

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: P941506

Luminaire Tested: **GALN-SB5A-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941506  
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-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

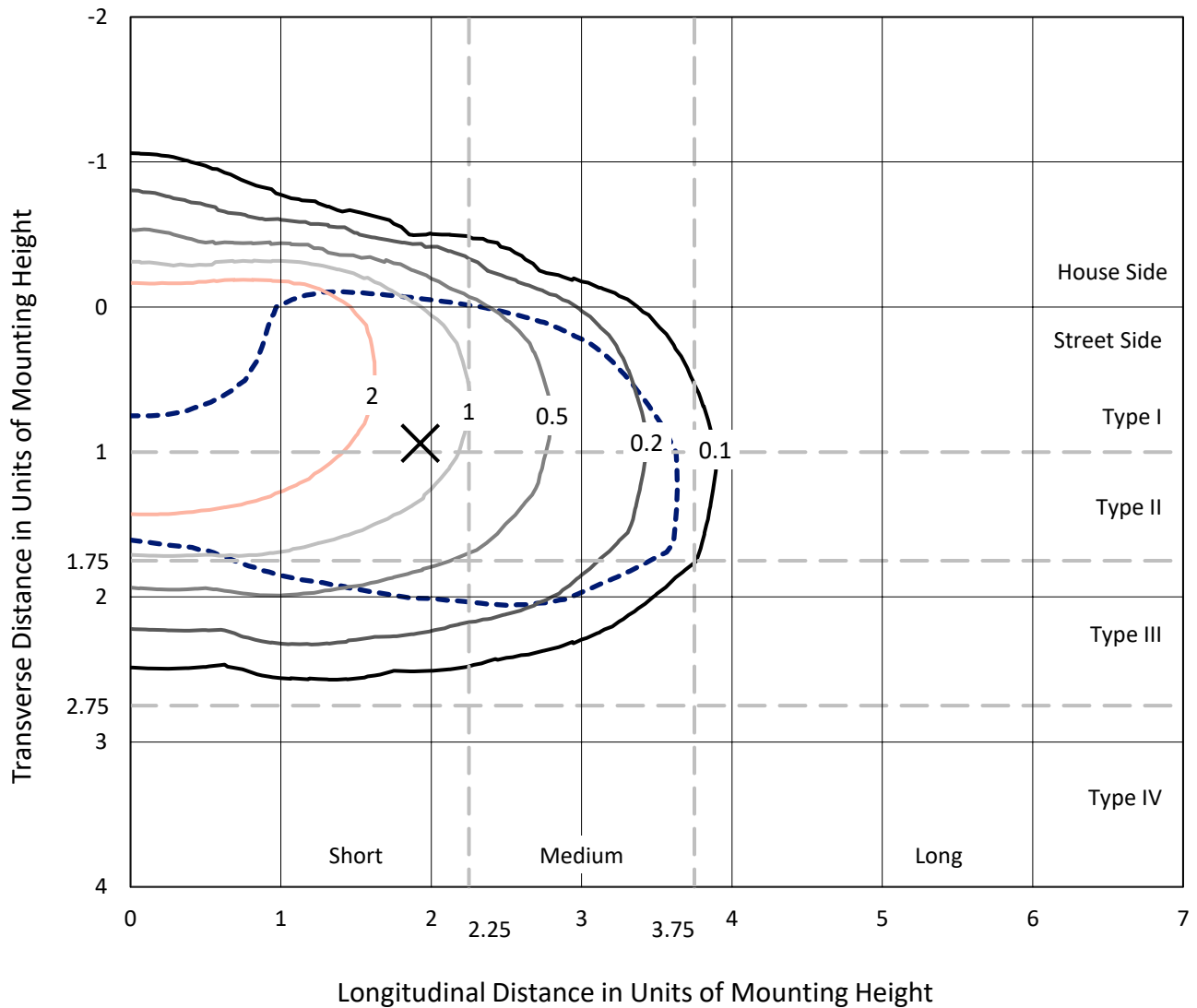
Lumens per Lamp: N/A  
Luminaire Lumens: 15453 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

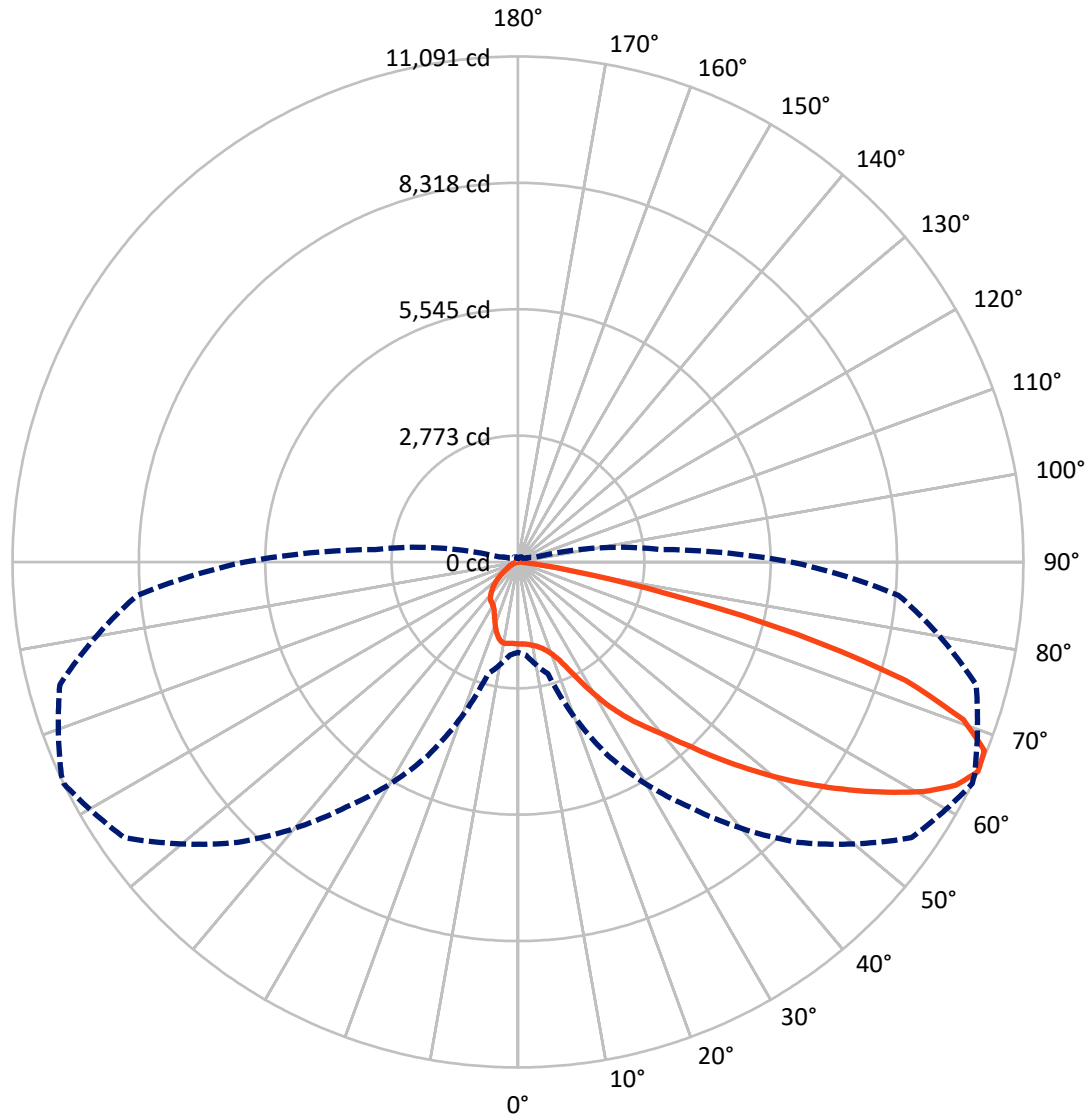
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	2066.5	0.0	2066.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	13386.5	0.0	13386.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	15453.0	0.0	15453.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.8	1.1
10°-20°	449.8	2.9
20°-30°	852.3	5.5
30°-40°	1724.6	11.2
40°-50°	2937.8	19.0
50°-60°	3995.2	25.9
60°-70°	3751.7	24.3
70°-80°	1503.1	9.7
80°-90°	72.8	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°	15453.0	100.0
0°-180°	15453.0	100.0

**Coefficient of Utilization**



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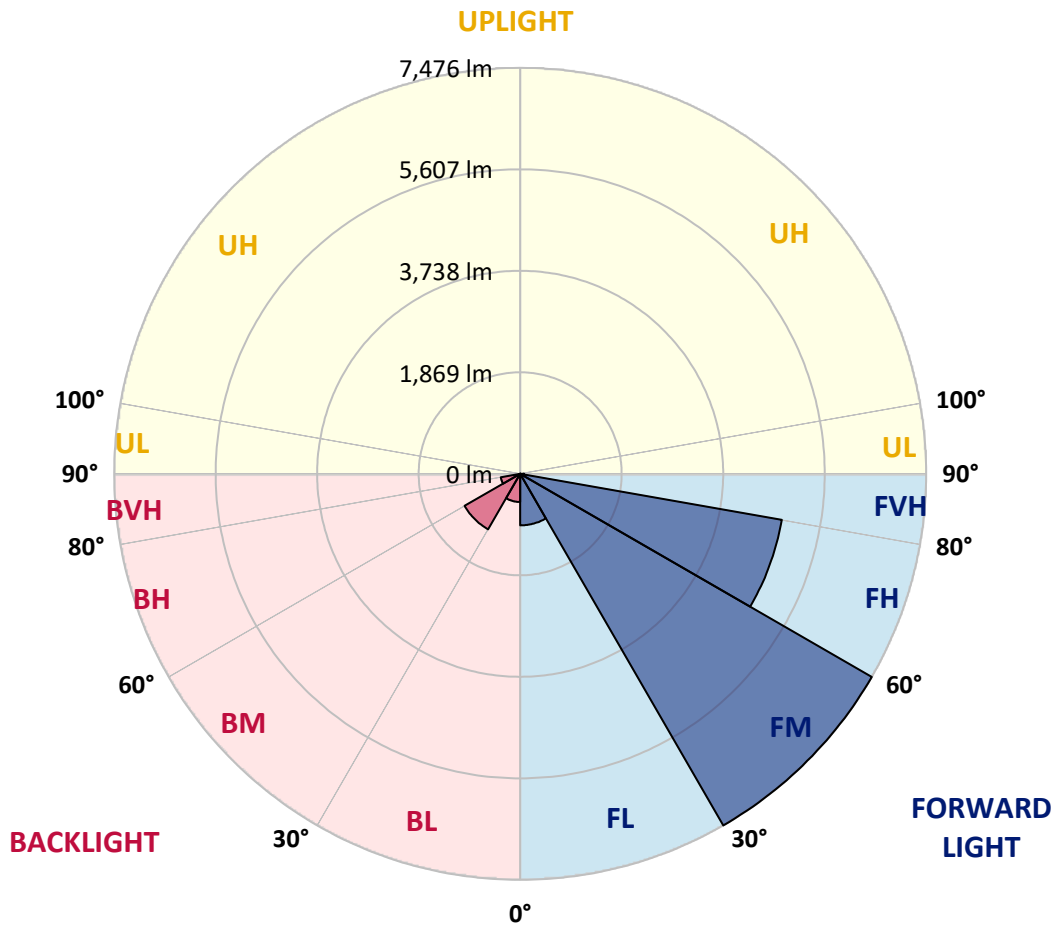
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.0	6.1			
FM (30°-60°)	7476.1	48.4			
FH (60°-80°)	4892.1	31.7			G2/5000
FVH (80°-90°)	69.3	0.4			G1/100
BL (0°-30°)	518.8	3.4	B2/1000		
BM (30°-60°)	1181.4	7.6	B2/2500		
BH (60°-80°)	362.7	2.3	B1/500		G1/500
