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