

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: P948041

Luminaire Tested: **GALN-SB3A-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-950-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

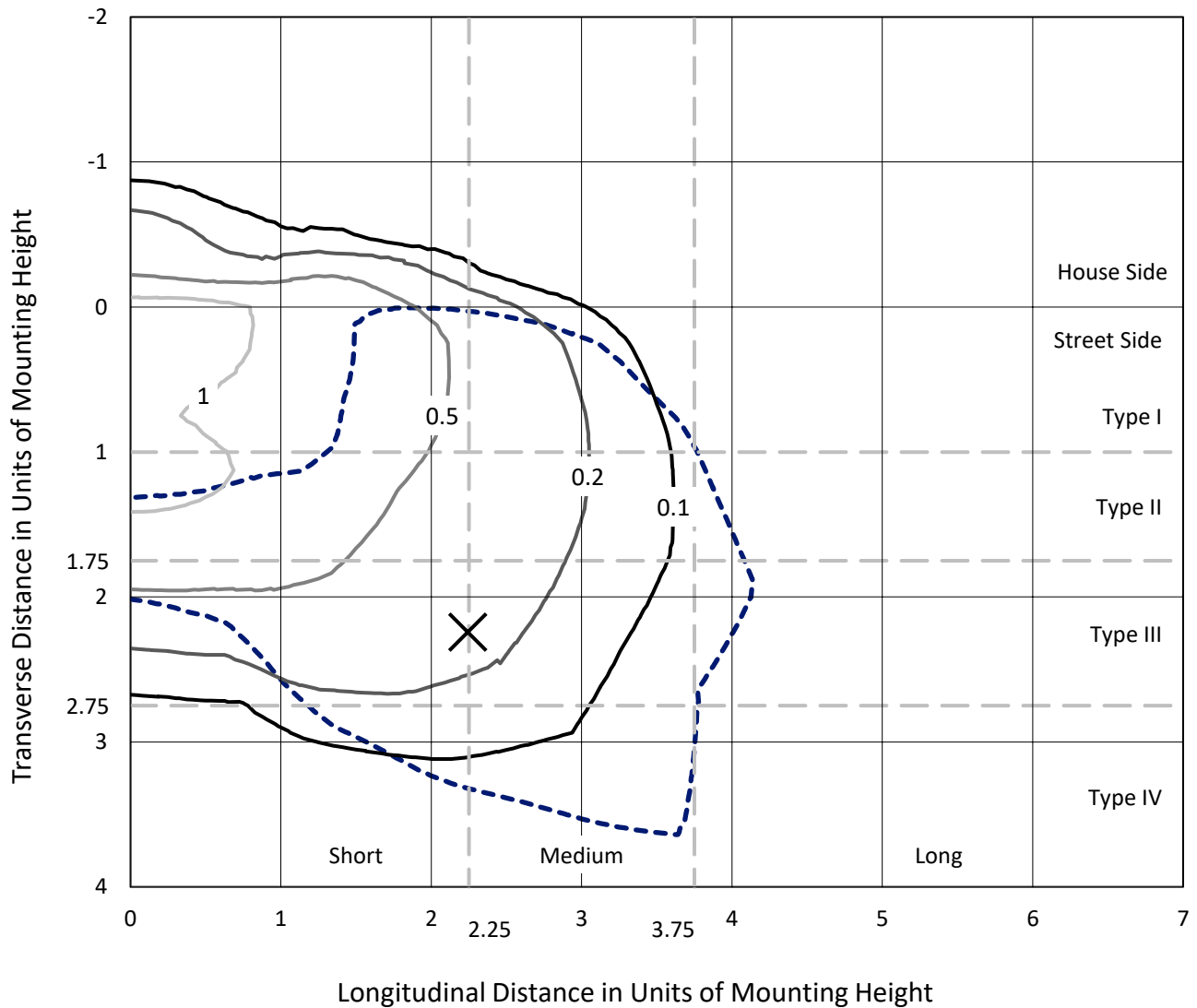
Lumens per Lamp: N/A  
Luminaire Lumens: 7212 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

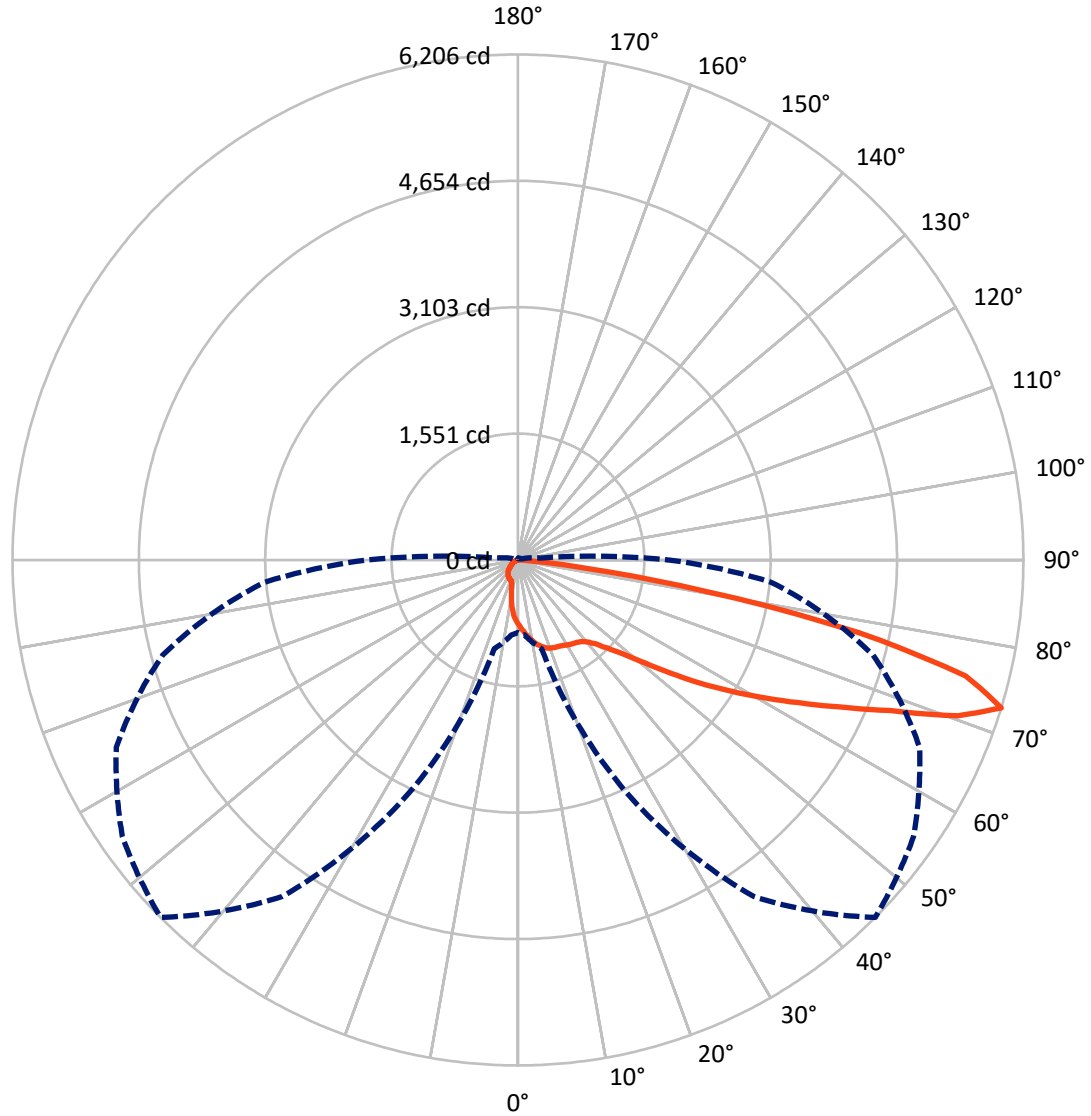
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	757.8	0.0	757.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6454.2	0.0	6454.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7212.0	0.0	7212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	1.0
10°-20°	217.6	3.0
20°-30°	357.3	5.0
30°-40°	506.7	7.0
40°-50°	837.5	11.6
50°-60°	1504.5	20.9
60°-70°	2089.1	29.0
70°-80°	1515.4	21.0
80°-90°	109.6	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°	7212.0	100.0
0°-180°	7212.0	100.0

**Coefficient of Utilization**



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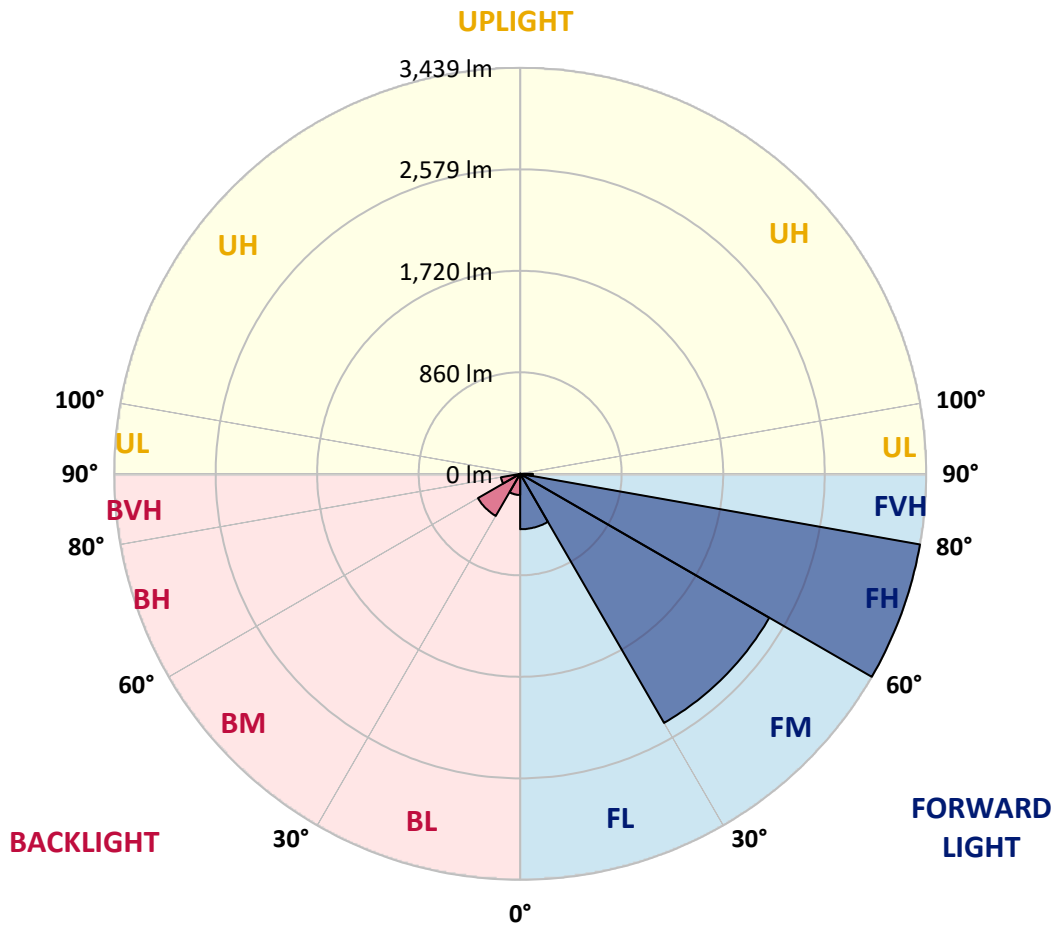
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.8	6.5			
FM (30°-60°)	2436.6	33.8			
FH (60°-80°)	3439.2	47.7			G2/5000
FVH (80°-90°)	108.6	1.5			G2/225
BL (0°-30°)	179.5	2.5	B1/500		
BM (30°-60°)	412.1	5.7	B1/1000		
BH (60°-80°)	165.2	2.3	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1