BVH (80°-90°)	3.6	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-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3
2.5°	1791.1	1803.6	1800.5	1797.3	1796.3	1798.4	1799.4	1798.4	1798.4	1798.4
5°	1756.9	1767.3	1767.3	1774.6	1784.9	1797.3	1806.7	1808.7	1810.8	1813.9
7.5°	1691.7	1700.0	1706.2	1730.0	1755.9	1789.1	1817.0	1831.5	1833.6	1845.0
10°	1647.1	1657.5	1667.9	1692.7	1730.0	1779.7	1827.4	1862.6	1867.8	1894.7
12.5°	1645.1	1655.4	1668.9	1695.8	1739.3	1792.2	1850.2	1900.9	1910.3	1949.6
15°	1666.8	1679.2	1691.7	1724.8	1771.4	1835.7	1897.8	1961.0	1970.3	2026.3
17.5°	1711.4	1727.9	1737.3	1770.4	1820.1	1891.6	1973.5	2046.0	2054.3	2119.5
20°	1799.4	1819.1	1822.2	1849.1	1897.8	1974.5	2071.9	2162.0	2172.4	2246.9
22.5°	1981.7	2009.7	1984.8	1998.3	2041.8	2118.5	2224.1	2338.1	2352.6	2437.6
25°	2302.9	2342.2	2278.0	2255.2	2273.9	2353.6	2486.2	2630.2	2646.8	2715.2
27.5°	2933.8	2883.0	2785.6	2690.3	2634.4	2680.0	2829.1	3007.3	3028.0	3094.3
30°	3626.8	3582.3	3450.7	3239.4	3106.8	3099.5	3237.3	3436.2	3460.0	3523.2
32.5°	4320.9	4278.4	4135.4	3875.4	3645.4	3531.5	3626.8	3847.5	3859.9	3900.3
35°	5003.6	4960.0	4817.1	4550.9	4268.0	4009.1	3990.4	4239.0	4243.2	4285.7
37.5°	5690.4	5654.1	5501.8	5240.8	4962.1	4604.7	4431.7	4609.9	4615.1	4656.5
40°	6180.4	6195.9	6091.3	5889.3	5650.0	5259.4	4926.9	5004.6	4973.5	5042.9
42.5°	6601.0	6632.0	6540.9	6439.4	6300.5	5956.6	5540.2	5526.7	5477.0	5514.3
45°	6964.6	6990.5	6908.6	6884.8	6881.7	6640.3	6210.4	6129.6	6060.2	6053.0
