

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: P950746

Luminaire Tested: **GALN-SB5A-835-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950746  
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-SB5A-835-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

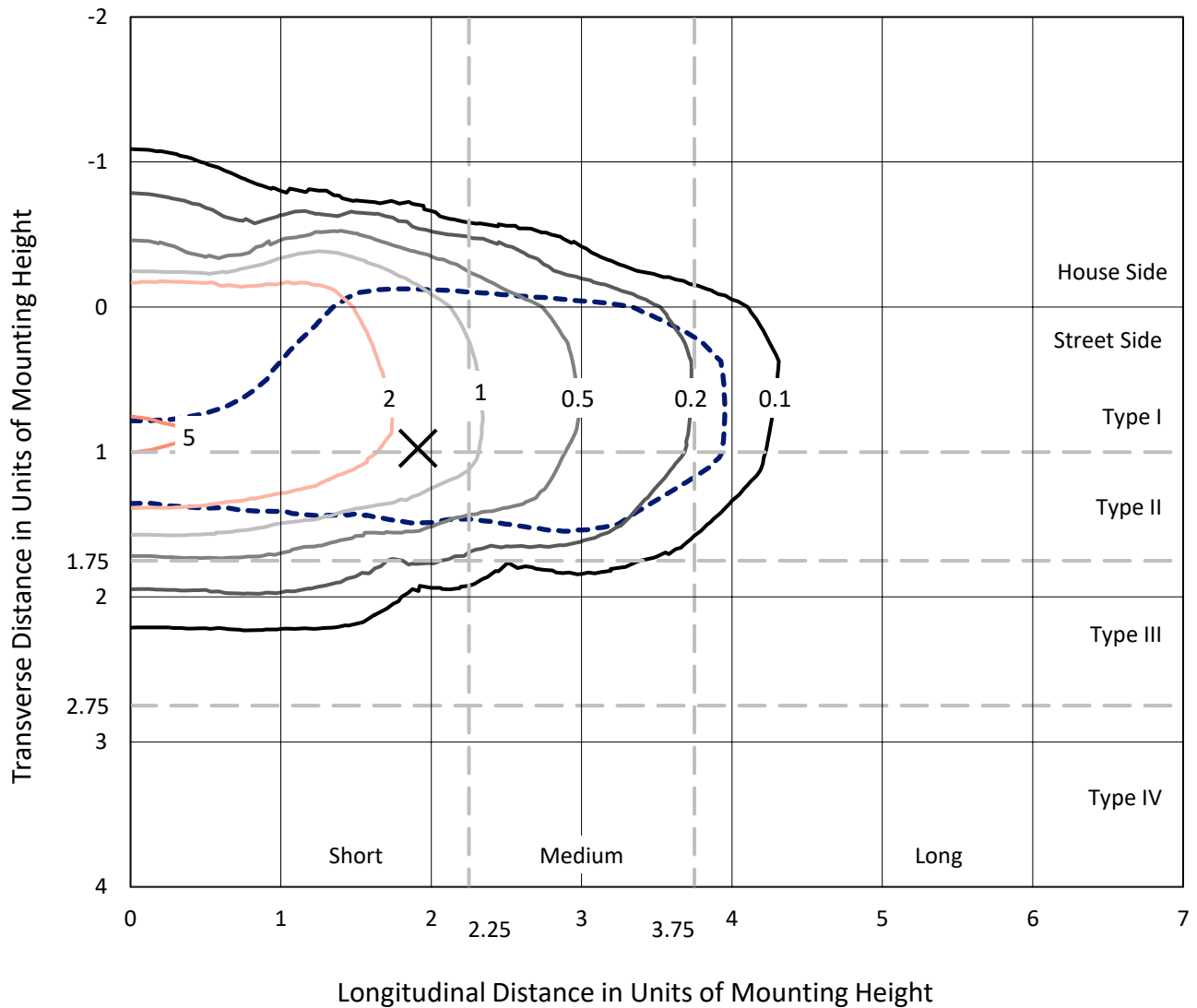
Lumens per Lamp: N/A  
Luminaire Lumens: 16063 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

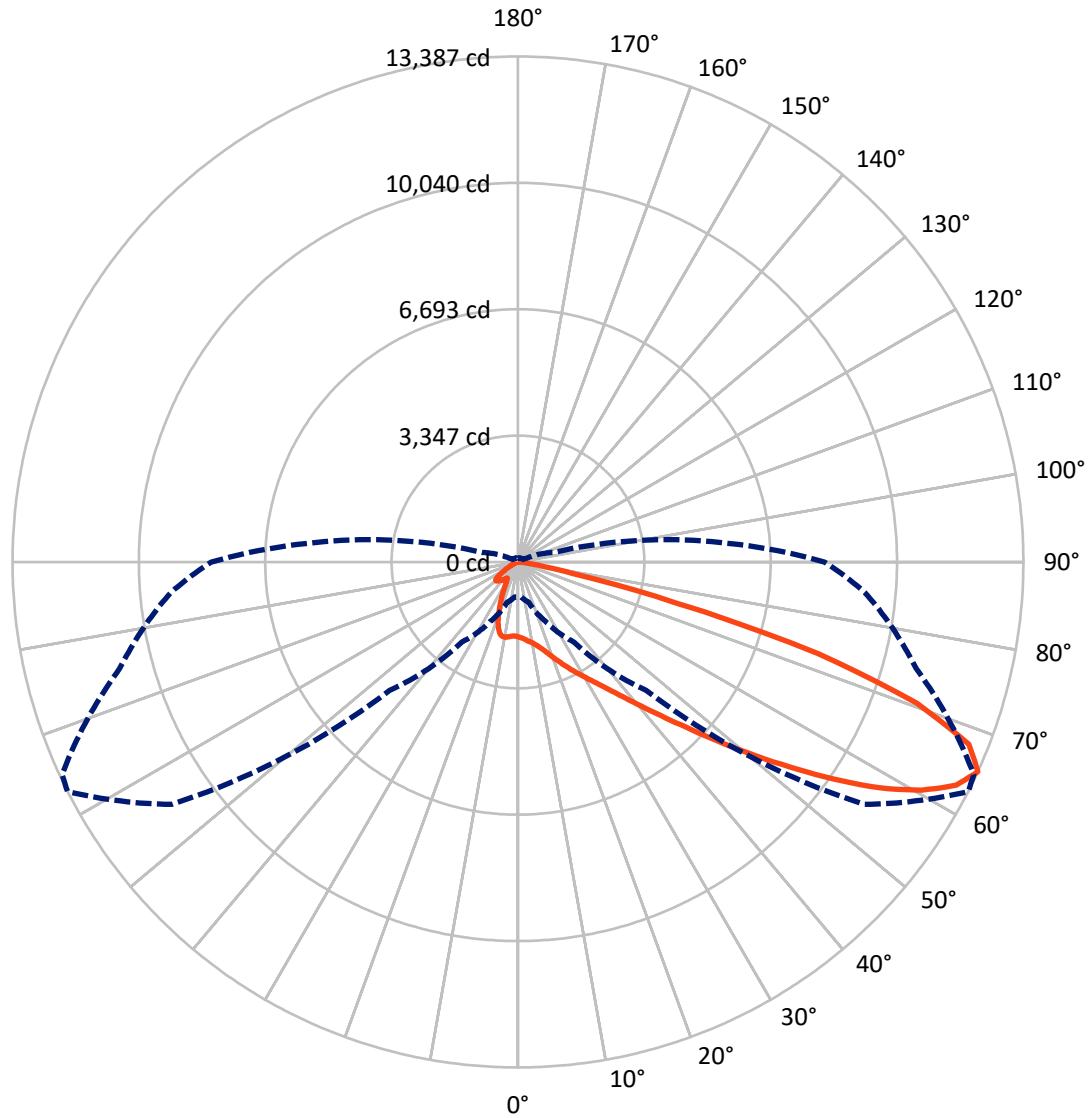
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	2361.1	0.0	2361.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13701.9	0.0	13701.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	16063.0	0.0	16063.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.8	1.2
10°-20°	518.3	3.2
20°-30°	902.4	5.6
30°-40°	1626.5	10.1
40°-50°	3225.9	20.1
50°-60°	4394.3	27.4
60°-70°	3507.5	21.8
70°-80°	1587.2	9.9
80°-90°	114.1	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°	16063.0	100.0
0°-180°	16063.0	100.0

**Coefficient of Utilization**



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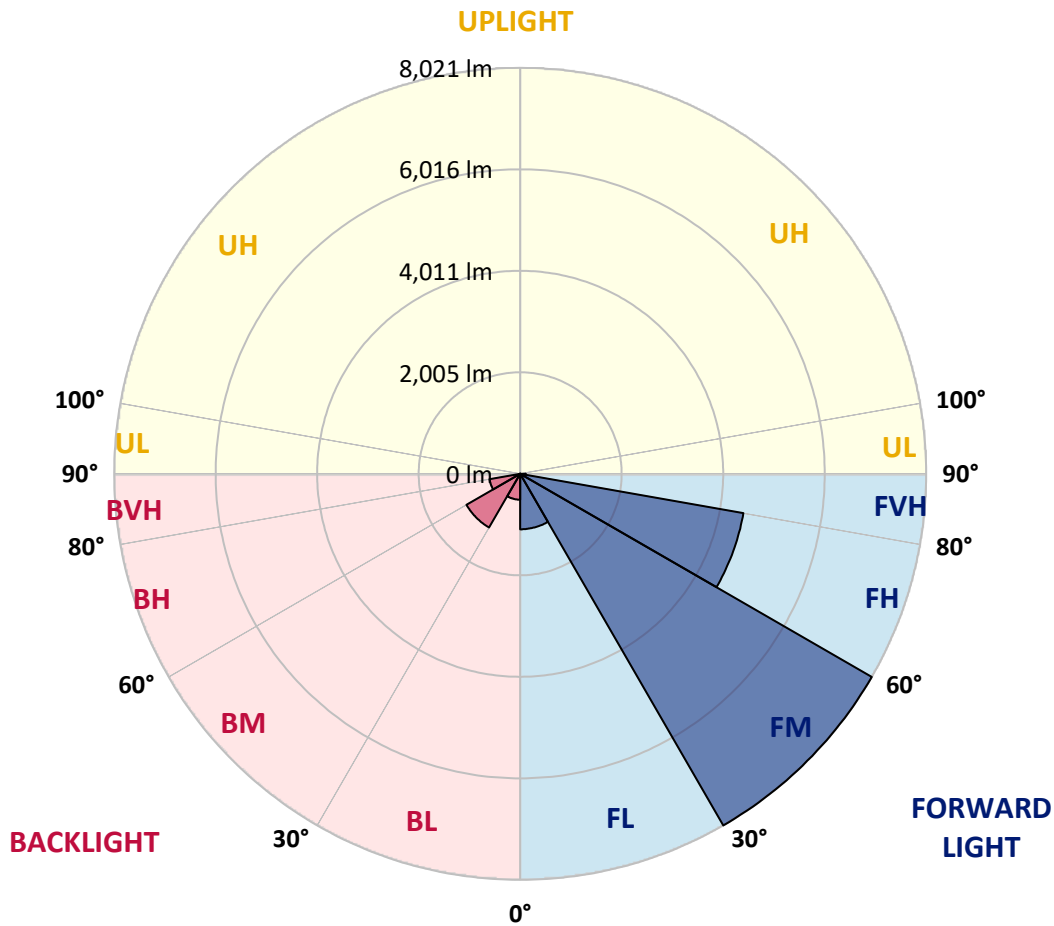
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.5	6.8			
FM (30°-60°)	8021.5	49.9			
FH (60°-80°)	4478.3	27.9			G2/5000
FVH (80°-90°)	105.6	0.7			G2/225
BL (0°-30°)	511.0	3.2	B2/1000		
BM (30°-60°)	1225.3	7.6	B2/2500		