2.5°	862.9	864.4	863.4	857.5	847.7	842.3	839.3	829.5	823.1	811.7
5°	942.2	948.1	944.7	932.8	914.1	900.9	896.9	876.7	858.5	837.3
7.5°	1026.4	1029.3	1022.9	1007.7	982.6	959.9	956.5	928.4	899.4	866.9
10°	1099.2	1102.7	1092.8	1070.7	1042.1	1014.1	1009.1	978.1	943.7	903.8
12.5°	1160.3	1163.7	1150.9	1124.3	1092.8	1063.8	1058.9	1026.4	988.5	944.2
15°	1206.5	1212.9	1195.7	1167.2	1133.2	1104.2	1101.7	1069.7	1032.8	983.6
17.5°	1233.6	1240.0	1223.8	1189.3	1160.3	1135.7	1132.7	1106.1	1071.7	1024.4
20°	1238.1	1244.0	1226.7	1196.7	1172.6	1152.9	1151.4	1132.2	1107.1	1061.8
22.5°	1224.8	1232.1	1216.4	1192.3	1175.5	1165.2	1163.2	1152.4	1138.1	1099.7
25°	1211.0	1216.9	1205.1	1183.9	1175.0	1174.1	1175.5	1173.6	1170.6	1138.1
27.5°	1210.0	1216.4	1203.1	1182.9	1178.0	1188.3	1189.8	1199.2	1201.6	1173.1
30°	1218.4	1222.8	1210.0	1188.8	1186.4	1210.0	1210.5	1227.2	1231.2	1202.6
32.5°	1236.6	1241.5	1228.7	1197.7	1194.2	1227.2	1228.7	1250.9	1257.3	1234.1
35°	1279.4	1285.3	1270.5	1222.3	1210.0	1243.5	1247.9	1274.0	1286.8	1267.6
37.5°	1386.2	1369.0	1348.8	1272.0	1245.9	1269.1	1276.5	1307.0	1329.6	1307.5
40°	1651.6	1597.4	1534.4	1356.7	1308.9	1323.7	1329.6	1360.1	1391.1	1369.5
42.5°	2049.8	1985.8	1884.4	1551.6	1403.9	1411.3	1415.8	1442.3	1486.2	1468.9
45°	2404.7	2381.6	2278.2	1884.4	1581.7	1545.2	1550.6	1564.4	1628.9	1622.5
47.5°	2677.4	2664.2	2584.4	2266.4	1881.9	1709.2	1724.4	1730.8	1823.9	1846.5