47.5°	7098.2	7147.9	7183.2	7262.9	7418.3	7316.8	6903.5	6778.1	6700.4	6643.4
50°	7149.0	7201.8	7322.0	7554.0	7921.8	7965.3	7593.4	7452.5	7357.2	7253.6
52.5°	7080.6	7174.9	7336.5	7727.0	8260.5	8485.3	8255.4	8132.1	8023.3	7854.4
55°	6677.6	6771.9	7102.4	7725.0	8429.4	8850.0	8881.1	8826.2	8703.9	8437.7
57.5°	5828.2	5968.0	6491.2	7461.8	8426.3	9163.9	9494.3	9533.7	9397.0	9015.7
60°	4651.3	4840.9	5479.1	6878.6	8166.3	9333.8	10032.0	10228.8	10083.8	9585.5
62.5°	3245.6	3465.2	4069.1	5964.9	7571.6	9211.5	10424.6	10788.2	10678.4	10095.2
65°	1979.7	2050.1	2537.0	4693.8	6560.6	8699.8	10545.8	11090.7	11054.4	10407.0
67.5°	1318.7	1377.8	1517.6	3218.6	5092.6	7677.3	10255.7	11037.9	11048.2	10356.2
70°	794.6	845.3	936.5	1871.9	3300.5	6076.8	9357.6	10364.5	10424.6	9677.7
72.5°	327.4	361.5	444.4	848.4	1709.3	3856.8	7451.5	8898.7	9038.5	8137.3
75°	185.4	203.0	261.1	425.8	741.7	1797.3	4513.6	6317.1	6523.3	5608.5
77.5°	123.3	131.6	168.9	275.6	417.5	613.3	1928.9	3291.2	3684.8	3063.3
80°	82.9	90.1	116.0	184.4	271.4	263.1	614.3	1219.3	1500.0	1052.5
82.5°	55.9	57.0	82.9	121.2	172.0	127.4	181.3	379.2	476.5	304.6
85°	32.1	31.1	61.1	70.4	76.7	52.8	54.9	114.0	149.2	128.5
87.5°	4.1	6.2	23.8	18.6	10.4	11.4	11.4	19.7	29.0	31.1
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°
1797.3	0°	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3	1797.3
1799.4	2.5°	1799.4	1798.4	1795.3	1792.2	1784.9	1780.8	1782.8	1780.8	1779.7	1780.8
