

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: P953667

Luminaire Tested: **GALN-SB7A-927-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-927-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

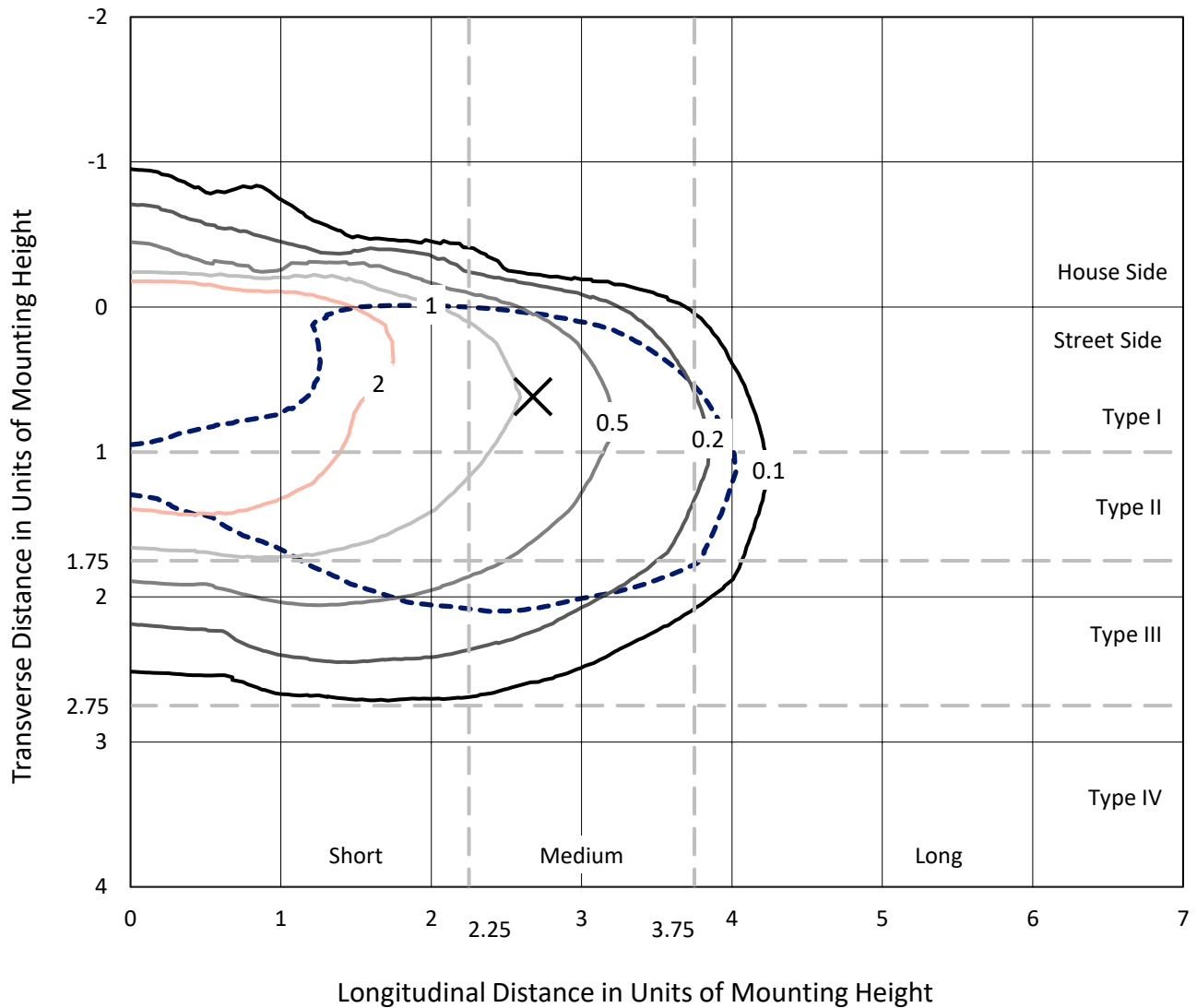
Lumens per Lamp: N/A  
Luminaire Lumens: 16166 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

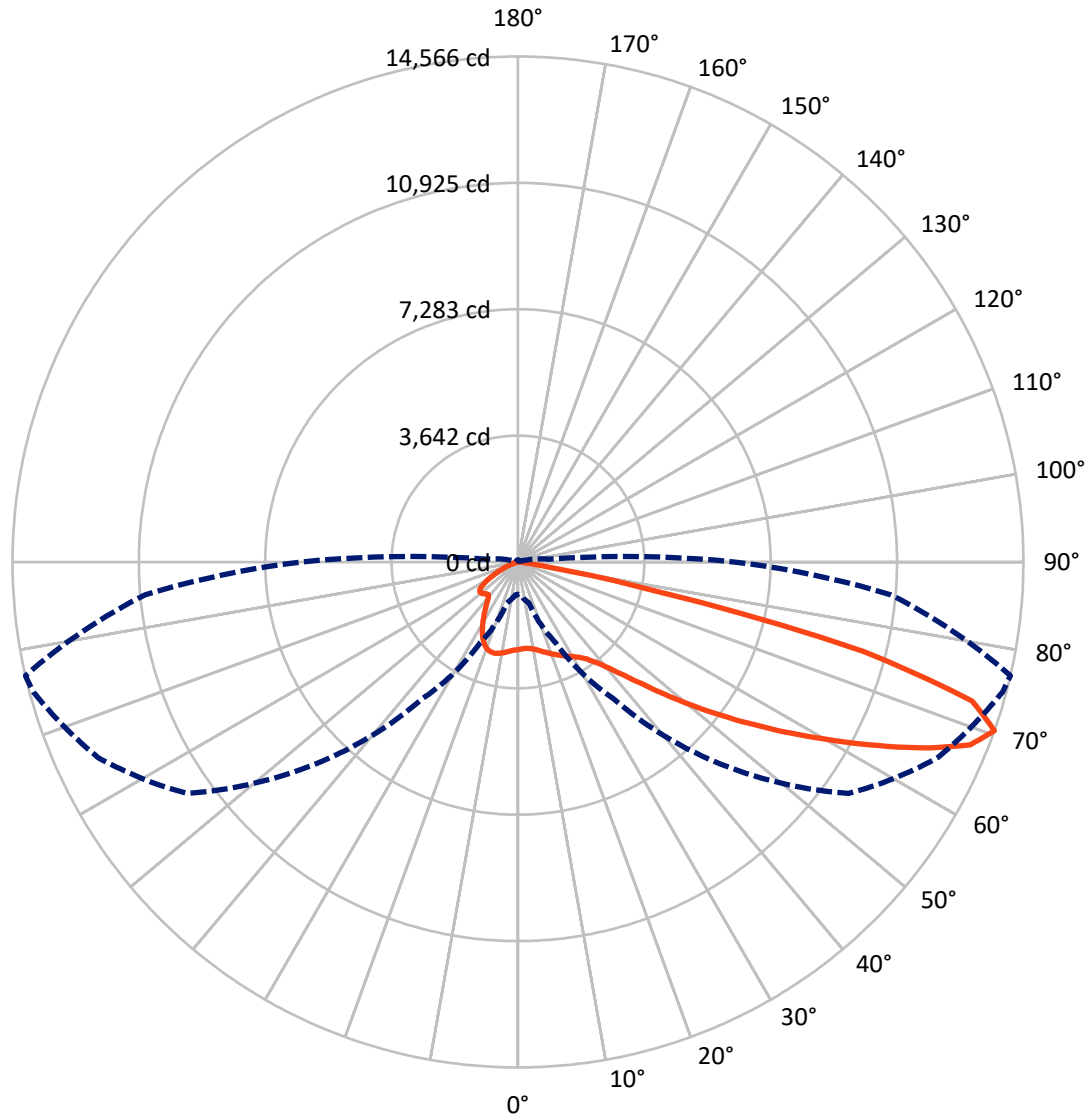
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1704.1	0.0	1704.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14461.9	0.0	14461.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16166.0	0.0	16166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	1.3
10°-20°	515.9	3.2
20°-30°	798.0	4.9
30°-40°	1447.9	9.0
40°-50°	2733.1	16.9
50°-60°	3949.2	24.4
60°-70°	4203.8	26.0
70°-80°	2227.7	13.8
80°-90°	73.1	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°	16166.0	100.0
0°-180°	16166.0	100.0

**Coefficient of Utilization**



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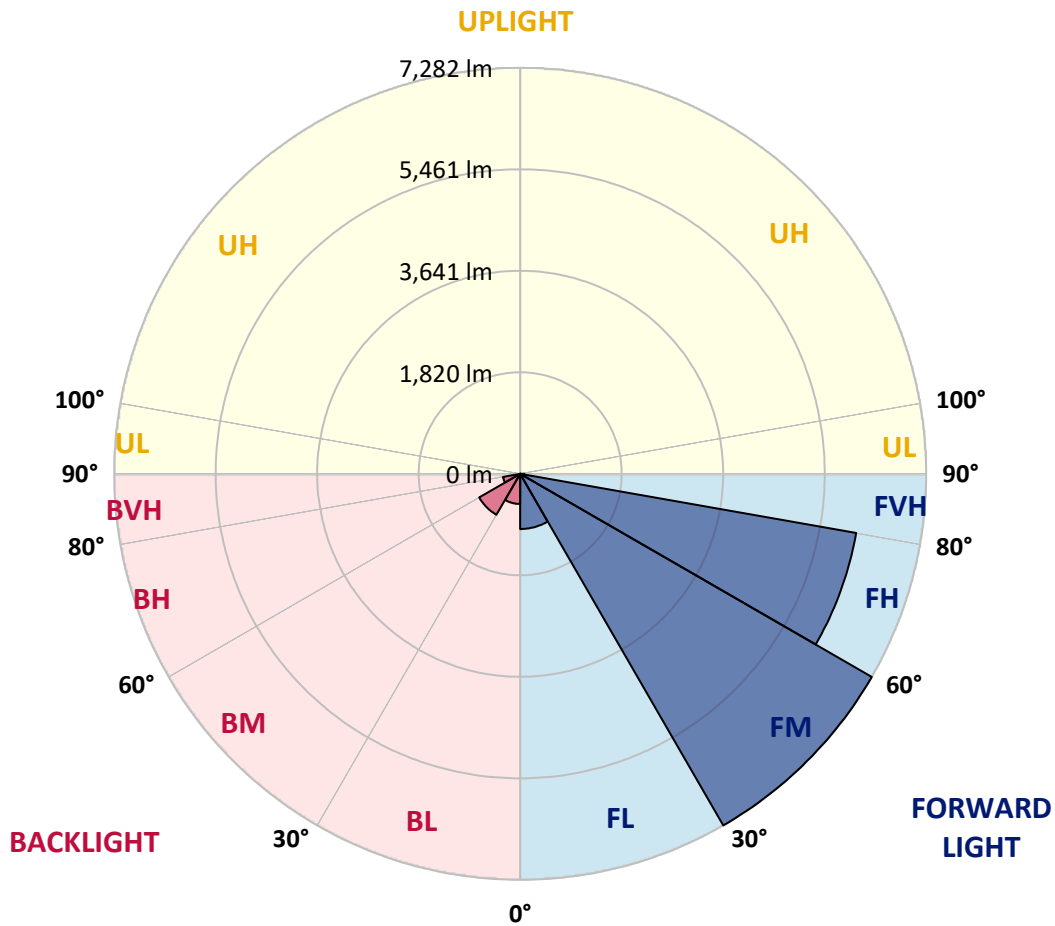
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.7	6.1			
FM (30°-60°)	7281.9	45.0			
FH (60°-80°)	6119.1	37.9			G3/7500
FVH (80°-90°)	71.2	0.4			G1/100
BL (0°-30°)	541.4	3.3	B2/1000		
BM (30°-60°)	848.3	5.2	B1/1000		
BH (60°-80°)	312.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6
2.5°	2367.4	2388.9	2385.8	2400.1	2405.2	2425.6	2446.1	2473.6	2504.2	2503.2