50°	2887.2	2882.2	2810.8	2606.1	2274.3	1950.9	1956.3	1942.5	2081.8	2137.9
52.5°	3085.0	3101.8	3049.1	2921.6	2693.2	2267.4	2266.4	2201.4	2389.5	2474.1
55°	3263.7	3269.6	3275.1	3243.6	3114.6	2627.7	2618.4	2512.0	2746.4	2834.0
57.5°	3431.6	3434.1	3482.3	3546.8	3553.2	3014.6	2997.4	2869.9	3136.2	3198.8
60°	3544.3	3555.7	3657.6	3836.7	3915.0	3413.9	3404.5	3274.6	3533.0	3562.1
62.5°	3381.9	3450.8	3707.8	4063.2	4256.6	3856.4	3852.0	3729.9	3950.4	3926.8
65°	2737.5	2854.2	3306.1	4216.3	4591.9	4350.7	4357.1	4227.1	4379.2	4302.4
67.5°	1914.9	2038.0	2572.6	4228.6	4966.5	4931.0	4968.0	4764.2	4834.6	4662.3
70°	1324.2	1387.7	1735.7	3963.7	5258.4	5730.5	5729.5	5423.8	5287.4	4826.2
72.5°	890.5	923.5	1127.3	3144.6	5043.8	6205.5	6177.0	5927.9	5440.1	4513.6
75°	375.6	399.7	521.8	1767.2	3990.3	5677.3	5600.0	5238.7	4833.6	3554.2
77.5°	119.1	129.5	205.8	632.6	2198.0	4267.5	4185.8	3271.6	3239.6	1783.0
80°	56.6	66.0	115.7	254.0	864.9	2321.0	2309.7	1484.2	1393.6	481.4
82.5°	24.6	29.0	64.0	135.9	386.9	828.0	844.7	505.1	417.9	182.6
85°	7.9	10.3	29.5	62.5	163.4	205.8	203.3	120.1	168.4	99.4
87.5°	0.0	0.0	9.8	14.3	16.7	11.8	13.3	10.3	46.8	27.6
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°
790.1	0°	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1	790.1
799.9	2.5°	794.0	786.2	772.4	759.6	748.2	736.9	730.0	720.2	719.2	719.2