BH (60°-80°)	616.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.5	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°	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5
2.5°	2028.9	2023.4	2031.1	2027.8	2025.6	2021.2	2018.9	2016.7	2012.3	2009.0
5°	2034.4	2031.1	2038.8	2045.5	2052.1	2058.7	2062.0	2066.5	2062.0	2053.2
7.5°	1988.0	1985.8	2002.4	2022.3	2052.1	2077.5	2105.1	2120.6	2121.7	2118.4
10°	1984.7	1979.2	1995.7	2020.0	2058.7	2104.0	2152.7	2185.8	2190.2	2204.6
12.5°	2036.6	2031.1	2054.3	2080.8	2120.6	2168.1	2227.8	2274.2	2280.8	2300.7
15°	2123.9	2116.2	2142.7	2177.0	2227.8	2281.9	2344.9	2386.9	2392.5	2416.8
17.5°	2225.6	2217.9	2248.8	2285.3	2340.5	2414.6	2487.5	2533.9	2540.5	2556.0
20°	2356.0	2346.0	2370.4	2403.5	2462.1	2550.5	2637.8	2704.1	2703.0	2703.0
22.5°	2507.4	2491.9	2512.9	2539.4	2594.7	2701.9	2817.9	2896.4	2896.4	2865.4
25°	2669.8	2654.4	2677.6	2701.9	2750.5	2872.1	3008.0	3105.2	3109.6	3056.6
27.5°	2873.2	2853.3	2870.9	2899.7	2928.4	3052.2	3213.5	3326.2	3328.4	3246.7
30°	3264.3	3208.0	3152.7	3121.8	3135.1	3257.7	3430.1	3555.0	3566.0	3453.3
32.5°	3980.4	3969.4	3774.9	3520.7	3388.1	3478.7	3672.1	3822.4	3829.0	3684.3
35°	5093.2	5080.0	4767.2	4283.2	3851.1	3774.9	3966.1	4144.0	4139.6	3976.0
37.5°	6421.5	6409.3	5997.2	5349.6	4650.1	4222.4	4345.1	4531.9	4559.5	4345.1
40°	7556.4	7511.1	7250.3	6625.9	5711.0	4965.0	4884.4	5008.1	5036.9	4782.7
42.5°	8416.1	8377.5	8244.9	7854.8	6995.0	6063.5	5519.8	5567.3	5599.3	5294.3
45°	8861.5	8852.6	8905.7	8869.2	8303.4	7411.6	6428.1	6230.3	6242.5	5861.2
