

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: P943086

Luminaire Tested: **GALN-SB7B-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943086
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-SB7B-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA 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: 19117 lumens
Efficiency: N/A
Efficacy: 74.5 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

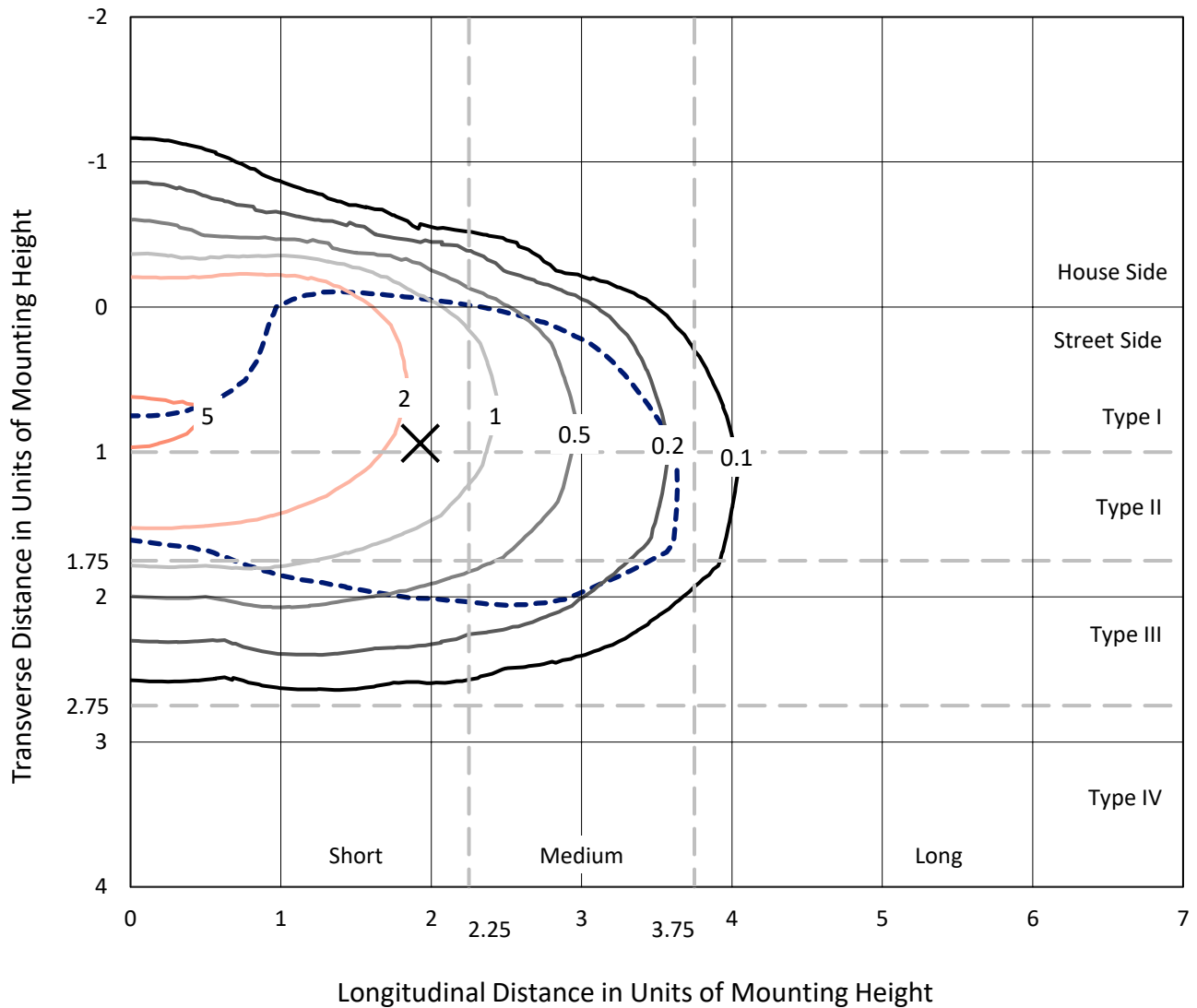
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

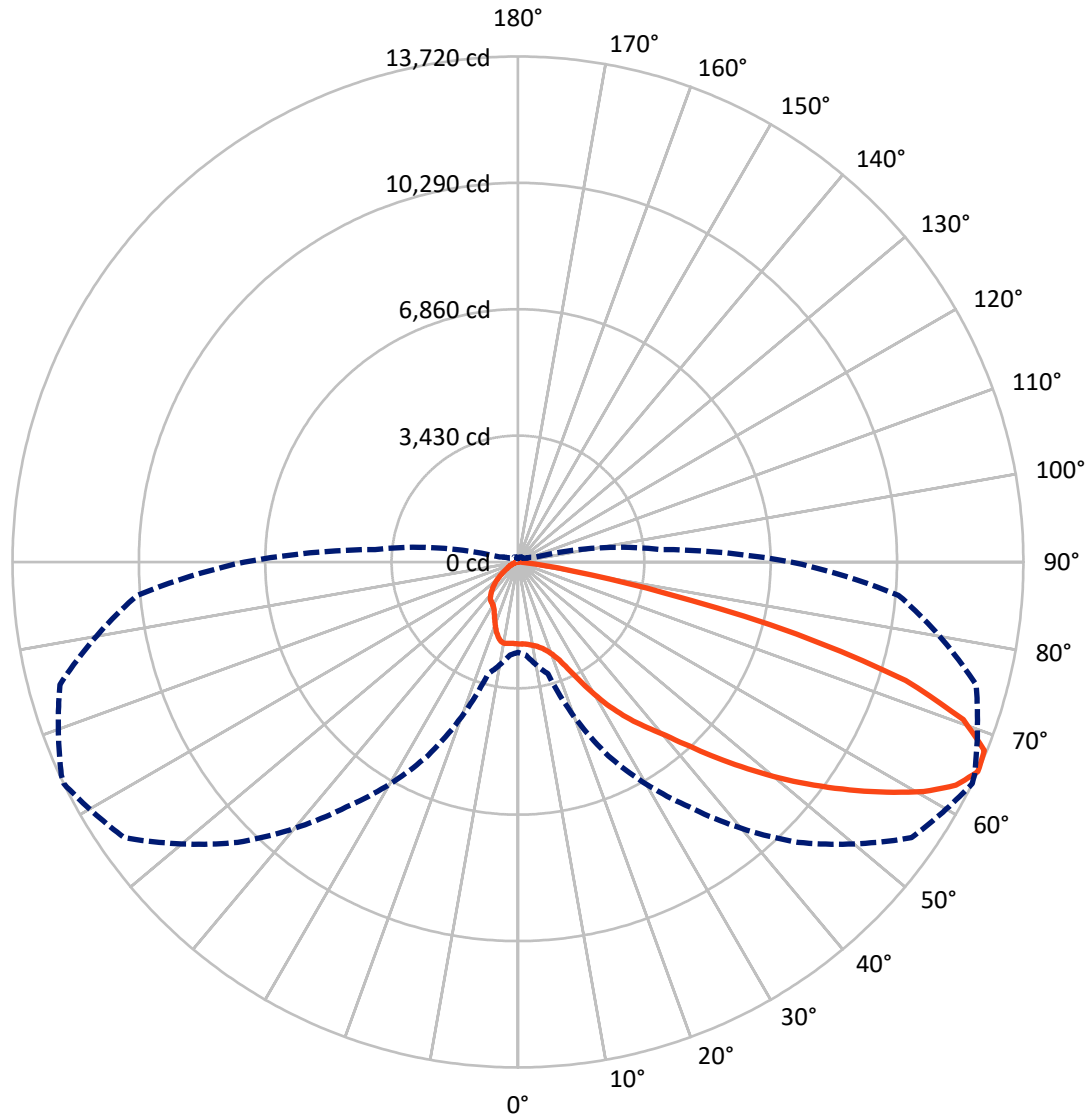
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2556.5	0.0	2556.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16560.5	0.0	16560.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	19117.0	0.0	19117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	1.1
10°-20°	556.4	2.9
20°-30°	1054.3	5.5
30°-40°	2133.5	11.2
40°-50°	3634.4	19.0
50°-60°	4942.5	25.9
60°-70°	4641.2	24.3
70°-80°	1859.5	9.7
80°-90°	90.1	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°	19117.0	100.0
0°-180°	19117.0	100.0

Coefficient of Utilization



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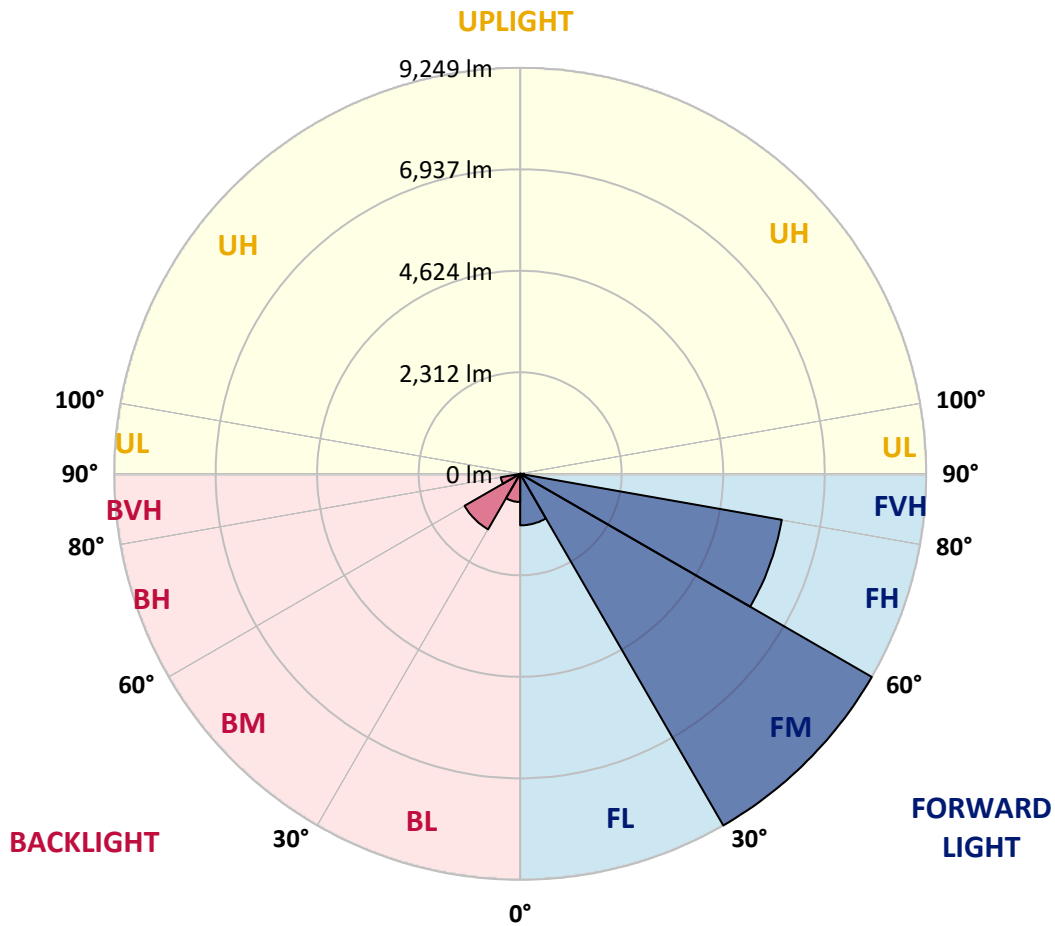
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.0	6.1			
FM (30°-60°)	9248.8	48.4			
FH (60°-80°)	6052.0	31.7			G3/7500
FVH (80°-90°)	85.7	0.4			G1/100
BL (0°-30°)	641.9	3.4	B2/1000		
BM (30°-60°)	1461.5	7.6	B2/2500		