812.7	5°	799.4	786.6	762.0	735.9	705.9	677.4	648.8	621.2	612.4	606.0
833.4	7.5°	815.2	795.0	756.1	706.4	649.3	586.8	543.0	495.7	477.5	467.7
861.0	10°	837.8	810.3	751.2	664.1	571.5	486.4	423.8	372.6	353.0	344.6
891.0	12.5°	862.9	829.0	742.3	611.4	486.4	384.5	323.4	299.8	296.8	296.8
926.9	15°	893.0	851.6	727.1	549.4	397.3	304.2	282.6	283.5	286.5	288.5
961.9	17.5°	924.0	875.7	703.0	480.0	318.5	273.7	274.2	275.7	278.1	280.1
999.8	20°	957.5	899.9	671.0	406.1	273.2	264.8	266.3	267.8	269.8	270.7
1035.2	22.5°	993.4	922.5	633.1	333.8	257.9	257.5	257.9	259.4	261.9	261.9
1076.6	25°	1031.8	947.6	589.7	281.1	250.1	250.1	251.1	252.0	254.0	254.0
1116.5	27.5°	1071.2	970.8	544.0	253.5	243.2	242.7	242.7	244.2	245.1	245.6
1155.8	30°	1114.5	997.8	498.2	247.6	237.8	235.3	233.8	234.8	235.8	236.3
1197.2	32.5°	1158.8	1023.9	457.3	250.1	232.4	227.9	223.0	222.0	222.0	224.0
1240.0	35°	1208.0	1052.5	425.8	258.4	229.4	217.1	209.2	204.8	205.3	208.2
1291.2	37.5°	1267.1	1086.9	402.7	265.8	227.4	204.8	192.0	186.6	183.1	186.6
1361.6	40°	1344.4	1137.6	385.9	271.7	225.0	190.5	173.3	164.4	158.0	160.0
1470.9	42.5°	1458.1	1217.4	379.5	272.2	219.6	173.8	154.1	142.3	132.9	133.4
1635.3	45°	1617.6	1343.4	412.5	265.8	207.7	155.6	133.9	118.1	112.2	110.8
1881.0	47.5°	1836.2	1527.0	488.8	252.5	190.5	137.8	114.2	100.9	96.5	94.0
2203.4	50°	2129.1	1762.8	573.5	237.8	173.3	121.1	98.0	89.6	86.6	84.2
