

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: P953749

Luminaire Tested: **GALN-SB7A-950-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-950-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

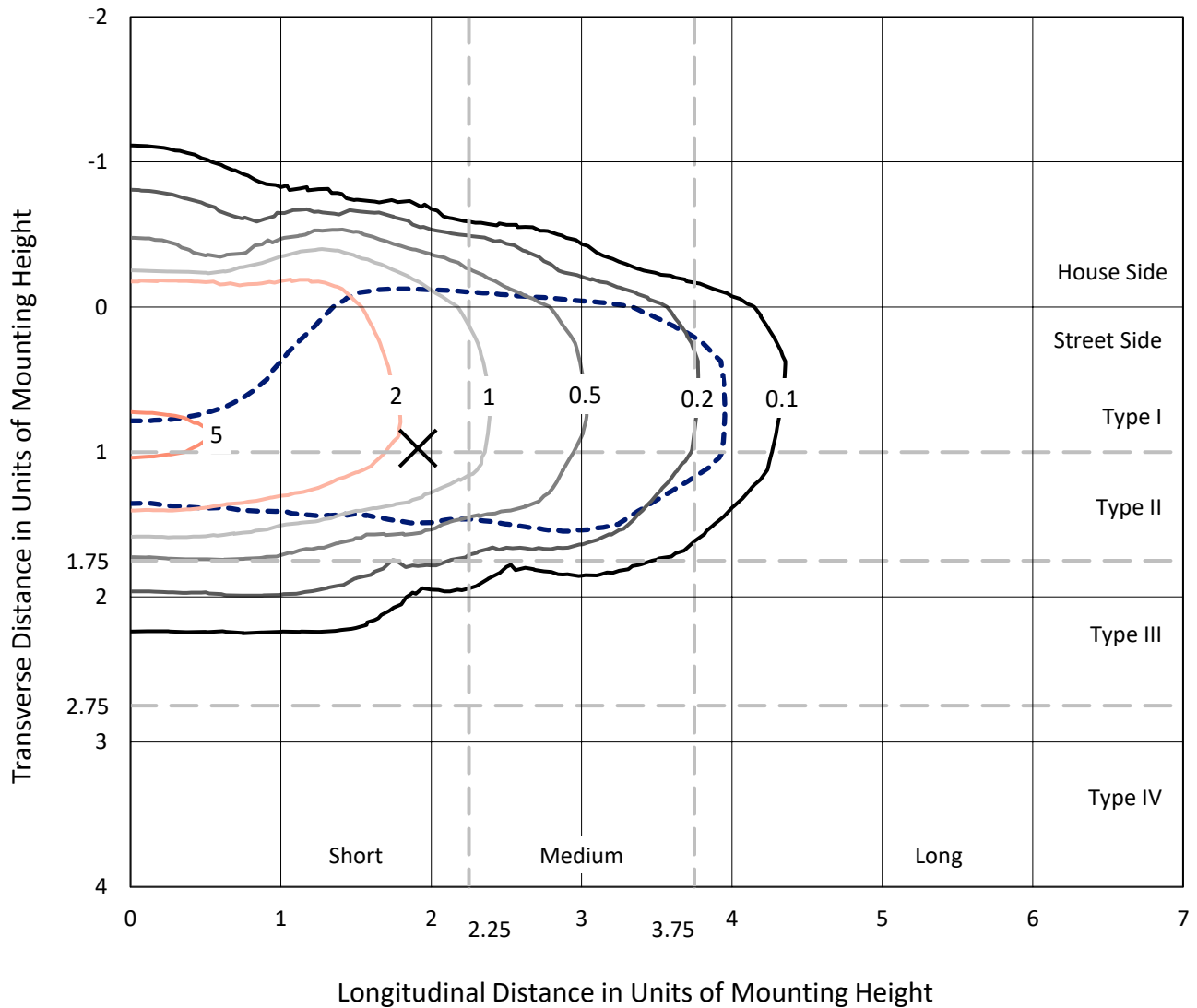
Lumens per Lamp: N/A  
Luminaire Lumens: 16960 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

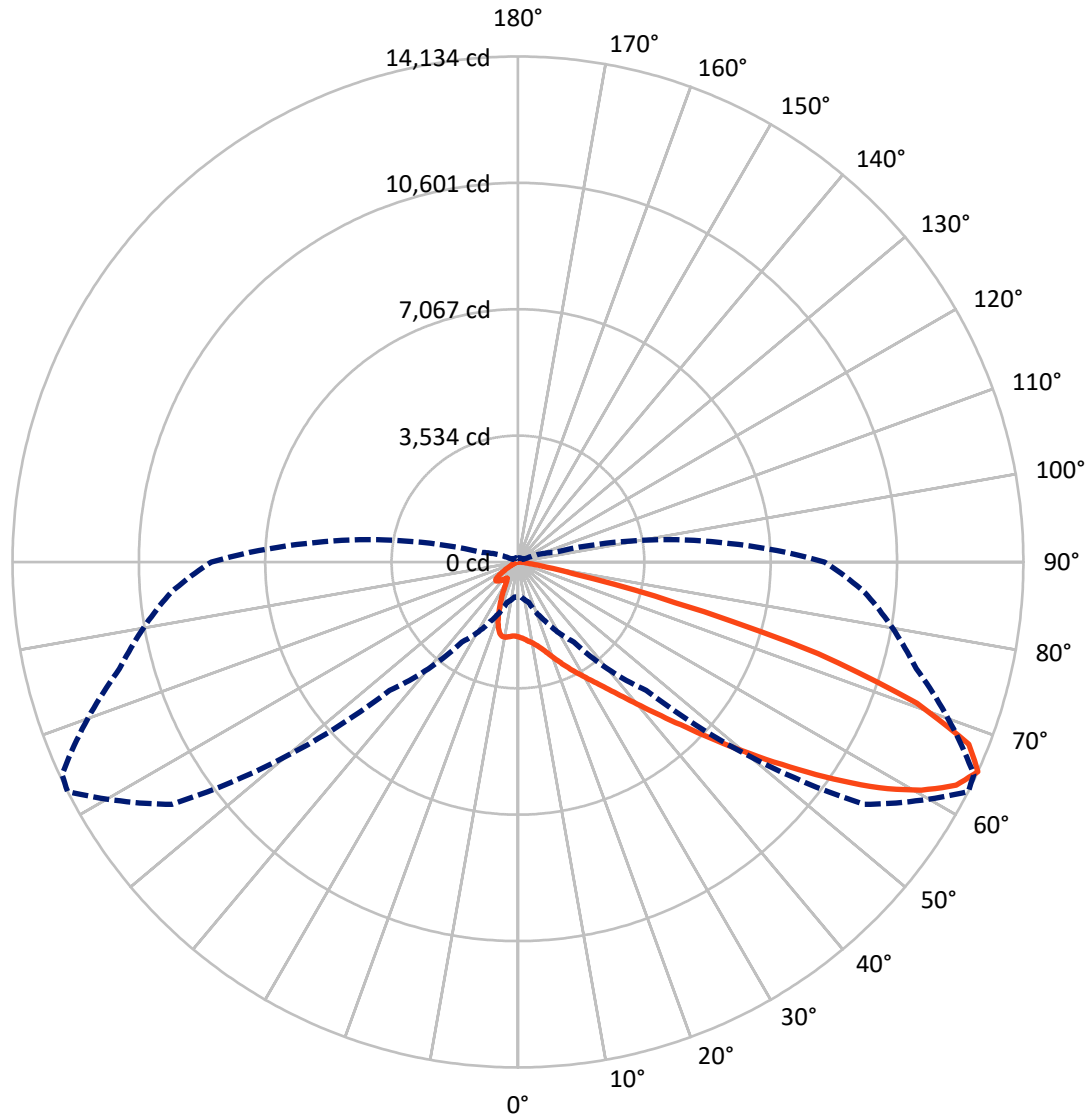
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2493.0	0.0	2493.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	14467.0	0.0	14467.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	16960.0	0.0	16960.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.2	1.2
10°-20°	547.2	3.2
20°-30°	952.8	5.6
30°-40°	1717.4	10.1
40°-50°	3406.1	20.1
50°-60°	4639.7	27.4
60°-70°	3703.3	21.8
70°-80°	1675.8	9.9
80°-90°	120.5	0.7
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°	16960.0	100.0
0°-180°	16960.0	100.0

**Coefficient of Utilization**



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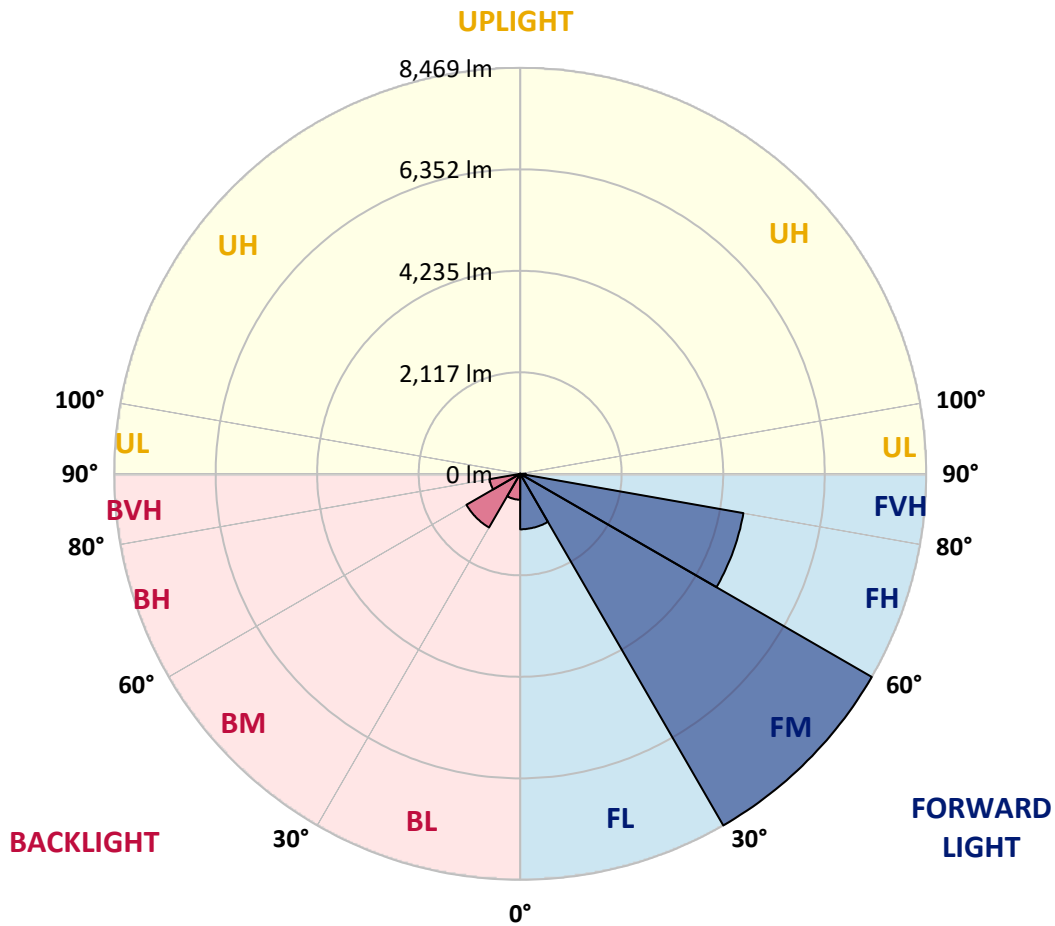
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.7	6.8			
FM (30°-60°)	8469.4	49.9			
FH (60°-80°)	4728.4	27.9			G2/5000
FVH (80°-90°)	111.5	0.7			G2/225
BL (0°-30°)	539.5	3.2	B2/1000		
BM (30°-60°)	1293.7	7.6	B2/2500		
BH (60°-80°)	650.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2
2.5°	2142.2	2136.4	2144.5	2141.0	2138.7	2134.0	2131.7	2129.4	2124.7	2121.2
