

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: P941536

Luminaire Tested: **GALN-SB5A-840-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941536  
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-SB5A-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

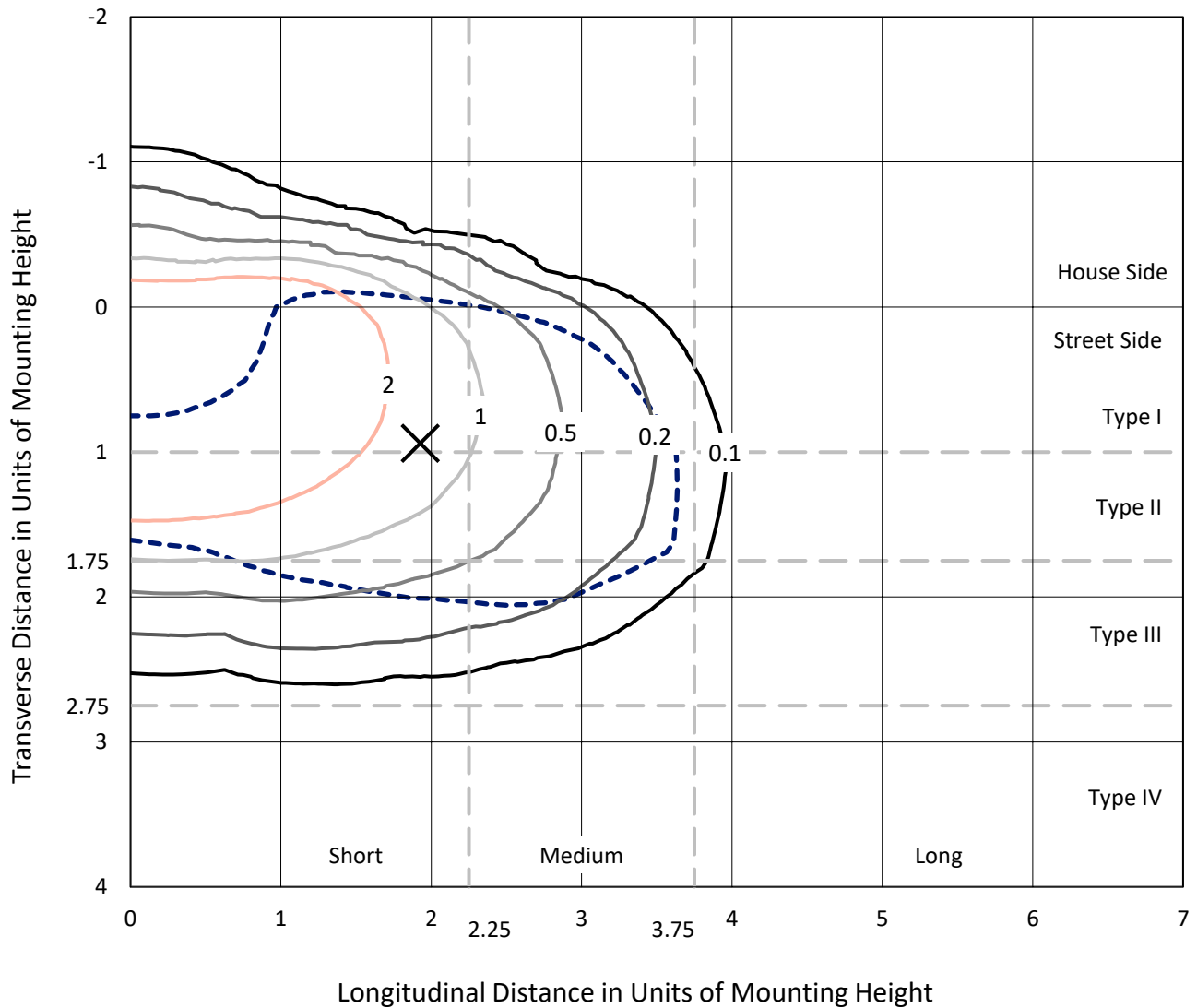
Lumens per Lamp: N/A  
Luminaire Lumens: 16999 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

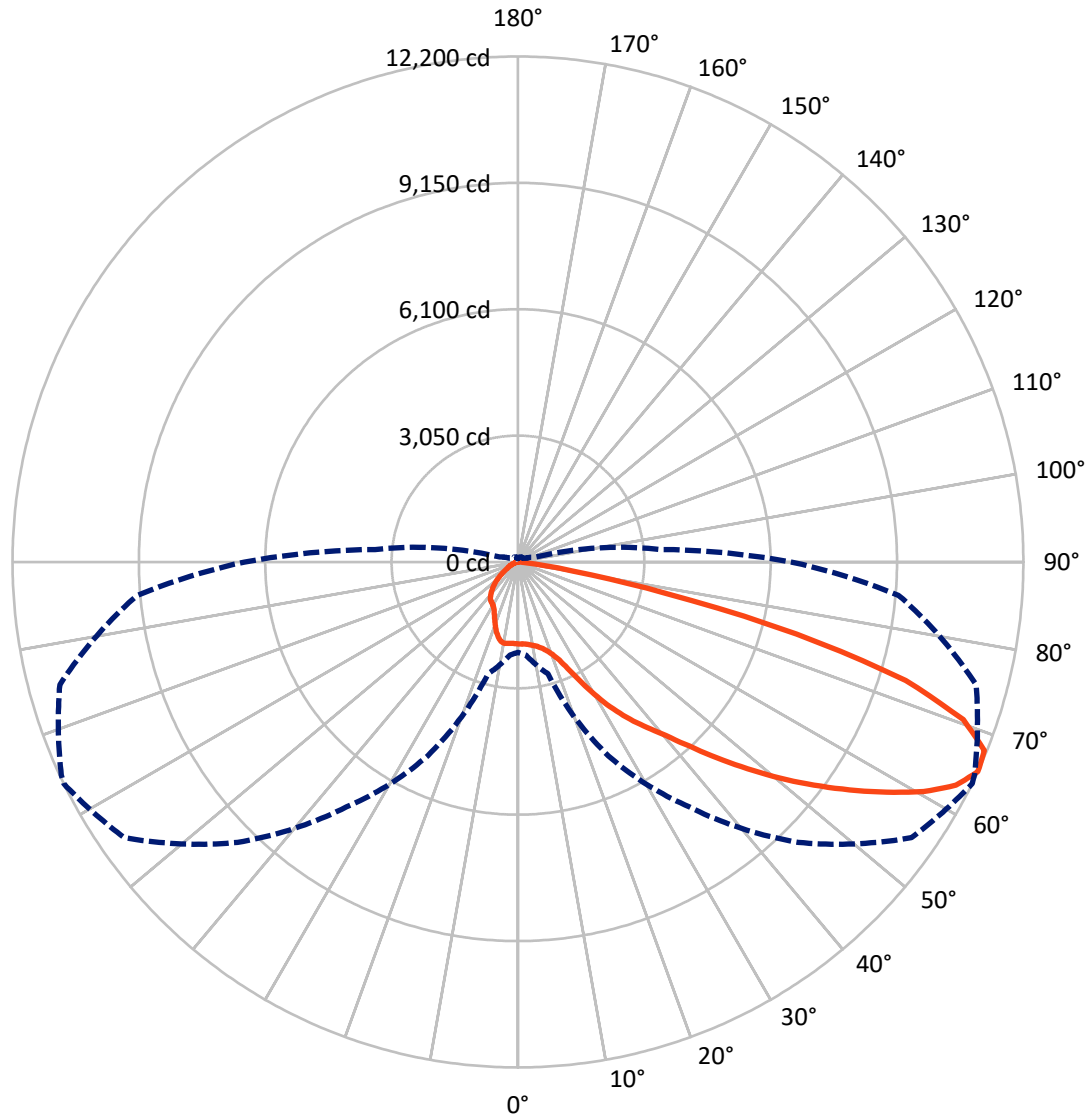
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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
<b>House Side</b>	Lumens	2273.3	0.0	2273.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	14725.7	0.0	14725.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	16999.0	0.0	16999.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.4	1.1
10°-20°	494.8	2.9
20°-30°	937.5	5.5
30°-40°	1897.1	11.2
40°-50°	3231.7	19.0
50°-60°	4394.9	25.9
60°-70°	4127.0	24.3
70°-80°	1653.5	9.7
80°-90°	80.1	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°	16999.0	100.0
0°-180°	16999.0	100.0

**Coefficient of Utilization**



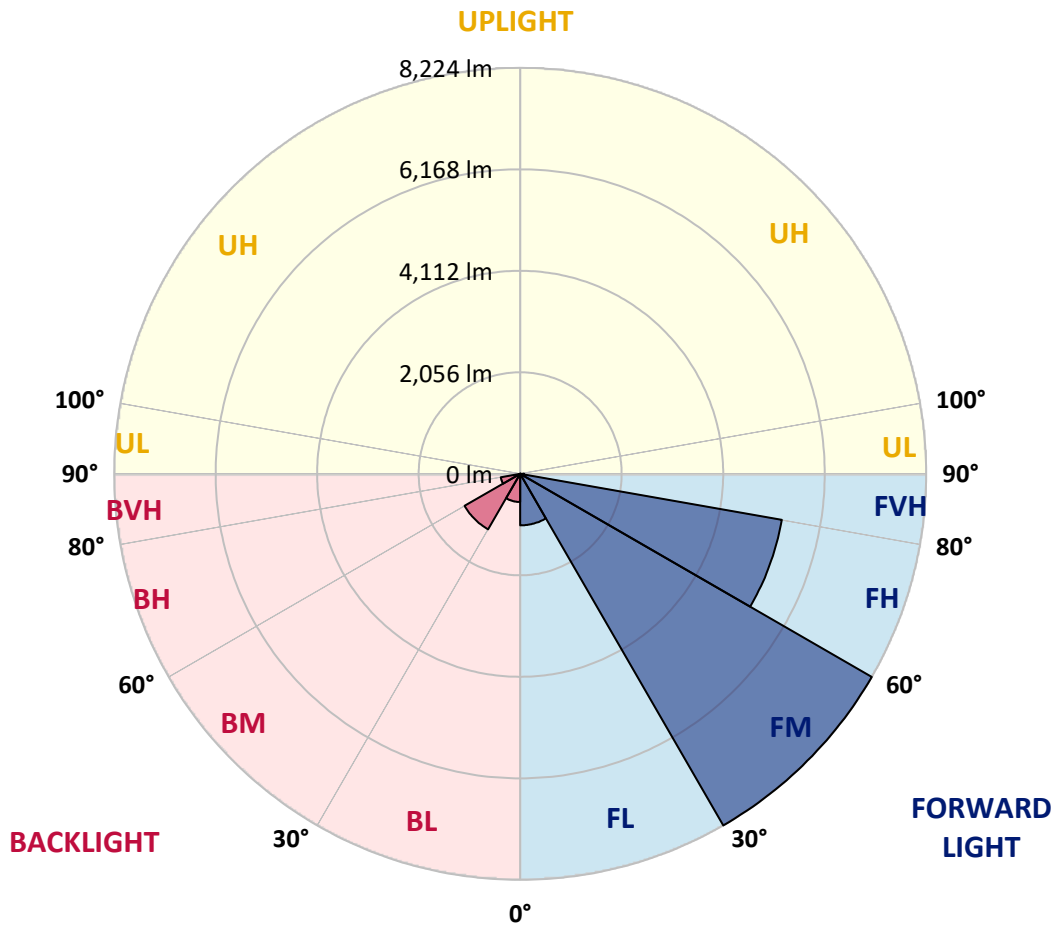
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.9	6.1			
FM (30°-60°)	8224.1	48.4			
FH (60°-80°)	5381.5	31.7			G3/7500
FVH (80°-90°)	76.2	0.4			G1/100
BL (0°-30°)	570.8	3.4	B2/1000		
BM (30°-60°)	1299.6	7.6	B2/2500		
BH (60°-80°)	399.0	2.3	B1/500		G1/500