47.5°	8924.5	8920.0	9162.1	9504.6	9428.4	8932.2	7594.0	7056.9	7013.8	6501.1
50°	8553.2	8544.3	9008.4	9650.5	10179.8	10209.6	8917.8	7988.5	7893.4	7163.0
52.5°	7367.4	7365.2	8127.7	9196.3	10443.9	11328.0	10226.2	9011.8	8852.6	7863.6
55°	5669.0	5709.8	6583.9	7847.0	9962.1	11866.1	11400.9	10147.8	9903.5	8568.6
57.5°	4015.8	4075.5	4939.6	6064.6	8468.1	11547.9	12195.4	11286.0	11023.0	9271.5
60°	2157.1	2210.1	3075.4	4418.0	6299.9	10361.0	12614.3	12273.9	12025.3	9938.9
62.5°	1285.2	1302.9	1660.9	2852.2	4261.1	7915.5	12436.3	13026.4	12822.0	10499.2
65°	922.7	926.0	1106.2	1741.6	2586.9	4809.2	11188.7	13386.7	13323.7	10921.3
67.5°	776.9	774.6	849.8	1157.0	1762.6	2409.0	8575.3	12877.3	13144.7	11188.7
70°	666.4	669.7	758.1	847.6	1325.0	1363.6	4263.3	11211.9	11782.2	11259.5
72.5°	496.2	507.2	589.0	772.4	1000.1	938.2	1471.9	8313.4	9344.4	10608.6
75°	350.3	355.8	414.4	649.8	745.9	682.9	751.4	4297.6	5619.2	8133.2
77.5°	269.6	279.6	313.8	454.2	734.9	479.6	459.7	1487.4	2285.3	4913.1
80°	145.9	163.5	226.5	328.2	516.1	339.3	227.6	592.3	774.6	2297.4
82.5°	75.1	84.0	158.0	236.5	293.9	296.2	112.7	246.4	319.4	709.4
85°	29.8	36.5	106.1	130.4	151.4	145.9	50.8	99.5	114.9	196.7
87.5°	6.6	11.1	38.7	29.8	28.7	30.9	12.2	23.2	22.1	23.2
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°
1982.5	0°	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5	1982.5
