

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: P944276

Luminaire Tested: **GALN-SB9A-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19505 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

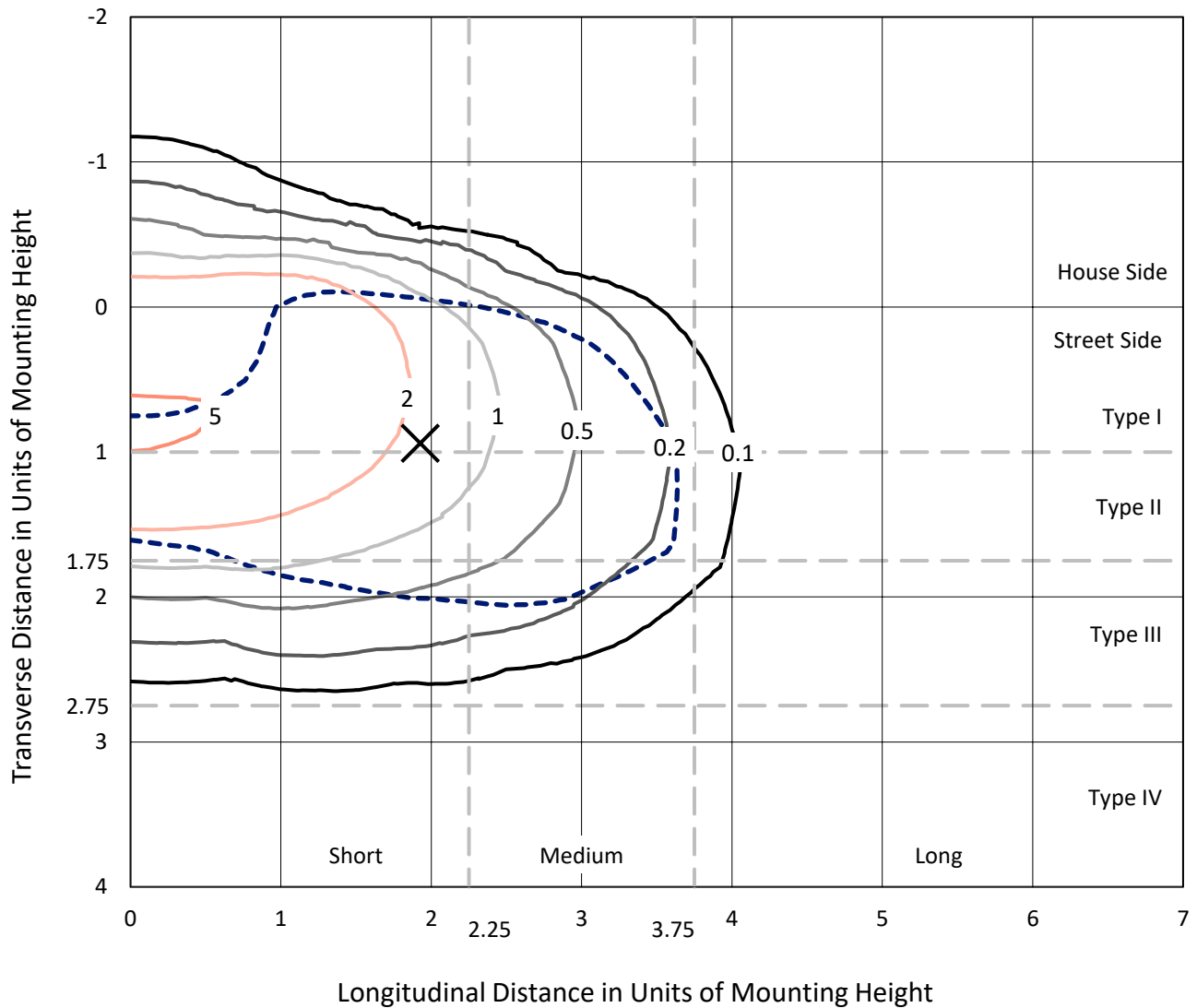
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

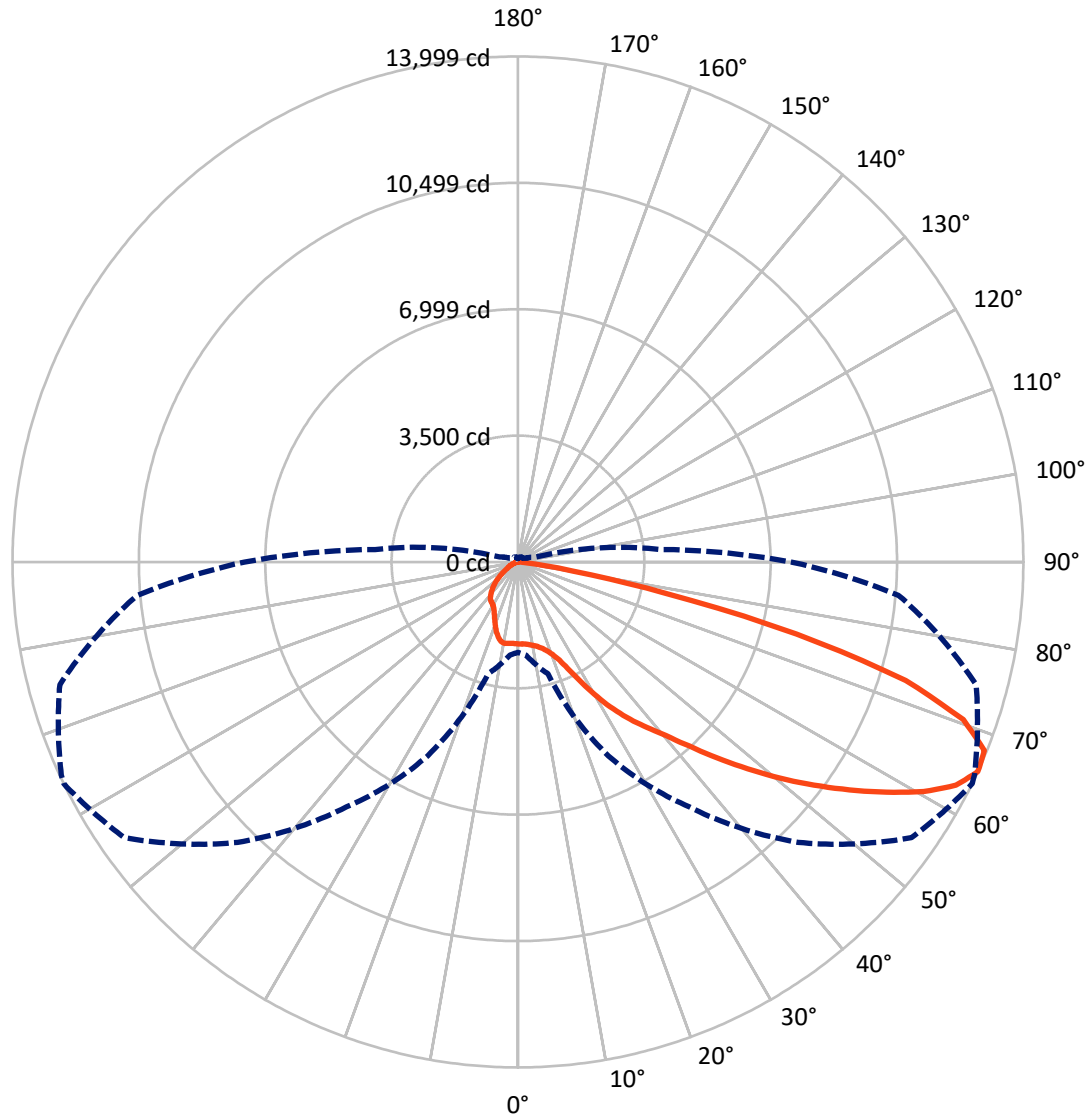
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.4	0.0	2608.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16896.6	0.0	16896.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	19505.0	0.0	19505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.1
10°-20°	567.7	2.9
20°-30°	1075.7	5.5
30°-40°	2176.8	11.2
40°-50°	3708.1	19.0
50°-60°	5042.8	25.9
60°-70°	4735.4	24.3
70°-80°	1897.2	9.7
80°-90°	91.9	0.5
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°	19505.0	100.0
0°-180°	19505.0	100.0

Coefficient of Utilization



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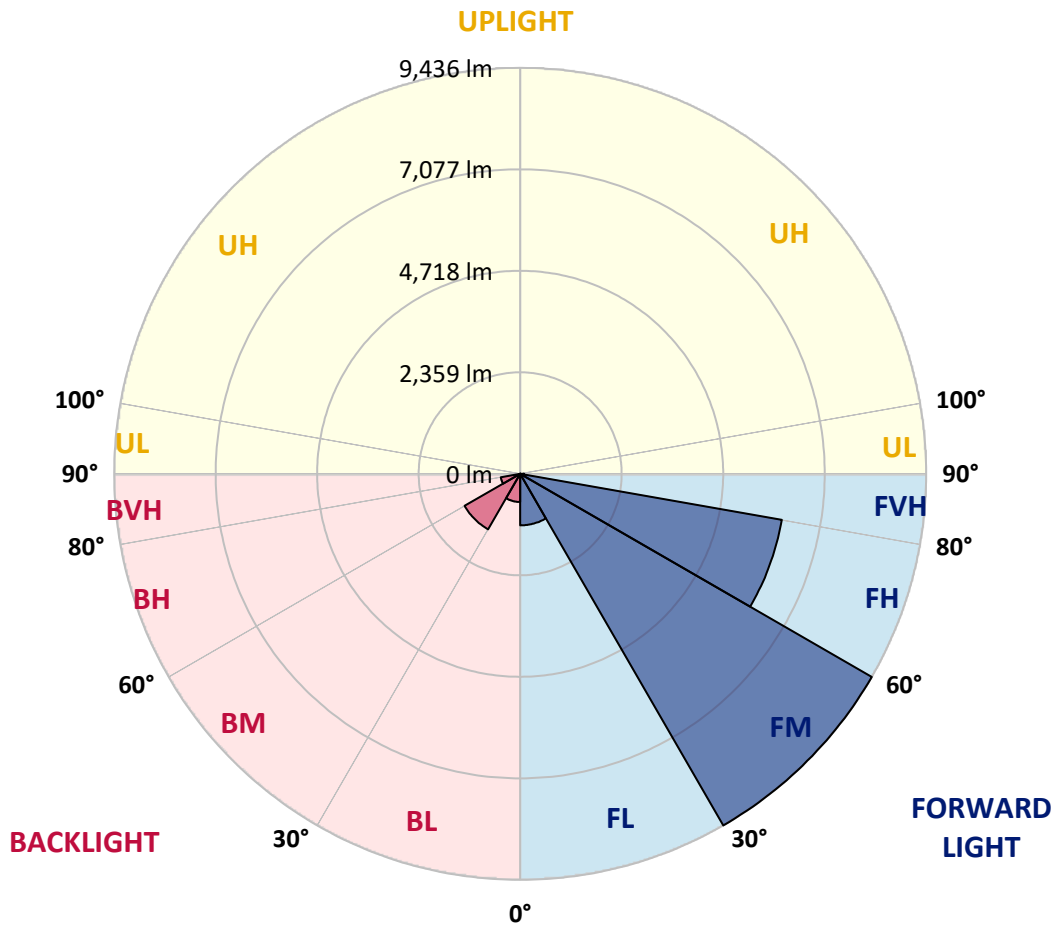
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.8	6.1			
FM (30°-60°)	9436.5	48.4			
FH (60°-80°)	6174.8	31.7			G3/7500
FVH (80°-90°)	87.4	0.4			G1/100
BL (0°-30°)	654.9	3.4	B2/1000		
BM (30°-60°)	1491.2	7.6	B2/2500		
BH (60°-80°)	457.8	2.3	B1/500		G1/500
BVH (80°-90°)	4.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6
2.5°	2260.8	2276.5	2272.6	2268.6	2267.3	2269.9	2271.2	2269.9	2269.9	2269.9