BVH (80°-90°)	3.9	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°	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2
2.5°	1970.3	1984.0	1980.6	1977.2	1976.0	1978.3	1979.4	1978.3	1978.3	1978.3
5°	1932.7	1944.1	1944.1	1952.1	1963.5	1977.2	1987.4	1989.7	1992.0	1995.4
7.5°	1860.9	1870.0	1876.9	1903.1	1931.6	1968.0	1998.8	2014.8	2017.0	2029.6
10°	1811.9	1823.3	1834.7	1862.1	1903.1	1957.8	2010.2	2049.0	2054.7	2084.3
12.5°	1809.6	1821.0	1835.9	1865.5	1913.3	1971.5	2035.3	2091.1	2101.4	2144.7
15°	1833.6	1847.2	1860.9	1897.4	1948.7	2019.3	2087.7	2157.2	2167.5	2229.0
17.5°	1882.6	1900.8	1911.1	1947.5	2002.2	2080.9	2170.9	2250.7	2259.8	2331.6
20°	1979.4	2001.1	2004.5	2034.1	2087.7	2172.0	2279.1	2378.3	2389.7	2471.7
22.5°	2180.0	2210.8	2183.4	2198.2	2246.1	2330.4	2446.7	2572.0	2588.0	2681.4
25°	2533.3	2576.6	2505.9	2480.9	2501.4	2589.1	2735.0	2893.4	2911.6	2986.8
27.5°	3227.3	3171.4	3064.3	2959.5	2897.9	2948.1	3112.2	3308.2	3331.0	3403.9
30°	3989.6	3940.6	3795.9	3563.4	3417.6	3409.6	3561.2	3780.0	3806.2	3875.7
32.5°	4753.2	4706.4	4549.2	4263.1	4010.2	3884.8	3989.6	4232.4	4246.1	4290.5
35°	5504.1	5456.3	5299.0	5006.1	4695.0	4410.1	4389.6	4663.1	4667.7	4714.4
37.5°	6259.7	6219.8	6052.3	5765.1	5458.6	5065.4	4875.1	5071.1	5076.8	5122.4
40°	6798.7	6815.8	6700.7	6478.5	6215.2	5785.6	5419.8	5505.3	5471.1	5547.4
42.5°	7261.4	7295.6	7195.3	7083.6	6930.9	6552.5	6094.4	6079.6	6024.9	6066.0