BH (60°-80°)	448.7	2.3	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5
2.5°	2215.8	2231.2	2227.4	2223.5	2222.2	2224.8	2226.1	2224.8	2224.8	2224.8
5°	2173.5	2186.3	2186.3	2195.3	2208.1	2223.5	2235.0	2237.6	2240.2	2244.0
7.5°	2092.8	2103.0	2110.7	2140.2	2172.2	2213.3	2247.9	2265.8	2268.4	2282.5
10°	2037.7	2050.5	2063.3	2094.1	2140.2	2201.7	2260.7	2304.2	2310.7	2344.0
12.5°	2035.1	2047.9	2064.6	2097.9	2151.7	2217.1	2288.9	2351.7	2363.2	2411.9
15°	2062.0	2077.4	2092.8	2133.8	2191.5	2270.9	2347.8	2426.0	2437.5	2506.7
17.5°	2117.1	2137.6	2149.2	2190.2	2251.7	2340.1	2441.4	2531.1	2541.3	2622.1
20°	2226.1	2250.4	2254.3	2287.6	2347.8	2442.7	2563.1	2674.6	2687.4	2779.7
22.5°	2451.6	2486.2	2455.5	2472.1	2526.0	2620.8	2751.5	2892.5	2910.4	3015.5
25°	2848.9	2897.6	2818.1	2790.0	2813.0	2911.7	3075.7	3253.9	3274.4	3359.0
27.5°	3629.4	3566.6	3446.1	3328.2	3259.0	3315.4	3499.9	3720.4	3746.0	3828.0
30°	4486.7	4431.6	4268.9	4007.4	3843.4	3834.4	4004.9	4250.9	4280.4	4358.6
32.5°	5345.4	5292.8	5116.0	4794.3	4509.8	4368.8	4486.7	4759.7	4775.1	4825.1
35°	6189.9	6136.1	5959.3	5629.9	5280.0	4959.6	4936.6	5244.1	5249.3	5301.8
37.5°	7039.6	6994.8	6806.4	6483.4	6138.7	5696.5	5482.5	5702.9	5709.3	5760.6
40°	7645.8	7665.0	7535.6	7285.7	6989.6	6506.5	6095.1	6191.2	6152.8	6238.6
42.5°	8166.1	8204.5	8091.8	7966.2	7794.4	7369.0	6853.8	6837.1	6775.6	6821.7
45°	8615.9	8648.0	8546.7	8517.2	8513.4	8214.8	7682.9	7583.0	7497.1	7488.2