5°	2217.6	2230.7	2230.7	2239.9	2252.9	2268.6	2280.4	2283.0	2285.6	2289.6
7.5°	2135.3	2145.7	2153.6	2183.6	2216.3	2258.2	2293.5	2311.8	2314.4	2328.8
10°	2079.0	2092.1	2105.2	2136.6	2183.6	2246.4	2306.6	2351.0	2357.5	2391.5
12.5°	2076.4	2089.5	2106.5	2140.5	2195.4	2262.1	2335.3	2399.4	2411.2	2460.8
15°	2103.9	2119.6	2135.3	2177.1	2235.9	2317.0	2395.5	2475.2	2487.0	2557.6
17.5°	2160.1	2181.0	2192.8	2234.6	2297.4	2387.6	2490.9	2582.5	2592.9	2675.3
20°	2271.2	2296.1	2300.0	2334.0	2395.5	2492.2	2615.1	2728.9	2742.0	2836.1
22.5°	2501.4	2536.7	2505.3	2522.3	2577.2	2674.0	2807.4	2951.2	2969.5	3076.7
25°	2906.7	2956.4	2875.3	2846.6	2870.1	2970.8	3138.2	3319.9	3340.8	3427.1
27.5°	3703.0	3639.0	3516.1	3395.8	3325.2	3382.7	3571.0	3795.9	3822.0	3905.7
30°	4577.8	4521.6	4355.5	4088.8	3921.4	3912.2	4086.2	4337.2	4367.3	4447.0
32.5°	5453.9	5400.3	5219.8	4891.6	4601.3	4457.5	4577.8	4856.3	4872.0	4923.0
35°	6315.6	6260.6	6080.2	5744.2	5387.2	5060.3	5036.8	5350.6	5355.8	5409.4
37.5°	7182.5	7136.7	6944.5	6615.0	6263.3	5812.1	5593.8	5818.7	5825.2	5877.5
40°	7801.0	7820.6	7688.5	7433.5	7131.5	6638.5	6218.8	6316.9	6277.6	6365.3
42.5°	8331.8	8371.1	8256.0	8127.9	7952.6	7518.5	6992.9	6975.9	6913.1	6960.2
45°	8790.8	8823.5	8720.2	8690.1	8686.2	8381.5	7838.9	7736.9	7649.3	7640.1
47.5°	8959.5	9022.2	9066.7	9167.4	9363.5	9235.4	8713.6	8555.4	8457.4	8385.4
50°	9023.5	9090.2	9241.9	9534.8	9999.0	10053.9	9584.5	9406.7	9286.4	9155.6