45°	7661.4	7689.8	7599.8	7573.6	7570.2	7304.7	6831.7	6742.9	6666.5	6658.5
47.5°	7808.4	7863.1	7901.8	7989.6	8160.5	8048.8	7594.1	7456.2	7370.8	7308.1
50°	7864.2	7922.3	8054.5	8309.8	8714.3	8762.2	8353.1	8198.1	8093.3	7979.3
52.5°	7789.0	7892.7	8070.5	8500.1	9087.0	9334.2	9081.3	8945.7	8826.0	8640.2
55°	7345.7	7449.4	7812.9	8497.8	9272.7	9735.4	9769.6	9709.2	9574.7	9281.8
57.5°	6411.2	6565.1	7140.6	8208.3	9269.3	10080.7	10444.2	10487.5	10337.1	9917.7
60°	5116.7	5325.2	6027.2	7566.8	8983.3	10267.6	11035.6	11252.1	11092.6	10544.5
62.5°	3570.3	3811.9	4476.2	6561.7	8329.1	10133.1	11467.5	11867.5	11746.7	11105.1
65°	2177.7	2255.2	2790.8	5163.4	7216.9	9570.1	11600.9	12200.3	12160.4	11448.2
67.5°	1450.7	1515.6	1669.5	3540.7	5602.1	8445.4	11281.8	12142.2	12153.6	11392.3
70°	874.1	929.9	1030.2	2059.2	3630.7	6684.7	10293.8	11401.4	11467.5	10645.9
72.5°	360.1	397.7	488.9	933.3	1880.3	4242.6	8197.0	9788.9	9942.8	8951.4
75°	204.0	223.4	287.2	468.4	815.9	1977.2	4965.1	6949.1	7175.9	6169.7
77.5°	135.6	144.7	185.8	303.1	459.2	674.6	2121.9	3620.4	4053.5	3369.7
80°	91.2	99.1	127.6	202.8	298.6	289.5	675.8	1341.3	1650.1	1157.8
82.5°	61.5	62.7	91.2	133.3	189.2	140.2	199.4	417.1	524.2	335.0
85°	35.3	34.2	67.2	77.5	84.3	58.1	60.4	125.4	164.1	141.3
87.5°	4.6	6.8	26.2	20.5	11.4	12.5	12.5	21.7	31.9	34.2
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°
1977.2	0°	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2	1977.2