1812.9	5°	1812.9	1809.8	1801.5	1791.1	1776.6	1759.0	1747.6	1731.0	1715.5	1706.2
1849.1	7.5°	1849.1	1846.0	1834.6	1805.6	1759.0	1685.5	1618.1	1559.1	1514.5	1488.6
1907.2	10°	1907.2	1902.0	1884.4	1820.1	1697.9	1537.3	1403.7	1292.8	1220.3	1186.1
1975.5	12.5°	1975.5	1969.3	1938.2	1806.7	1581.9	1331.2	1146.8	1023.5	956.2	926.1
2054.3	15°	2056.3	2048.0	1986.9	1742.4	1413.0	1103.3	934.4	842.2	798.7	771.8
2154.7	17.5°	2156.8	2142.3	2023.2	1646.1	1229.7	929.2	803.9	734.5	696.1	670.2
2286.3	20°	2287.3	2263.5	2052.2	1531.1	1060.8	819.4	715.8	657.8	628.8	606.0
2472.8	22.5°	2469.7	2435.5	2087.4	1406.8	941.7	743.8	650.6	608.1	584.3	558.4
2732.8	25°	2695.5	2655.1	2130.9	1291.8	859.8	678.5	602.9	567.7	539.7	509.7
3073.6	27.5°	3011.5	2938.9	2182.7	1197.5	789.4	622.6	559.4	520.0	487.9	463.1
3460.0	30°	3363.7	3244.5	2228.3	1140.6	725.2	570.8	502.4	463.1	433.0	415.4
3807.1	32.5°	3697.2	3535.6	2258.3	1115.7	667.1	511.8	440.3	397.8	375.0	369.8
4146.8	35°	4012.2	3798.8	2255.2	1091.9	615.3	452.7	379.2	335.6	318.0	321.1
4512.5	37.5°	4374.7	4079.5	2233.5	1054.6	572.9	398.8	326.3	288.0	272.5	273.5
4956.9	40°	4796.4	4403.8	2220.0	984.1	526.3	349.1	282.8	251.7	240.3	236.2
5425.2	42.5°	5246.0	4717.6	2222.1	904.4	468.2	304.6	252.8	226.9	216.5	213.4
5946.3	45°	5697.6	5017.0	2225.2	821.5	407.1	270.4	231.0	209.3	203.0	198.9
6474.6	47.5°	6122.4	5271.9	2167.2	732.4	347.0	244.5	213.4	198.9	193.7	188.5