1995.7	2.5°	1994.6	1990.2	1978.1	1964.8	1949.3	1940.5	1935.0	1933.9	1926.1	1920.6
2039.9	5°	2027.8	2023.4	2000.2	1972.5	1942.7	1919.5	1897.4	1877.5	1848.8	1843.2
2104.0	7.5°	2094.1	2081.9	2044.4	2006.8	1950.4	1883.0	1801.2	1707.3	1623.3	1597.9
2189.1	10°	2175.9	2159.3	2111.8	2045.5	1920.6	1737.2	1539.3	1355.9	1210.0	1169.2
2289.7	12.5°	2268.7	2254.3	2191.3	2068.7	1795.7	1463.1	1160.3	932.7	791.2	755.9
2396.9	15°	2379.2	2358.2	2270.9	2033.3	1572.5	1111.7	796.7	661.9	611.1	604.5
2519.5	17.5°	2496.3	2462.1	2341.6	1906.2	1271.9	790.1	615.5	576.8	554.7	548.1
2643.3	20°	2603.5	2559.3	2383.6	1713.9	950.4	615.5	551.4	526.0	506.1	498.4
2767.1	22.5°	2710.7	2647.7	2383.6	1452.0	712.8	545.9	506.1	482.9	459.7	449.8
2899.7	25°	2822.3	2738.3	2341.6	1160.3	573.5	500.6	463.0	437.6	417.7	405.6
3025.7	27.5°	2930.6	2814.6	2245.5	884.0	510.5	460.8	423.2	398.9	380.1	371.3
3162.7	30°	3033.4	2889.7	2110.7	670.8	469.7	422.1	386.8	365.8	347.0	338.1
3340.6	32.5°	3172.6	2984.8	1967.0	550.3	434.3	385.7	353.6	333.7	317.2	310.5
3571.6	35°	3366.0	3125.1	1843.2	540.4	404.5	355.8	323.8	305.0	288.4	282.9
3869.9	37.5°	3640.1	3351.6	1778.0	606.7	380.1	329.3	299.5	279.6	264.1	259.7
4249.0	40°	3978.2	3658.9	1813.4	673.0	363.6	306.1	277.4	257.5	244.2	238.7
4684.3	42.5°	4379.4	4037.9	2009.0	723.8	352.5	286.2	256.4	234.3	225.4	223.2
5178.3	45°	4840.2	4454.5	2308.5	778.0	334.8	267.4	235.4	218.8	212.2	211.1
5715.4	47.5°	5364.0	4912.0	2655.5	845.4	317.2	249.7	218.8	207.8	202.2	200.0