52.5°	8937.2	9056.2	9260.2	9753.2	10426.6	10710.3	10420.0	10264.4	10127.1	9914.0
55°	8428.6	8547.6	8964.7	9750.5	10639.7	11170.6	11209.8	11140.5	10986.2	10650.2
57.5°	7356.4	7532.9	8193.2	9418.4	10635.8	11566.8	11983.9	12033.6	11861.0	11379.8
60°	5871.0	6110.3	6915.7	8682.3	10307.6	11781.2	12662.5	12910.9	12727.9	12098.9
62.5°	4096.6	4373.8	5136.1	7529.0	9557.0	11626.9	13158.1	13617.0	13478.4	12742.3
65°	2498.8	2587.7	3202.2	5924.6	8280.8	10981.0	13311.1	13998.8	13953.1	13135.8
67.5°	1664.5	1739.1	1915.6	4062.6	6428.0	9690.4	12944.9	13932.2	13945.2	13071.8
70°	1002.9	1067.0	1182.0	2362.8	4165.9	7670.2	11811.3	13082.2	13158.1	12215.3
72.5°	413.2	456.3	560.9	1070.9	2157.5	4868.1	9405.4	11232.0	11408.5	10271.0
75°	234.1	256.3	329.5	537.4	936.2	2268.6	5697.1	7973.6	8233.8	7079.2
77.5°	155.6	166.1	213.1	347.8	527.0	774.1	2434.7	4154.2	4651.0	3866.5
80°	104.6	113.8	146.4	232.7	342.6	332.1	775.4	1539.0	1893.4	1328.5
82.5°	70.6	71.9	104.6	153.0	217.1	160.8	228.8	478.6	601.5	384.4
85°	40.5	39.2	77.1	88.9	96.8	66.7	69.3	143.8	188.3	162.1
87.5°	5.2	7.8	30.1	23.5	13.1	14.4	14.4	24.8	36.6	39.2
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°
2268.6	0°	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6
2271.2	2.5°	2271.2	2269.9	2266.0	2262.1	2252.9	2247.7	2250.3	2247.7	2246.4	2247.7
2288.2	5°	2288.2	2284.3	2273.9	2260.8	2242.5	2220.3	2205.9	2184.9	2165.3	2153.6
2334.0	7.5°	2334.0	2330.1	2315.7	2279.1	2220.3	2127.4	2042.4	1967.9	1911.7	1879.0
