

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: P943596

Luminaire Tested: **GALN-SB8A-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943596
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-SB8A-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 17316 lumens
Efficiency: N/A
Efficacy: 76.2 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

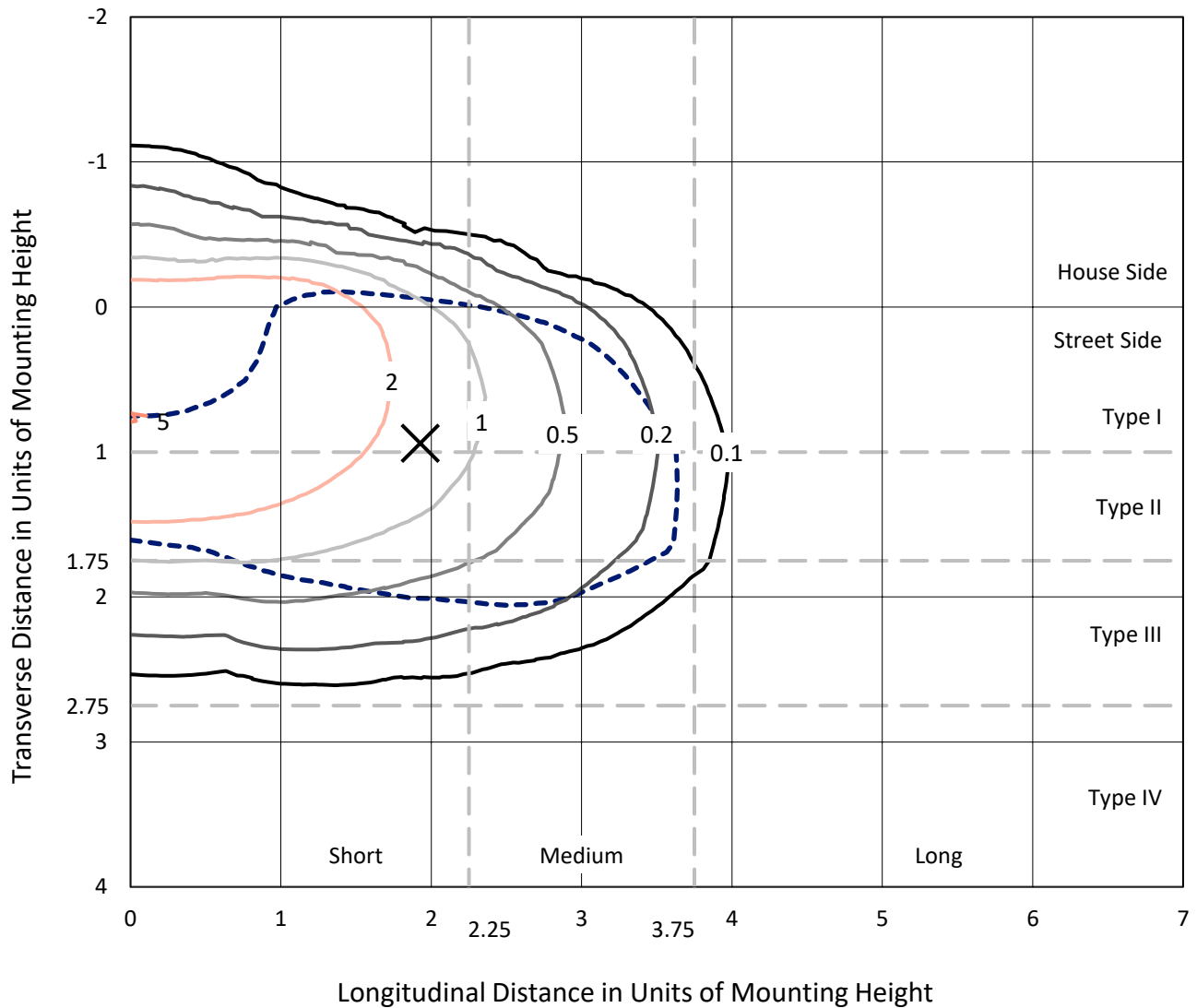
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

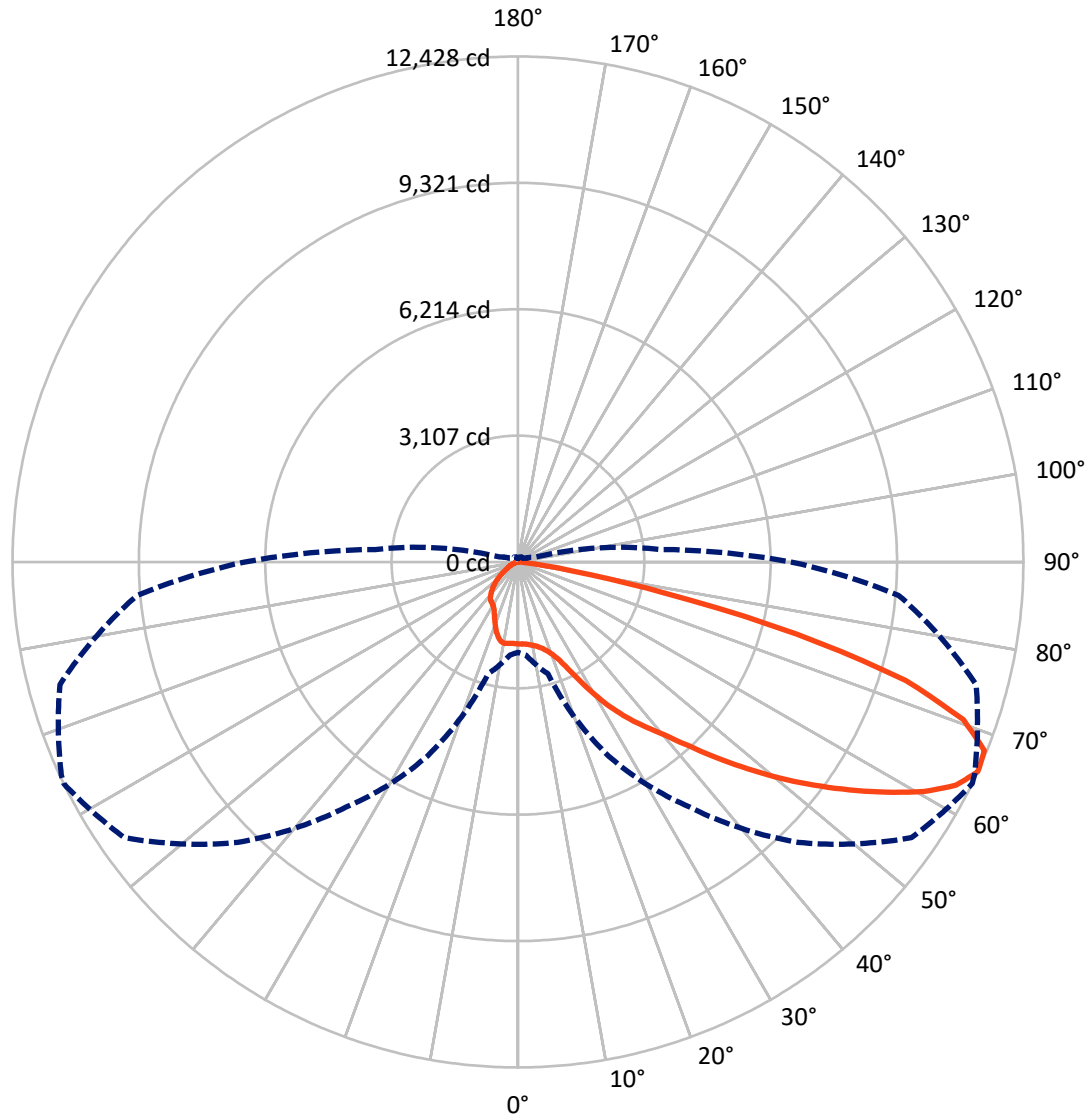
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2315.7	0.0	2315.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15000.3	0.0	15000.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	17316.0	0.0	17316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.1
10°-20°	504.0	2.9
20°-30°	955.0	5.5
30°-40°	1932.5	11.2
40°-50°	3292.0	19.0
50°-60°	4476.9	25.9
60°-70°	4204.0	24.3
70°-80°	1684.3	9.7
80°-90°	81.6	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°	17316.0	100.0
0°-180°	17316.0	100.0

Coefficient of Utilization



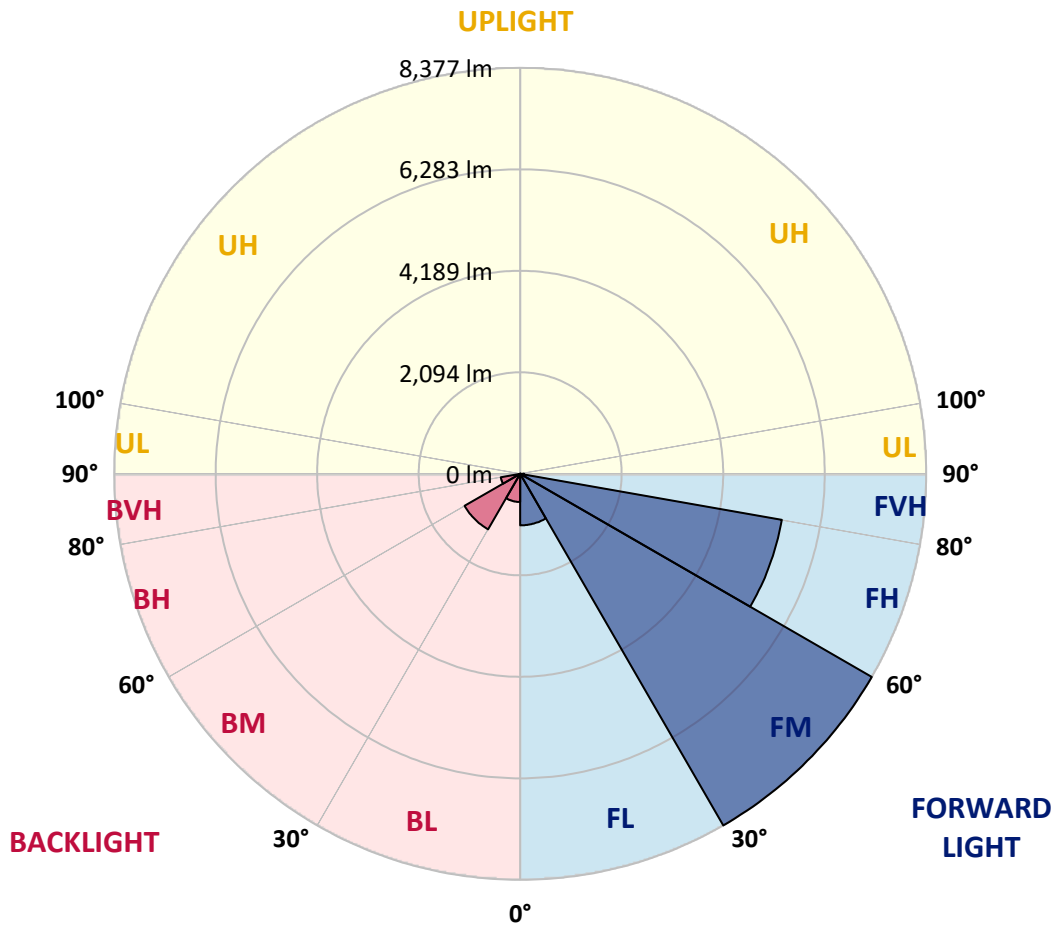
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.4	6.1			
FM (30°-60°)	8377.5	48.4			
FH (60°-80°)	5481.8	31.7			G3/7500
FVH (80°-90°)	77.6	0.4			G1/100
BL (0°-30°)	581.4	3.4	B2/1000		
BM (30°-60°)	1323.9	7.6	B2/2500		
BH (60°-80°)	406.4	2.3	B1/500		G1/500
BVH (80°-90°)	4.0	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0