2585.9	52.5°	2468.7	2002.1	642.9	223.0	156.0	106.3	87.6	82.7	80.2	78.3
2955.1	55°	2780.3	2167.0	639.0	207.2	139.3	94.5	80.2	77.3	74.3	72.4
3273.1	57.5°	2974.3	2190.1	526.7	190.0	120.1	85.2	73.3	71.4	67.9	65.5
3548.3	60°	3063.4	2058.2	369.2	167.4	100.9	76.3	66.0	65.0	60.5	57.1
3808.7	62.5°	3079.6	1813.0	246.1	139.3	84.2	67.9	58.6	57.1	51.2	45.3
4020.4	65°	3013.7	1462.5	170.3	108.8	71.9	59.1	50.2	47.3	40.9	35.0
4070.6	67.5°	2804.9	1026.9	118.6	78.3	61.0	46.8	39.9	38.9	34.0	29.0
3814.6	70°	2422.5	585.3	79.3	58.6	48.2	32.0	31.5	32.5	27.6	23.6
3116.5	72.5°	1857.3	267.8	49.2	42.8	33.0	21.7	25.1	25.6	21.2	17.7
1944.5	75°	1093.3	114.7	31.0	27.6	16.7	14.3	18.2	18.7	14.3	11.3
710.8	77.5°	372.2	43.3	19.7	16.2	8.4	7.9	11.8	11.8	7.9	4.4
142.8	80°	84.7	16.2	9.8	6.4	3.9	3.4	3.9	3.4	2.0	0.5
43.8	82.5°	24.1	6.4	3.9	2.5	1.5	1.5	0.5	0.0	0.0	0.0
15.3	85°	6.9	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
5.4	87.5°	3.0	0.5	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°  
790.1  
721.7  
608.9  
469.1  
344.6  
296.8  
288.5  
280.1  
271.2  
262.9  
254.5  
246.1  
237.3  
225.5  
209.7  
185.6  
159.0  
131.4  
108.8  
92.5  
83.7  
77.8  
71.4  
65.0  
56.1  
42.3  
33.0  
27.6  
21.7  
*15.8*  
9.8  
3.4  
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0.0

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