5°	2233.7	2255.2	2260.3	2279.7	2304.2	2335.8	2377.7	2432.8	2490.0	2499.1
7.5°	2075.5	2097.9	2111.2	2150.0	2194.9	2260.3	2328.7	2409.3	2504.2	2517.5
10°	1917.2	1937.7	1955.0	2010.1	2081.6	2178.6	2289.9	2406.2	2533.9	2553.3
12.5°	1819.2	1838.6	1858.0	1906.0	1994.8	2113.2	2264.3	2420.5	2582.9	2610.4
15°	1784.5	1801.9	1817.2	1860.1	1942.8	2077.5	2259.2	2450.1	2645.1	2681.9
17.5°	1789.6	1798.8	1809.0	1841.7	1922.3	2061.2	2268.4	2501.2	2718.6	2751.3
20°	1819.2	1824.3	1825.4	1847.8	1919.3	2059.1	2286.8	2550.2	2788.1	2832.0
22.5°	1857.0	1859.0	1857.0	1872.3	1938.7	2074.5	2311.3	2609.4	2865.6	2906.5
25°	2033.6	1994.8	1945.8	1916.2	1971.3	2104.1	2348.1	2689.0	2950.4	2990.2
27.5°	2581.8	2470.6	2295.0	2097.9	2038.7	2146.9	2399.1	2769.7	3036.1	3071.9
30°	3472.1	3326.1	3028.0	2583.9	2255.2	2236.8	2465.5	2850.3	3127.0	3165.8
32.5°	4364.3	4328.6	3984.5	3370.0	2742.1	2436.9	2575.7	2959.6	3247.5	3278.1
35°	5266.8	5194.3	4912.5	4305.1	3492.5	2844.2	2759.5	3102.5	3405.7	3440.4
37.5°	5957.9	5914.0	5739.5	5239.2	4382.7	3473.1	3073.9	3324.0	3635.4	3674.2
40°	6568.4	6548.0	6488.8	6159.0	5378.1	4295.9	3562.9	3667.0	3953.9	3999.9
42.5°	7048.2	7096.2	7129.9	7038.0	6404.1	5235.1	4220.4	4148.9	4398.0	4445.0
45°	7539.3	7555.6	7691.4	7824.1	7422.9	6217.2	4961.5	4713.5	4950.3	5008.5
47.5°	7854.7	7920.1	8159.0	8392.8	8279.4	7191.2	5757.8	5380.1	5590.4	5699.6