5°	2148.0	2144.5	2152.7	2159.7	2166.7	2173.7	2177.2	2181.9	2177.2	2167.9
7.5°	2099.0	2096.7	2114.2	2135.2	2166.7	2193.5	2222.7	2239.0	2240.2	2236.7
10°	2095.5	2089.7	2107.2	2132.9	2173.7	2221.5	2272.9	2307.9	2312.5	2327.7
12.5°	2150.4	2144.5	2169.0	2197.0	2239.0	2289.2	2352.2	2401.2	2408.2	2429.2
15°	2242.5	2234.4	2262.4	2298.5	2352.2	2409.4	2475.9	2520.2	2526.1	2551.7
17.5°	2349.9	2341.7	2374.4	2412.9	2471.2	2549.4	2626.4	2675.4	2682.4	2698.7
20°	2487.6	2477.1	2502.7	2537.7	2599.6	2692.9	2785.1	2855.1	2853.9	2853.9
22.5°	2647.4	2631.1	2653.2	2681.2	2739.6	2852.8	2975.3	3058.1	3058.1	3025.4
25°	2818.9	2802.6	2827.1	2852.8	2904.1	3032.4	3175.9	3278.6	3283.3	3227.3
27.5°	3033.6	3012.6	3031.3	3061.6	3091.9	3222.6	3393.0	3512.0	3514.3	3428.0
30°	3446.6	3387.1	3328.8	3296.1	3310.1	3439.6	3621.7	3753.5	3765.2	3646.2
32.5°	4202.7	4191.0	3985.7	3717.3	3577.3	3673.0	3877.2	4035.9	4042.9	3890.0
35°	5377.6	5363.6	5033.4	4522.4	4066.2	3985.7	4187.5	4375.4	4370.7	4198.0
37.5°	6780.1	6767.3	6332.1	5648.3	4909.8	4458.2	4587.7	4784.9	4814.1	4587.7
40°	7978.4	7930.5	7655.2	6995.9	6029.9	5242.3	5157.1	5287.8	5318.1	5049.8
42.5°	8886.1	8845.3	8705.3	8293.4	7385.7	6402.1	5828.0	5878.2	5912.0	5590.0
45°	9356.3	9347.0	9403.0	9364.5	8767.1	7825.5	6787.1	6578.2	6591.1	6188.5
47.5°	9422.8	9418.2	9673.7	10035.4	9954.9	9431.0	8018.0	7451.0	7405.5	6864.1
