

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: P944898

Luminaire Tested: **GALN-SB1A-735-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3637 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

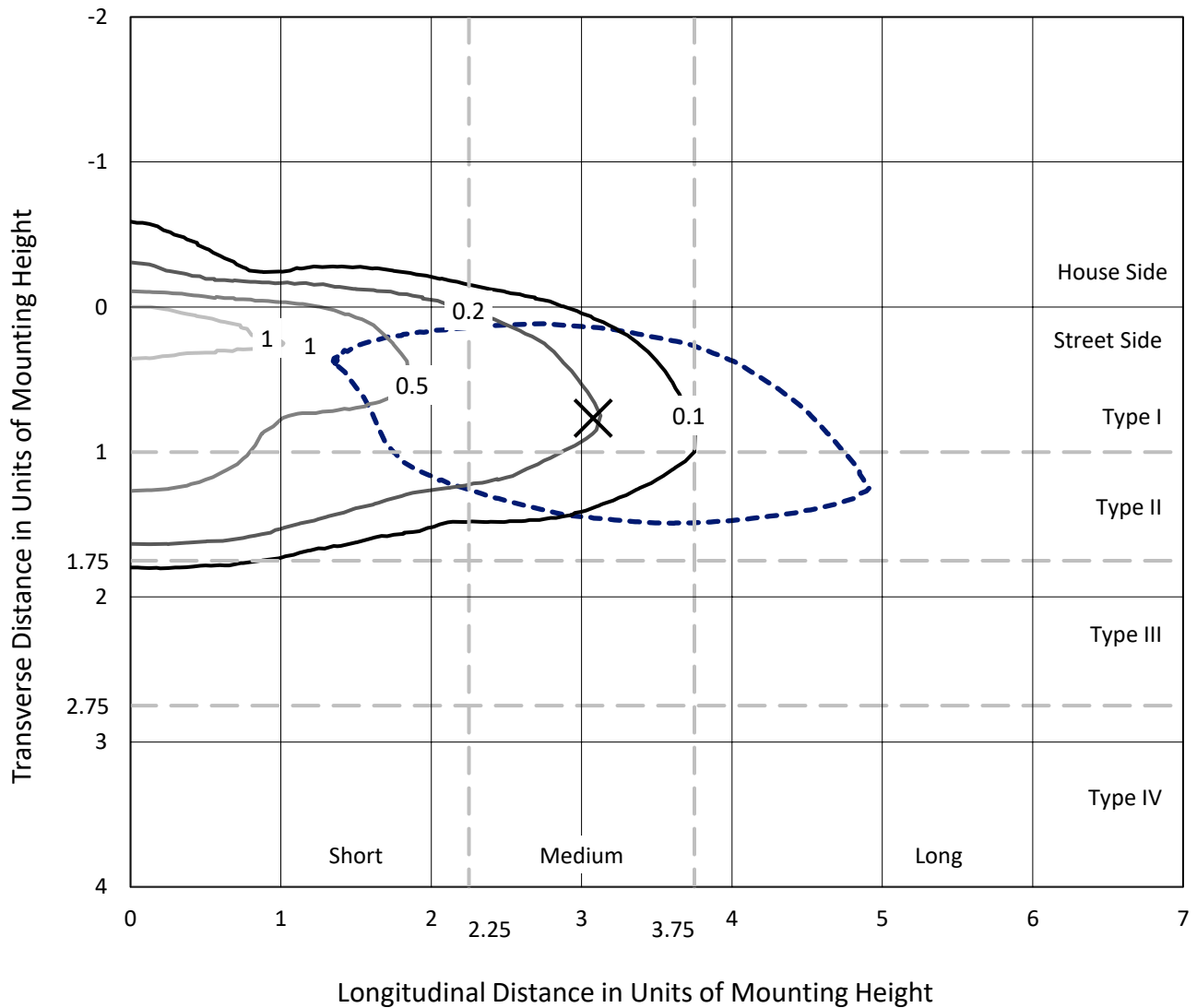
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

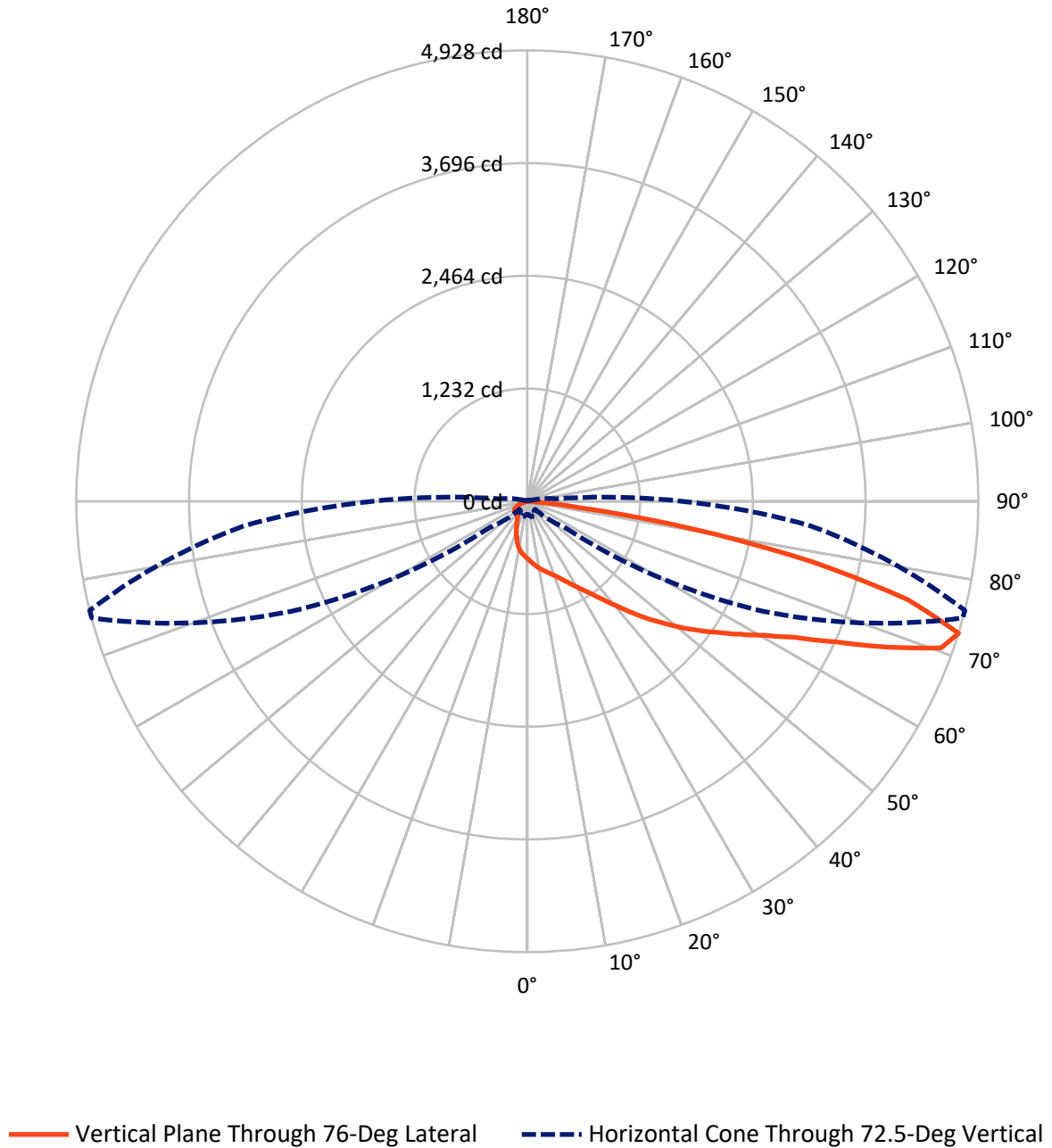
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	372.2	0.0	372.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	3264.7	0.0	3264.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	3637.0	0.0	3637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	1.6
10°-20°	153.3	4.2
20°-30°	242.6	6.7
30°-40°	375.3	10.3
40°-50°	570.0	15.7
50°-60°	785.9	21.6
60°-70°	830.2	22.8
70°-80°	569.6	15.7
80°-90°	53.0	1.5
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°	3637.0	100.0
0°-180°	3637.0	100.0

Coefficient of Utilization



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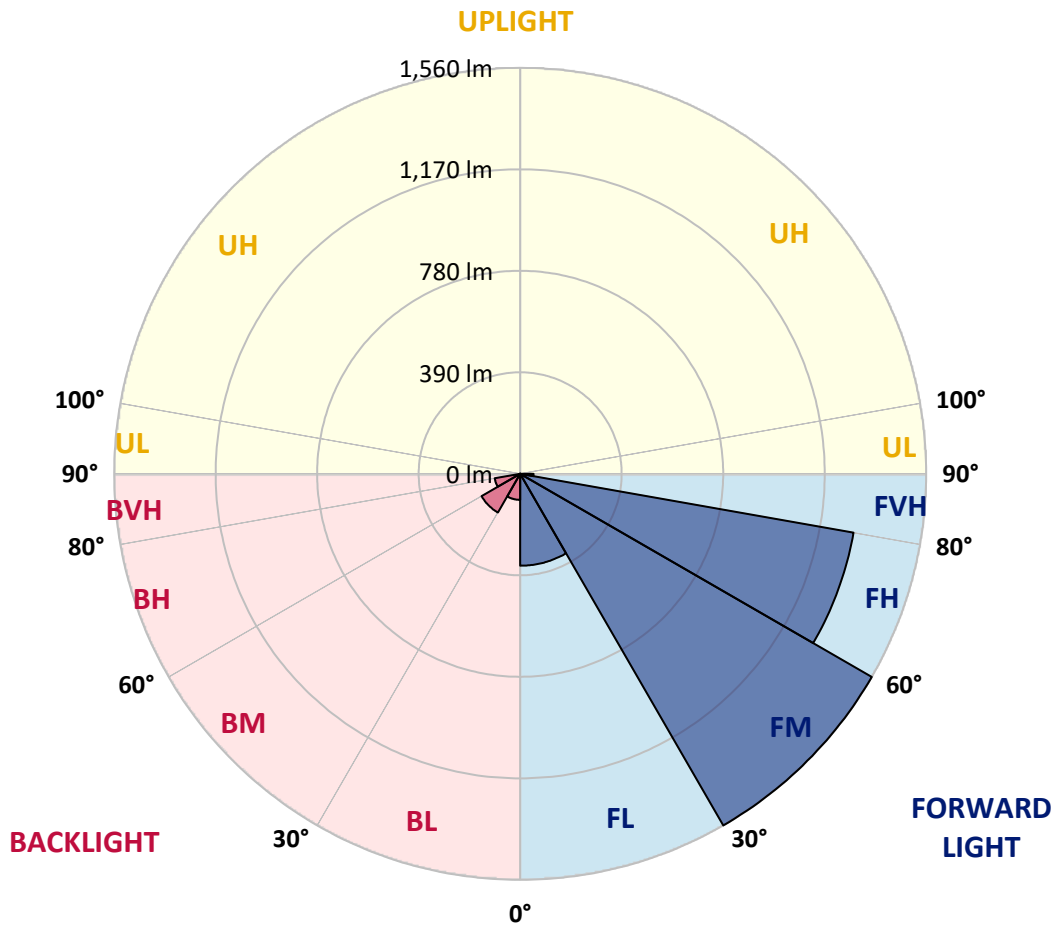
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.0	9.7			
FM (30°-60°)	1559.8	42.9			
FH (60°-80°)	1300.4	35.8			G1/1800
FVH (80°-90°)	51.6	1.4			G1/100
BL (0°-30°)	100.1	2.8	B0/110		
BM (30°-60°)	171.4	4.7	B0/220		
BH (60°-80°)	99.4	2.7	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5