2.5°	2007.1	2021.0	2017.5	2014.0	2012.9	2015.2	2016.4	2015.2	2015.2	2015.2
5°	1968.8	1980.4	1980.4	1988.5	2000.1	2014.0	2024.5	2026.8	2029.1	2032.6
7.5°	1895.6	1904.9	1911.9	1938.6	1967.6	2004.7	2036.1	2052.3	2054.7	2067.4
10°	1845.7	1857.3	1868.9	1896.8	1938.6	1994.3	2047.7	2087.2	2093.0	2123.1
12.5°	1843.4	1855.0	1870.1	1900.3	1949.0	2008.2	2073.2	2130.1	2140.6	2184.7
15°	1867.8	1881.7	1895.6	1932.8	1985.0	2057.0	2126.6	2197.4	2207.9	2270.6
17.5°	1917.7	1936.3	1946.7	1983.8	2039.6	2119.7	2211.4	2292.6	2301.9	2375.0
20°	2016.4	2038.4	2041.9	2072.1	2126.6	2212.5	2321.6	2422.6	2434.2	2517.8
22.5°	2220.7	2252.0	2224.1	2239.2	2288.0	2373.9	2492.3	2620.0	2636.2	2731.4
25°	2580.5	2624.6	2552.7	2527.1	2548.0	2637.4	2786.0	2947.3	2965.9	3042.5
27.5°	3287.5	3230.6	3121.5	3014.7	2952.0	3003.1	3170.2	3369.9	3393.1	3467.4
30°	4064.0	4014.1	3866.7	3629.9	3481.3	3473.2	3627.6	3850.5	3877.2	3948.0
32.5°	4841.8	4794.2	4634.0	4342.6	4084.9	3957.3	4064.0	4311.3	4325.2	4370.5
35°	5606.8	5558.0	5397.8	5099.5	4782.6	4492.4	4471.5	4750.1	4754.7	4802.3
37.5°	6376.4	6335.8	6165.1	5872.6	5560.3	5159.9	4966.0	5165.7	5171.5	5217.9
40°	6925.5	6942.9	6825.6	6599.3	6331.1	5893.5	5520.9	5607.9	5573.1	5650.9
42.5°	7396.8	7431.6	7329.4	7215.7	7060.1	6674.7	6208.1	6193.0	6137.3	6179.1
45°	7804.2	7833.2	7741.5	7714.8	7711.4	7440.9	6959.1	6868.6	6790.8	6782.7