50°	9030.8	9021.5	9511.5	10189.4	10748.3	10779.8	9415.8	8434.6	8334.2	7563.0
52.5°	7778.9	7776.5	8581.6	9709.9	11027.1	11960.6	10797.3	9515.0	9347.0	8302.7
55°	5985.5	6028.7	6951.6	8285.2	10518.4	12528.8	12037.6	10714.4	10456.6	9047.1
57.5°	4240.0	4303.0	5215.5	6403.2	8941.0	12192.7	12876.5	11916.2	11638.5	9789.2
60°	2277.5	2333.5	3247.1	4664.7	6651.8	10939.6	13318.7	12959.3	12696.8	10493.9
62.5°	1357.0	1375.6	1753.7	3011.4	4499.1	8357.6	13130.8	13753.9	13538.0	11085.5
65°	974.3	977.8	1167.9	1838.8	2731.4	5077.8	11813.5	14134.2	14067.7	11531.2
67.5°	820.2	817.9	897.2	1221.6	1861.0	2543.6	9054.1	13596.4	13878.7	11813.5
70°	703.6	707.1	800.4	894.9	1399.0	1439.8	4501.4	11838.0	12440.1	11888.2
72.5°	523.9	535.5	621.9	815.6	1055.9	990.6	1554.1	8777.6	9866.2	11201.0
75°	369.9	375.7	437.5	686.1	787.6	721.1	793.4	4537.6	5933.0	8587.4
77.5°	284.7	295.2	331.4	479.5	775.9	506.4	485.4	1570.5	2412.9	5187.5
80°	154.0	172.7	239.2	346.5	544.9	358.2	240.4	625.4	817.9	2425.7
82.5°	79.3	88.7	166.8	249.7	310.4	312.7	119.0	260.2	337.2	749.1
85°	31.5	38.5	112.0	137.7	159.8	154.0	53.7	105.0	121.3	207.7
87.5°	7.0	11.7	40.8	31.5	30.3	32.7	12.8	24.5	23.3	24.5
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°
2093.2	0°	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2	2093.2
2107.2	2.5°	2106.0	2101.4	2088.5	2074.5	2058.2	2048.8	2043.0	2041.8	2033.7	2027.8