2.5°	730.7	721.0	722.9	713.2	708.7	697.9	686.5	671.7	655.2	655.2
5°	807.6	801.4	801.4	790.1	781.4	764.4	744.1	717.9	686.8	683.7
7.5°	854.8	851.0	853.3	846.7	839.7	822.0	797.9	763.7	719.6	715.8
10°	864.0	863.7	870.3	872.2	876.9	868.0	846.5	807.1	751.9	746.5
12.5°	828.3	823.9	840.1	859.2	886.1	898.2	887.1	846.7	781.4	773.8
15°	769.8	770.8	786.3	815.8	860.7	903.6	918.0	885.4	811.3	802.4
17.5°	736.3	732.8	746.2	772.7	822.2	882.8	932.4	921.5	843.2	833.1
20°	732.3	732.1	735.1	747.2	784.9	853.1	930.7	956.7	880.7	868.9
22.5°	760.2	759.7	757.1	754.7	765.1	824.1	923.6	990.2	925.5	912.8
25°	802.9	802.1	798.1	783.7	773.6	808.5	917.0	1021.3	978.6	964.5
27.5°	855.0	854.5	847.2	825.5	799.3	809.9	913.7	1053.4	1040.0	1026.0
30°	918.9	918.0	902.9	872.2	838.0	832.3	918.2	1089.5	1103.9	1093.3
32.5°	999.1	996.5	976.7	930.5	882.6	862.3	926.7	1126.5	1179.6	1169.7
35°	1061.2	1057.2	1045.6	1004.8	934.3	899.1	946.5	1170.4	1270.7	1262.0
37.5°	1114.5	1110.5	1101.1	1067.6	1008.3	946.1	978.4	1228.9	1378.3	1374.0
40°	1172.1	1165.5	1161.0	1125.1	1071.6	1013.8	1023.9	1297.4	1502.1	1502.6
42.5°	1216.4	1213.8	1214.3	1186.7	1132.7	1094.0	1084.3	1374.5	1650.5	1655.0
45°	1254.4	1252.3	1261.0	1241.7	1194.3	1146.6	1155.1	1461.8	1812.9	1822.1