2407.2	10°	2407.2	2400.7	2378.5	2297.4	2143.1	1940.4	1771.8	1631.8	1540.3	1497.2
2493.5	12.5°	2493.5	2485.7	2446.5	2280.4	1996.7	1680.2	1447.5	1291.9	1206.9	1169.0
2592.9	15°	2595.5	2585.1	2507.9	2199.3	1783.5	1392.6	1179.4	1063.1	1008.1	974.1
2719.7	17.5°	2722.4	2704.1	2553.7	2077.7	1552.1	1172.9	1014.7	927.1	878.7	846.0
2885.8	20°	2887.1	2857.0	2590.3	1932.6	1339.0	1034.3	903.5	830.3	793.7	764.9
3121.2	22.5°	3117.2	3074.1	2634.8	1775.7	1188.6	938.8	821.2	767.5	737.5	704.8
3449.4	25°	3402.3	3351.3	2689.7	1630.5	1085.3	856.5	761.0	716.5	681.2	643.3
3879.6	27.5°	3801.1	3709.6	2755.1	1511.6	996.4	785.8	706.1	656.4	615.9	584.5
4367.3	30°	4245.7	4095.3	2812.6	1439.6	915.3	720.5	634.2	584.5	546.6	524.3
4805.3	32.5°	4666.7	4462.7	2850.5	1408.3	842.1	645.9	555.7	502.1	473.3	466.8
5234.2	35°	5064.2	4794.9	2846.6	1378.2	776.7	571.4	478.6	423.7	401.4	405.3
5695.8	37.5°	5521.9	5149.2	2819.1	1331.1	723.1	503.4	411.9	363.5	343.9	345.2
6256.7	40°	6054.0	5558.5	2802.1	1242.2	664.2	440.7	357.0	317.7	303.4	298.1
6847.7	42.5°	6621.5	5954.7	2804.7	1141.5	591.0	384.4	319.0	286.4	273.3	269.4
7505.5	45°	7191.6	6332.6	2808.7	1036.9	513.9	341.3	291.6	264.1	256.3	251.1
8172.3	47.5°	7727.7	6654.2	2735.4	924.5	438.0	308.6	269.4	251.1	244.5	238.0
8841.8	50°	8227.2	6868.7	2558.9	793.7	377.9	282.4	252.4	239.3	232.7	226.2
9448.5	52.5°	8615.6	6902.7	2267.3	659.0	336.0	262.8	241.9	230.1	222.3	215.7