47.5°	8781.2	8842.8	8886.3	8985.0	9177.2	9051.7	8540.3	8385.2	8289.1	8218.6
50°	8844.0	8909.4	9058.1	9345.1	9800.1	9853.9	9393.8	9219.5	9101.6	8973.5
52.5°	8759.5	8876.1	9076.0	9559.2	10219.2	10497.3	10212.7	10060.2	9925.7	9716.8
55°	8260.9	8377.6	8786.4	9556.6	10428.0	10948.4	10986.8	10918.9	10767.7	10438.3
57.5°	7210.1	7383.1	8030.3	9231.1	10424.2	11336.7	11745.5	11794.2	11625.0	11153.4
60°	5754.2	5988.7	6778.2	8509.6	10102.5	11546.9	12410.6	12654.1	12474.7	11858.3
62.5°	4015.1	4286.8	5034.0	7379.2	9366.9	11395.6	12896.3	13346.2	13210.3	12488.8
65°	2449.1	2536.2	3138.5	5806.7	8116.1	10762.5	13046.3	13720.4	13675.5	12874.5
67.5°	1631.4	1704.5	1877.5	3981.8	6300.1	9497.6	12687.4	13655.0	13667.8	12811.7
70°	983.0	1045.8	1158.5	2315.8	4083.0	7517.6	11576.3	12822.0	12896.3	11972.3
72.5°	405.0	447.3	549.8	1049.6	2114.6	4771.2	9218.3	11008.6	11181.6	10066.6
75°	229.4	251.2	323.0	526.7	917.6	2223.5	5583.8	7814.9	8070.0	6938.4
77.5°	152.5	162.8	208.9	340.9	516.5	758.7	2386.3	4071.5	4558.5	3789.6
80°	102.5	111.5	143.5	228.1	335.8	325.5	760.0	1508.4	1855.7	1302.1
82.5°	69.2	70.5	102.5	149.9	212.7	157.6	224.3	469.1	589.5	376.8
85°	39.7	38.4	75.6	87.1	94.8	65.4	67.9	141.0	184.5	158.9
87.5°	5.1	7.7	29.5	23.1	12.8	14.1	14.1	24.3	35.9	38.4
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°
2223.5	0°	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5