47.5°	7954.0	8009.7	8049.2	8138.5	8312.7	8198.9	7735.7	7595.3	7508.2	7444.4
50°	8010.9	8070.1	8204.7	8464.7	8876.8	8925.6	8508.8	8351.0	8244.2	8128.1
52.5°	7934.2	8039.9	8221.0	8658.6	9256.4	9508.3	9250.6	9112.5	8990.6	8801.4
55°	7482.7	7588.3	7958.6	8656.3	9445.6	9916.9	9951.7	9890.2	9753.2	9454.9
57.5°	6530.8	6687.5	7273.7	8361.4	9442.1	10268.7	10639.0	10683.1	10529.8	10102.7
60°	5212.1	5424.5	6139.6	7707.9	9150.8	10459.0	11241.4	11462.0	11299.5	10741.1
62.5°	3636.9	3883.0	4559.7	6684.0	8484.5	10322.1	11681.4	12088.8	11965.8	11312.2
65°	2218.3	2297.3	2842.9	5259.7	7351.5	9748.6	11817.2	12427.8	12387.2	11661.6
67.5°	1477.7	1543.9	1700.6	3606.7	5706.6	8602.9	11492.2	12368.6	12380.2	11604.8
70°	890.4	947.2	1049.4	2097.6	3698.4	6809.4	10485.7	11614.0	11681.4	10844.4
72.5°	366.8	405.1	498.0	950.7	1915.4	4321.7	8349.8	9971.5	10128.2	9118.3
75°	207.8	227.5	292.5	477.1	831.2	2014.0	5057.7	7078.7	7309.7	6284.7
77.5°	138.1	147.4	189.2	308.8	467.8	687.2	2161.5	3687.9	4129.1	3432.6
80°	92.9	101.0	130.0	206.6	304.1	294.8	688.4	1366.3	1680.9	1179.4
82.5°	62.7	63.8	92.9	135.8	192.7	142.8	203.1	424.9	534.0	341.3
85°	36.0	34.8	68.5	78.9	85.9	59.2	61.5	127.7	167.2	143.9
87.5°	4.6	7.0	26.7	20.9	11.6	12.8	12.8	22.1	32.5	34.8
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°
2014.0	0°	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0	2014.0
2016.4	2.5°	2016.4	2015.2	2011.7	2008.2	2000.1	1995.5	1997.8	1995.5	1994.3	1995.5