47.5°	1283.7	1286.0	1298.5	1286.0	1258.2	1183.6	1217.8	1555.9	1983.4	1984.6
50°	1312.9	1313.9	1334.6	1328.5	1317.2	1230.6	1275.6	1661.2	2163.2	2165.3
52.5°	1322.1	1320.7	1353.7	1368.8	1369.3	1288.6	1350.4	1775.8	2339.4	2346.3
55°	1274.9	1279.0	1332.3	1393.6	1417.9	1368.8	1451.4	1920.9	2527.2	2530.1
57.5°	1044.2	1066.4	1184.3	1326.6	1449.3	1483.7	1596.5	2090.5	2744.0	2741.5
60°	633.7	660.1	801.2	1112.6	1346.9	1599.1	1810.3	2353.4	2980.9	2973.6
62.5°	354.4	362.4	407.4	666.0	1024.4	1525.7	2019.0	2691.0	3298.9	3274.2
65°	261.2	263.8	274.4	326.3	503.5	1173.5	1973.3	3094.6	3745.8	3701.7
67.5°	227.0	229.6	239.9	247.0	224.8	616.5	1625.8	3318.5	4313.2	4255.4
70°	191.1	192.5	209.3	214.0	160.9	234.5	1044.4	3249.4	4838.4	4797.1
72.5°	142.5	148.2	172.5	183.8	129.1	124.6	491.7	2841.0	4927.3	4927.8
75°	96.7	101.9	129.8	151.2	99.6	87.3	198.4	2121.4	4290.5	4290.5
77.5°	66.1	70.3	90.4	118.7	75.5	59.9	102.9	1346.4	3078.1	3186.4
80°	29.3	31.8	58.3	86.1	57.3	38.7	58.3	737.3	1861.5	1838.6
82.5°	14.4	16.5	37.3	53.8	37.0	23.8	30.7	350.6	603.3	573.3
85°	2.8	3.8	20.1	22.9	17.2	10.6	11.6	107.8	72.7	83.0
87.5°	0.0	0.0	6.1	4.2	1.9	2.4	2.4	9.7	5.7	6.6
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
628.5	0°	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5	628.5