2226.1	2.5°	2226.1	2224.8	2220.9	2217.1	2208.1	2203.0	2205.6	2203.0	2201.7	2203.0
2242.7	5°	2242.7	2238.9	2228.6	2215.8	2197.9	2176.1	2162.0	2141.5	2122.3	2110.7
2287.6	7.5°	2287.6	2283.7	2269.6	2233.8	2176.1	2085.1	2001.8	1928.7	1873.6	1841.6
2359.4	10°	2359.4	2352.9	2331.2	2251.7	2100.5	1901.8	1736.5	1599.4	1509.7	1467.4
2443.9	12.5°	2443.9	2436.2	2397.8	2235.0	1956.9	1646.8	1418.7	1266.2	1182.9	1145.7
2541.3	15°	2543.9	2533.6	2458.0	2155.6	1748.0	1364.9	1156.0	1041.9	988.1	954.8
2665.6	17.5°	2668.2	2650.3	2502.9	2036.4	1521.2	1149.6	994.5	908.6	861.2	829.2
2828.4	20°	2829.7	2800.2	2538.8	1894.1	1312.3	1013.7	885.6	813.8	777.9	749.7
3059.1	22.5°	3055.2	3012.9	2582.3	1740.4	1164.9	920.2	804.8	752.3	722.8	690.8
3380.8	25°	3334.6	3284.6	2636.2	1598.1	1063.7	839.4	745.9	702.3	667.7	630.5
3802.4	27.5°	3725.5	3635.8	2700.2	1481.5	976.5	770.2	692.0	643.3	603.6	572.9
4280.4	30°	4161.2	4013.8	2756.6	1411.0	897.1	706.1	621.6	572.9	535.7	513.9
4709.7	32.5°	4573.9	4374.0	2793.8	1380.2	825.3	633.1	544.7	492.1	463.9	457.5
5130.1	35°	4963.5	4699.5	2790.0	1350.8	761.2	560.0	469.1	415.2	393.4	397.3
5582.5	37.5°	5412.0	5046.8	2763.0	1304.6	708.7	493.4	403.7	356.3	337.1	338.3
6132.3	40°	5933.6	5447.9	2746.4	1217.5	651.0	431.9	349.9	311.4	297.3	292.2
6711.5	42.5°	6489.8	5836.2	2748.9	1118.8	579.3	376.8	312.7	280.7	267.8	264.0
7356.2	45°	7048.6	6206.6	2752.8	1016.3	503.7	334.5	285.8	258.9	251.2	246.1