2031.4	5°	2031.4	2028.0	2018.7	2007.1	1990.8	1971.1	1958.3	1939.7	1922.3	1911.9
2072.1	7.5°	2072.1	2068.6	2055.8	2023.3	1971.1	1888.7	1813.2	1747.0	1697.1	1668.1
2137.1	10°	2137.1	2131.3	2111.5	2039.6	1902.6	1722.7	1572.9	1448.7	1367.5	1329.1
2213.7	12.5°	2213.7	2206.7	2171.9	2024.5	1772.6	1491.7	1285.0	1146.9	1071.4	1037.8
2301.9	15°	2304.2	2295.0	2226.5	1952.5	1583.4	1236.3	1047.1	943.8	895.0	864.8
2414.5	17.5°	2416.8	2400.6	2267.1	1844.6	1377.9	1041.3	900.8	823.0	780.1	751.1
2561.9	20°	2563.1	2536.4	2299.6	1715.7	1188.7	918.2	802.1	737.1	704.6	679.1
2770.9	22.5°	2767.4	2729.1	2339.1	1576.4	1055.2	833.5	729.0	681.4	654.7	625.7
3062.3	25°	3020.5	2975.2	2387.8	1447.5	963.5	760.3	675.6	636.1	604.8	571.1
3444.2	27.5°	3374.5	3293.3	2445.9	1341.9	884.5	697.7	626.8	582.7	546.7	518.9
3877.2	30°	3769.2	3635.7	2496.9	1278.1	812.6	639.6	563.0	518.9	485.2	465.5
4266.0	32.5°	4143.0	3961.9	2530.6	1250.2	747.6	573.4	493.4	445.8	420.2	414.4
4646.8	35°	4495.9	4256.7	2527.1	1223.5	689.5	507.3	424.9	376.1	356.4	359.9
5056.6	37.5°	4902.2	4571.3	2502.7	1181.7	641.9	446.9	365.7	322.7	305.3	306.5
5554.5	40°	5374.6	4934.7	2487.6	1102.8	589.7	391.2	316.9	282.1	269.3	264.7
6079.2	42.5°	5878.4	5286.4	2490.0	1013.4	524.7	341.3	283.2	254.2	242.6	239.1
6663.1	45°	6384.5	5621.9	2493.5	920.5	456.2	303.0	258.9	234.5	227.5	222.9
7255.2	47.5°	6860.5	5907.4	2428.4	820.7	388.9	274.0	239.1	222.9	217.1	211.3