1979.4	2.5°	1979.4	1978.3	1974.9	1971.5	1963.5	1958.9	1961.2	1958.9	1957.8	1958.9
1994.3	5°	1994.3	1990.8	1981.7	1970.3	1954.4	1935.0	1922.5	1904.2	1887.1	1876.9
2034.1	7.5°	2034.1	2030.7	2018.2	1986.3	1935.0	1854.1	1780.0	1715.1	1666.1	1637.6
2098.0	10°	2098.0	2092.3	2072.9	2002.2	1867.8	1691.1	1544.1	1422.2	1342.4	1304.8
2173.2	12.5°	2173.2	2166.3	2132.1	1987.4	1740.1	1464.4	1261.5	1125.9	1051.8	1018.8
2259.8	15°	2262.1	2252.9	2185.7	1916.8	1554.4	1213.6	1027.9	926.5	878.6	849.0
2370.3	17.5°	2372.6	2356.6	2225.6	1810.8	1352.7	1022.2	884.3	808.0	765.8	737.3
2515.0	20°	2516.2	2490.0	2257.5	1684.3	1166.9	901.4	787.4	723.6	691.7	666.7
2720.2	22.5°	2716.7	2679.1	2296.2	1547.5	1035.9	818.2	715.7	668.9	642.7	614.2
3006.2	25°	2965.2	2920.7	2344.1	1421.0	945.8	746.4	663.2	624.5	593.7	560.7
3381.1	27.5°	3312.7	3233.0	2401.1	1317.3	868.4	684.9	615.4	572.1	536.7	509.4
3806.2	30°	3700.2	3569.1	2451.2	1254.7	797.7	627.9	552.7	509.4	476.3	457.0
4187.9	32.5°	4067.1	3889.4	2484.3	1227.3	733.9	562.9	484.3	437.6	412.5	406.8
4561.7	35°	4413.6	4178.8	2480.9	1201.1	676.9	498.0	417.1	369.2	349.8	353.3
4964.0	37.5°	4812.4	4487.6	2456.9	1160.1	630.2	438.7	359.0	316.8	299.7	300.8
5452.9	40°	5276.2	4844.3	2442.1	1082.6	578.9	384.0	311.1	276.9	264.4	259.8
5967.9	42.5°	5770.8	5189.6	2444.4	994.8	515.1	335.0	278.1	249.6	238.2	234.8
6541.2	45°	6267.7	5519.0	2447.8	903.7	447.9	297.4	254.1	230.2	223.4	218.8