639.1	2.5°	630.6	621.9	602.8	583.9	564.6	546.9	534.6	522.3	514.8	511.5
653.3	5°	635.6	617.9	577.8	535.8	494.3	453.7	423.3	394.7	385.7	370.9
670.0	7.5°	643.4	614.6	551.4	480.6	413.1	353.7	310.7	276.5	262.8	249.6
684.4	10°	648.6	608.5	516.4	421.8	330.5	263.8	222.7	197.9	189.0	181.0
697.9	12.5°	650.7	597.1	476.3	356.0	257.2	201.0	176.5	164.9	161.8	159.0
710.6	15°	652.6	586.0	431.5	292.5	203.1	168.2	158.5	154.8	152.6	150.8
723.6	17.5°	654.2	571.9	380.3	237.8	171.5	155.0	150.3	146.3	144.6	142.5
742.2	20°	659.9	558.2	334.5	196.3	154.3	145.6	140.4	136.1	134.7	133.3
768.6	22.5°	670.5	547.1	290.2	168.2	143.9	135.9	129.3	124.6	123.6	122.7
800.7	25°	683.2	533.4	248.4	150.0	133.8	124.8	117.5	113.5	112.5	112.8
837.8	27.5°	699.5	518.3	212.6	138.5	124.8	114.4	106.2	103.1	103.6	104.5
880.5	30°	717.4	504.4	184.5	130.5	116.8	105.2	97.0	94.8	96.5	97.9
937.6	32.5°	744.1	492.1	164.9	124.1	109.7	97.7	91.1	88.5	90.4	92.2
1010.5	35°	780.4	486.0	153.8	118.7	103.6	91.8	85.2	83.3	85.2	85.6
1099.4	37.5°	825.0	485.5	149.1	114.2	97.9	86.8	79.5	78.8	80.2	80.5
1206.3	40°	882.6	488.6	145.6	110.9	92.0	81.2	74.3	73.6	74.1	75.7
1334.9	42.5°	955.5	501.3	140.6	106.6	85.6	75.5	70.1	68.4	68.2	70.1
1478.8	45°	1047.0	529.4	134.0	99.8	80.0	70.8	65.4	63.5	62.8	63.2