7005.0	50°	6518.1	5441.8	2027.3	628.8	299.4	223.8	199.9	189.6	184.4	179.2
7485.7	52.5°	6825.8	5468.7	1796.3	522.1	266.2	208.2	191.6	182.3	176.1	170.9
7874.1	55°	6962.5	5299.8	1467.9	422.7	240.3	194.8	183.4	174.0	166.8	161.6
8179.7	57.5°	6927.3	4944.5	1144.7	339.8	215.5	181.3	173.0	166.8	158.5	150.2
8427.3	60°	6754.3	4469.0	862.9	282.8	192.7	166.8	161.6	156.4	145.0	132.6
8522.6	62.5°	6454.9	3871.3	615.3	234.1	167.8	150.2	148.1	144.0	127.4	104.6
8381.7	65°	5997.0	3145.1	414.4	194.8	144.0	131.6	132.6	125.3	103.6	77.7
7865.8	67.5°	5327.8	2299.8	265.2	159.5	120.2	109.8	110.8	106.7	88.1	66.3
6887.9	70°	4475.2	1522.8	173.0	121.2	96.3	84.9	91.2	92.2	74.6	53.9
5286.4	72.5°	3280.8	899.2	121.2	90.1	70.4	59.0	74.6	76.7	60.1	40.4
3180.3	75°	1869.9	426.8	91.2	65.3	43.5	41.4	58.0	58.0	41.4	26.9
1376.8	77.5°	785.2	178.2	64.2	42.5	24.9	23.8	39.4	36.3	20.7	12.4
335.6	80°	226.9	79.8	34.2	20.7	10.4	9.3	15.5	11.4	5.2	2.1
127.4	82.5°	89.1	35.2	13.5	8.3	4.1	4.1	2.1	0.0	0.0	0.0
72.5	85°	52.8	14.5	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
15.5	87.5°	13.5	3.1	2.1	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

180°  
1797.3  
1784.9  
1708.3  
1489.7  
1183.0  
923.0  
772.8  
668.2  
601.9  
554.2  
506.6  
457.9  
412.3  
372.9  
321.1  
277.6  
235.2  
212.4  
198.9  
188.5  
179.2  
169.9  
160.6  
149.2  
130.5  
102.6  
75.6  
63.2  
51.8  
38.3  
24.9  
12.4  
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