50°	7878.2	8001.8	8330.5	8737.8	8903.2	8118.1	6623.5	6139.6	6363.2	6483.7
52.5°	7487.2	7679.2	8188.6	8784.8	9240.1	8903.2	7518.9	6899.2	7186.1	7343.3
55°	5740.5	5991.6	7654.7	8529.6	9253.4	9498.4	8390.7	7690.4	8102.8	8280.5
57.5°	5001.4	5127.9	6018.2	8086.5	9007.3	9738.3	9178.8	8443.8	9100.2	9320.7
60°	4161.2	4327.6	5047.3	7361.7	8673.5	9761.8	9875.1	9415.7	10181.4	10429.4
62.5°	2827.9	3008.6	3724.2	6116.2	8217.2	9750.5	10445.8	10416.2	11382.9	11649.4
65°	1751.9	1865.2	2336.8	4994.2	7579.1	9762.8	11043.0	11631.0	12650.9	12921.4
67.5°	1384.3	1436.4	1682.4	3834.5	6479.6	9487.2	11639.2	12773.4	13844.3	14058.7
70°	930.0	961.7	1224.0	2570.6	4820.7	8215.1	11628.0	13347.1	14458.9	14566.1
72.5°	490.0	514.5	715.6	1190.4	2911.6	5839.5	9801.6	12661.1	13847.4	13686.1
75°	245.0	285.8	481.9	604.4	1243.4	3256.6	6086.6	9982.3	10899.0	10274.3
77.5°	185.8	224.6	398.1	398.1	432.9	1096.4	2577.8	5444.4	5021.8	4181.6
80°	118.4	153.1	348.1	301.2	180.7	278.7	671.7	1525.2	1066.8	811.6
82.5°	69.4	100.0	289.9	199.1	101.1	103.1	189.9	324.6	276.7	215.4
85°	27.6	65.3	199.1	78.6	39.8	25.5	57.2	69.4	57.2	42.9
87.5°	0.0	15.3	34.7	0.0	3.1	2.0	4.1	5.1	5.1	4.1
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°
2521.6	0°	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6
2523.6	2.5°	2532.8	2534.9	2541.0	2542.0	2527.7	2509.4	2502.2	2499.1	2486.9	2485.9