9938.8	55°	8788.2	6689.5	1852.8	533.5	303.4	245.8	231.4	219.7	210.5	204.0
10324.6	57.5°	8743.7	6241.0	1444.9	428.9	272.0	228.8	218.4	210.5	200.1	189.6
10637.1	60°	8525.4	5640.9	1089.2	357.0	243.2	210.5	204.0	197.4	183.1	167.4
10757.4	62.5°	8147.5	4886.4	776.7	295.5	211.8	189.6	187.0	181.8	160.8	132.1
10579.5	65°	7569.5	3969.8	523.0	245.8	181.8	166.1	167.4	158.2	130.8	98.1
9928.4	67.5°	6724.8	2902.8	334.7	201.4	151.7	138.6	139.9	134.7	111.1	83.7
8694.0	70°	5648.7	1922.1	218.4	153.0	121.6	107.2	115.1	116.4	94.1	68.0
6672.5	72.5°	4141.1	1135.0	153.0	113.8	88.9	74.5	94.1	96.8	75.8	51.0
4014.2	75°	2360.2	538.7	115.1	82.4	54.9	52.3	73.2	73.2	52.3	34.0
1737.8	77.5°	991.1	224.9	81.1	53.6	31.4	30.1	49.7	45.8	26.2	15.7
423.7	80°	286.4	100.7	43.1	26.2	13.1	11.8	19.6	14.4	6.5	2.6
160.8	82.5°	112.5	44.5	17.0	10.5	5.2	5.2	2.6	0.0	0.0	0.0
91.5	85°	66.7	18.3	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0
19.6	87.5°	17.0	3.9	2.6	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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<u>180°</u>
2268.6
2252.9
2156.2
1880.3
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975.4
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699.5
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577.9
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470.7
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350.4
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