6275.6	50°	5883.3	5372.8	3012.4	882.9	302.8	233.2	205.5	196.7	192.3	191.2
6867.9	52.5°	6427.0	5846.9	3300.8	847.6	290.6	219.9	194.5	187.9	183.4	182.3
7413.8	55°	6945.3	6230.3	3350.5	719.4	266.3	206.6	182.3	179.0	173.5	173.5
7967.5	57.5°	7391.7	6422.6	2999.1	528.2	242.0	186.8	170.2	166.9	162.4	161.3
8467.0	60°	7801.7	6367.4	2315.1	355.8	215.5	166.9	154.7	152.5	148.1	142.6
8901.3	62.5°	8032.7	6124.2	1583.6	232.1	189.0	145.9	137.0	135.9	126.0	114.9
9222.8	65°	8120.0	5624.8	987.9	169.1	158.0	124.9	118.2	116.0	101.7	89.5
9405.2	67.5°	8043.7	4802.6	498.4	133.7	124.9	103.9	97.2	97.2	87.3	76.2
9394.1	70°	7738.7	3600.3	210.0	107.2	96.1	79.6	79.6	84.0	74.0	61.9
8906.8	72.5°	7076.8	2422.3	111.6	81.8	71.8	56.4	65.2	68.5	58.6	46.4
7290.1	75°	5625.9	1477.5	77.4	60.8	45.3	39.8	49.7	51.9	39.8	30.9
4998.2	77.5°	3847.8	848.7	51.9	38.7	28.7	23.2	34.3	32.0	21.0	14.4
1927.2	80°	1689.6	353.6	29.8	17.7	11.1	8.8	12.2	8.8	6.6	4.4
264.1	82.5°	197.8	82.9	11.1	6.6	4.4	2.2	1.1	0.0	0.0	0.0
80.7	85°	40.9	9.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
14.4	87.5°	7.7	2.2	1.1	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>
1982.5
1926.1
1841.0
1585.8
1153.7
745.9
597.8
544.8
494.0
444.2
401.1
371.3
339.3
310.5
282.9
258.6
237.6
223.2
210.0
200.0
191.2
182.3
172.4
160.2
141.4
112.7
88.4
75.1
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46.4
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