2540.0	5°	2563.5	2572.6	2563.5	2536.9	2473.6	2384.8	2317.4	2262.3	2212.3	2197.0
2596.1	7.5°	2624.7	2633.9	2606.3	2502.2	2342.9	2166.3	2007.1	1894.8	1793.7	1755.9
2664.5	10°	2712.5	2724.8	2638.0	2427.7	2145.9	1862.1	1592.6	1402.7	1254.7	1194.4
2757.4	12.5°	2822.8	2827.9	2655.3	2314.4	1889.7	1484.4	1102.6	899.4	767.7	718.7
2869.7	15°	2944.3	2937.1	2657.4	2160.2	1540.5	1049.5	719.7	591.1	538.0	521.7
2982.0	17.5°	3071.9	3042.3	2616.5	1937.7	1157.7	717.7	533.9	503.3	494.1	490.0
3093.3	20°	3197.4	3131.1	2542.0	1646.7	831.0	536.0	484.9	475.7	470.6	468.6
3205.6	22.5°	3311.8	3198.5	2414.4	1308.8	603.3	473.7	458.4	450.2	441.0	436.9
3314.8	25°	3423.1	3237.2	2234.7	993.3	482.9	443.1	430.8	415.5	403.3	398.1
3432.2	27.5°	3531.3	3261.8	2010.1	735.0	430.8	414.5	392.0	370.6	361.4	359.4
3557.8	30°	3646.6	3269.9	1754.9	548.2	399.2	378.8	346.1	321.6	316.5	317.5
3727.3	32.5°	3787.5	3282.2	1497.6	449.2	372.6	335.9	297.1	271.6	267.5	271.6
3974.3	35°	3956.0	3306.7	1249.6	413.5	349.1	292.0	250.1	228.7	224.6	227.7
4290.8	37.5°	4184.6	3346.5	1017.8	406.3	329.7	255.2	210.3	192.9	192.9	194.0
4678.7	40°	4488.9	3452.7	810.6	401.2	319.5	227.7	177.6	170.5	173.6	175.6
5172.9	42.5°	4859.4	3678.3	670.7	395.1	308.3	215.4	161.3	158.2	163.3	165.4
5765.0	45°	5275.0	3964.1	621.7	384.9	298.1	223.6	154.2	150.1	156.2	157.2
6428.6	47.5°	5704.7	4243.8	615.6	373.6	287.9	235.8	152.1	142.9	150.1	151.1