8009.7	47.5°	7574.0	6521.9	2681.0	906.1	429.3	302.4	264.0	246.1	239.7	233.2
8665.9	50°	8063.6	6732.0	2508.0	777.9	370.4	276.8	247.3	234.5	228.1	221.7
9260.5	52.5°	8444.2	6765.4	2222.2	645.9	329.4	257.6	237.1	225.6	217.9	211.5
9741.1	55°	8613.4	6556.5	1816.0	522.9	297.3	240.9	226.8	215.3	206.3	199.9
10119.2	57.5°	8569.8	6116.9	1416.1	420.4	266.6	224.3	214.0	206.3	196.1	185.8
10425.5	60°	8355.8	5528.6	1067.5	349.9	238.4	206.3	199.9	193.5	179.4	164.0
10543.4	62.5°	7985.4	4789.2	761.2	289.6	207.6	185.8	183.3	178.1	157.6	129.4
10369.1	65°	7418.9	3890.8	512.6	240.9	178.1	162.8	164.0	155.1	128.2	96.1
9730.9	67.5°	6591.1	2845.1	328.1	197.4	148.7	135.8	137.1	132.0	108.9	82.0
8521.1	70°	5536.3	1883.9	214.0	149.9	119.2	105.1	112.8	114.1	92.3	66.6
6539.8	72.5°	4058.7	1112.4	149.9	111.5	87.1	73.0	92.3	94.8	74.3	50.0
3934.4	75°	2313.2	528.0	112.8	80.7	53.8	51.3	71.8	71.8	51.3	33.3
1703.2	77.5°	971.4	220.4	79.5	52.5	30.8	29.5	48.7	44.9	25.6	15.4
415.2	80°	280.7	98.7	42.3	25.6	12.8	11.5	19.2	14.1	6.4	2.6
157.6	82.5°	110.2	43.6	16.7	10.3	5.1	5.1	2.6	0.0	0.0	0.0
89.7	85°	65.4	17.9	7.7	3.8	1.3	0.0	0.0	0.0	0.0	0.0
19.2	87.5°	16.7	3.8	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>
2223.5
2208.1
2113.3
1842.9
1463.5
1141.9
956.0
826.6
744.6
685.6
626.7
566.4
510.1
461.4
397.3
343.5
290.9
262.7
246.1
233.2
221.7
210.2
198.6
184.5
161.5
126.9
93.6
78.2
64.1
47.4
30.8
15.4
2.6
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