1627.4	47.5°	1146.8	563.9	127.4	93.4	76.0	67.0	61.6	59.2	58.0	58.0
1766.4	50°	1243.6	602.8	122.9	86.8	73.1	63.5	57.6	55.2	53.3	52.8
1909.3	52.5°	1339.3	641.0	119.4	80.2	69.8	59.0	53.8	51.2	49.1	48.1
2050.9	55°	1426.6	677.3	113.2	73.8	65.6	54.3	50.0	47.4	44.8	43.2
2194.3	57.5°	1510.4	707.5	101.9	67.2	59.0	49.8	46.0	43.2	40.1	38.0
2339.4	60°	1586.6	723.1	87.8	60.2	52.4	45.1	41.5	38.9	34.9	31.4
2482.2	62.5°	1644.6	717.0	72.4	52.1	45.5	40.8	36.3	33.7	29.0	24.8
2653.2	65°	1704.1	683.5	57.8	43.6	39.9	35.2	30.4	27.8	22.4	17.9
2884.7	67.5°	1781.2	612.0	45.5	36.3	34.4	27.8	23.8	22.2	18.4	14.2
3133.1	70°	1830.8	475.4	35.4	29.5	28.3	20.3	18.4	18.2	14.6	10.9
3116.3	72.5°	1694.9	311.7	27.1	22.4	20.3	13.2	14.2	14.2	10.6	7.3
2731.8	75°	1414.8	182.4	19.6	16.0	11.6	8.5	9.7	9.7	6.6	3.5
1947.1	77.5°	1010.5	97.2	13.0	9.9	5.9	3.8	5.2	5.0	2.1	0.2
763.2	80°	386.4	33.5	6.1	4.0	1.7	0.7	0.5	0.2	0.2	0.0
119.1	82.5°	59.0	8.7	1.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
25.2	85°	10.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.6	87.5°	2.4	0.0	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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180°
628.5
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