7137.1	50°	6139.6	4426.6	621.7	356.3	271.6	235.8	153.1	135.8	141.9	145.0
7872.1	52.5°	6577.6	4510.3	617.6	318.5	243.0	221.5	153.1	129.7	135.8	137.8
8666.4	55°	7002.3	4494.0	555.4	262.4	206.2	196.0	149.1	124.5	128.6	129.7
9416.7	57.5°	7338.2	4266.3	440.0	204.2	167.4	163.3	135.8	118.4	121.5	120.5
10104.8	60°	7513.8	3766.1	314.4	157.2	131.7	128.6	119.4	110.3	112.3	107.2
10687.7	62.5°	7515.8	3104.5	210.3	124.5	105.2	102.1	102.1	99.0	97.0	86.8
11139.0	65°	7355.5	2370.5	139.9	99.0	84.7	79.6	85.8	84.7	77.6	63.3
11276.8	67.5°	6992.1	1553.8	106.2	77.6	65.3	62.3	68.4	71.5	66.4	53.1
10774.5	70°	6244.8	904.5	87.8	60.2	49.0	45.9	55.1	61.3	55.1	42.9
9209.5	72.5°	5187.2	488.0	71.5	44.9	33.7	30.6	43.9	50.0	43.9	31.6
5908.9	75°	3365.9	261.3	55.1	29.6	17.4	19.4	32.7	36.8	30.6	20.4
1734.5	77.5°	1130.1	115.4	34.7	14.3	8.2	8.2	19.4	22.5	14.3	7.1
315.5	80°	252.2	48.0	14.3	6.1	3.1	3.1	4.1	4.1	2.0	0.0
97.0	82.5°	82.7	19.4	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24.5	85°	31.6	7.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	12.3	1.0	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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<u>180°</u>
2521.6
2487.9
2187.8
1740.6
1168.9
703.4
521.7
489.0
466.5
435.9
396.1
357.3
317.5
270.5
226.6
192.9
175.6
165.4
158.2
152.1
146.0
137.8
129.7
120.5
106.2
83.7
61.3
52.1
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