2153.9	5°	2141.0	2136.4	2111.9	2082.7	2051.2	2026.7	2003.3	1982.3	1952.0	1946.2
2221.5	7.5°	2211.0	2198.2	2158.5	2118.9	2059.3	1988.2	1901.8	1802.7	1714.0	1687.1
2311.4	10°	2297.4	2279.9	2229.7	2159.7	2027.8	1834.2	1625.3	1431.6	1277.6	1234.4
2417.5	12.5°	2395.4	2380.2	2313.7	2184.2	1896.0	1544.8	1225.1	984.8	835.4	798.1
2530.7	15°	2512.1	2489.9	2397.7	2146.9	1660.3	1173.8	841.2	698.9	645.2	638.2
2660.2	17.5°	2635.7	2599.6	2472.4	2012.7	1343.0	834.2	649.9	609.1	585.7	578.7
2790.9	20°	2748.9	2702.2	2516.7	1809.7	1003.4	649.9	582.2	555.4	534.4	526.2
2921.6	22.5°	2862.1	2795.6	2516.7	1533.1	752.6	576.4	534.4	509.9	485.4	474.9
3061.6	25°	2979.9	2891.3	2472.4	1225.1	605.6	528.5	488.9	462.0	441.0	428.2
3194.6	27.5°	3094.3	2971.8	2370.9	933.4	539.0	486.5	446.9	421.2	401.4	392.0
3339.3	30°	3202.8	3051.1	2228.5	708.2	495.9	445.7	408.4	386.2	366.4	357.0
3527.1	32.5°	3349.8	3151.4	2076.8	581.1	458.5	407.2	373.4	352.4	334.9	327.9
3771.0	35°	3554.0	3299.6	1946.2	570.6	427.0	375.7	341.9	322.0	304.5	298.7
4086.0	37.5°	3843.3	3538.8	1877.3	640.6	401.4	347.7	316.2	295.2	278.9	274.2
4486.2	40°	4200.4	3863.2	1914.7	710.6	383.9	323.2	292.9	271.9	257.9	252.0
4945.9	42.5°	4623.9	4263.4	2121.2	764.2	372.2	302.2	270.7	247.4	238.0	235.7
5467.5	45°	5110.5	4703.2	2437.4	821.4	353.5	282.4	248.5	231.0	224.0	222.9
6034.5	47.5°	5663.5	5186.3	2803.7	892.6	334.9	263.7	231.0	219.4	213.5	211.2