7849.5	50°	7303.9	6097.8	2271.7	704.6	335.5	250.7	224.0	212.4	206.6	200.8
8388.1	52.5°	7648.7	6128.0	2012.9	585.1	298.3	233.3	214.8	204.3	197.3	191.5
8823.4	55°	7801.9	5938.8	1644.9	473.6	269.3	218.2	205.5	195.0	186.9	181.1
9165.9	57.5°	7762.4	5540.6	1282.7	380.8	241.5	203.1	193.9	186.9	177.6	168.3
9443.3	60°	7568.6	5007.8	967.0	316.9	215.9	186.9	181.1	175.3	162.5	148.6
9550.1	62.5°	7233.1	4338.0	689.5	262.3	188.1	168.3	166.0	161.4	142.8	117.2
9392.2	65°	6720.0	3524.3	464.3	218.2	161.4	147.4	148.6	140.5	116.1	87.1
8814.1	67.5°	5970.1	2577.0	297.2	178.8	134.7	123.0	124.2	119.6	98.7	74.3
7718.3	70°	5014.8	1706.4	193.9	135.8	108.0	95.2	102.2	103.3	83.6	60.4
5923.7	72.5°	3676.3	1007.6	135.8	101.0	78.9	66.2	83.6	85.9	67.3	45.3
3563.7	75°	2095.3	478.3	102.2	73.1	48.8	46.4	65.0	65.0	46.4	30.2
1542.7	77.5°	879.9	199.7	72.0	47.6	27.9	26.7	44.1	40.6	23.2	13.9
376.1	80°	254.2	89.4	38.3	23.2	11.6	10.4	17.4	12.8	5.8	2.3
142.8	82.5°	99.8	39.5	15.1	9.3	4.6	4.6	2.3	0.0	0.0	0.0
81.3	85°	59.2	16.3	7.0	3.5	1.2	0.0	0.0	0.0	0.0	0.0
17.4	87.5°	15.1	3.5	2.3	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

(END O

<u>180°</u>
2014.0
2000.1
1914.2
1669.3
1325.7
1034.3
866.0
748.7
674.4
621.0
567.6
513.1
462.0
417.9
359.9
311.1
263.5
238.0
222.9
211.3
200.8
190.4
179.9
167.2
146.3
114.9
84.7
70.8
58.0
43.0
27.9
13.9
2.3
0.0
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