7122.3	47.5°	6734.9	5799.3	2384.0	805.7	381.8	268.9	234.8	218.8	213.1	207.4
7705.8	50°	7170.2	5986.2	2230.1	691.7	329.3	246.1	219.9	208.5	202.8	197.1
8234.6	52.5°	7508.7	6015.8	1976.0	574.3	292.9	229.1	210.8	200.6	193.7	188.0
8661.9	55°	7659.1	5830.1	1614.8	464.9	264.4	214.2	201.7	191.4	183.5	177.8
8998.1	57.5°	7620.3	5439.2	1259.2	373.8	237.0	199.4	190.3	183.5	174.4	165.2
9270.4	60°	7430.0	4916.1	949.3	311.1	212.0	183.5	177.8	172.1	159.5	145.9
9375.3	62.5°	7100.7	4258.6	676.9	257.5	184.6	165.2	163.0	158.4	140.2	115.1
9220.3	65°	6597.0	3459.7	455.8	214.2	158.4	144.7	145.9	137.9	114.0	85.5
8652.8	67.5°	5860.8	2529.9	291.7	175.5	132.2	120.8	121.9	117.4	96.9	72.9
7577.0	70°	4923.0	1675.2	190.3	133.3	106.0	93.4	100.3	101.4	82.0	59.3
5815.2	72.5°	3609.0	989.1	133.3	99.1	77.5	65.0	82.0	84.3	66.1	44.4
3498.5	75°	2056.9	469.5	100.3	71.8	47.9	45.6	63.8	63.8	45.6	29.6
1514.5	77.5°	863.8	196.0	70.7	46.7	27.3	26.2	43.3	39.9	22.8	13.7
369.2	80°	249.6	87.7	37.6	22.8	11.4	10.3	17.1	12.5	5.7	2.3
140.2	82.5°	98.0	38.7	14.8	9.1	4.6	4.6	2.3	0.0	0.0	0.0
79.8	85°	58.1	16.0	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0
17.1	87.5°	14.8	3.4	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>
1977.2
1963.5
1879.2
1638.7
1301.4
1015.4
850.1
735.0
662.1
609.7
557.3
503.7
453.6
410.2
353.3
305.4
258.7
233.6
218.8
207.4
197.1
186.9
176.6
164.1
143.6
112.8
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