6626.1	50°	6211.9	5672.8	3180.6	932.2	319.7	246.2	217.0	207.7	203.0	201.9
7251.5	52.5°	6785.9	6173.4	3485.1	894.9	306.9	232.2	205.4	198.4	193.7	192.5
7827.9	55°	7333.1	6578.2	3537.6	759.6	281.2	218.2	192.5	189.0	183.2	183.2
8412.4	57.5°	7804.5	6781.3	3166.6	557.7	255.5	197.2	179.7	176.2	171.5	170.3
8939.8	60°	8237.4	6722.9	2444.4	375.7	227.5	176.2	163.3	161.0	156.3	150.5
9398.3	62.5°	8481.2	6466.2	1672.0	245.0	199.5	154.0	144.7	143.5	133.0	121.3
9737.9	65°	8573.4	5938.9	1043.1	178.5	166.8	131.8	124.8	122.5	107.3	94.5
9930.4	67.5°	8492.9	5070.8	526.2	141.2	131.8	109.7	102.7	102.7	92.2	80.5
9918.7	70°	8170.9	3801.3	221.7	113.2	101.5	84.0	84.0	88.7	78.2	65.3
9404.2	72.5°	7472.0	2557.6	117.8	86.3	75.8	59.5	68.8	72.3	61.8	49.0
7697.2	75°	5940.0	1560.0	81.7	64.2	47.8	42.0	52.5	54.8	42.0	32.7
5277.3	77.5°	4062.7	896.1	54.8	40.8	30.3	24.5	36.2	33.8	22.2	15.2
2034.8	80°	1784.0	373.4	31.5	18.7	11.7	9.3	12.8	9.3	7.0	4.7
278.9	82.5°	208.9	87.5	11.7	7.0	4.7	2.3	1.2	0.0	0.0	0.0
85.2	85°	43.2	10.5	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
15.2	87.5°	8.2	2.3	1.2	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>
2093.2
2033.7
1943.8
1674.3
1218.1
787.6
631.2
575.2
521.5
469.0
423.5
392.0
358.2
327.9
298.7
273.0
250.9
235.7
221.7
211.2
201.9
192.5
182.0
169.2
149.3
119.0
93.3
79.3
64.2
49.0
31.5
16.3
4.7
0.0
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