

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: P941218

Luminaire Tested: **GALN-SB4C-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

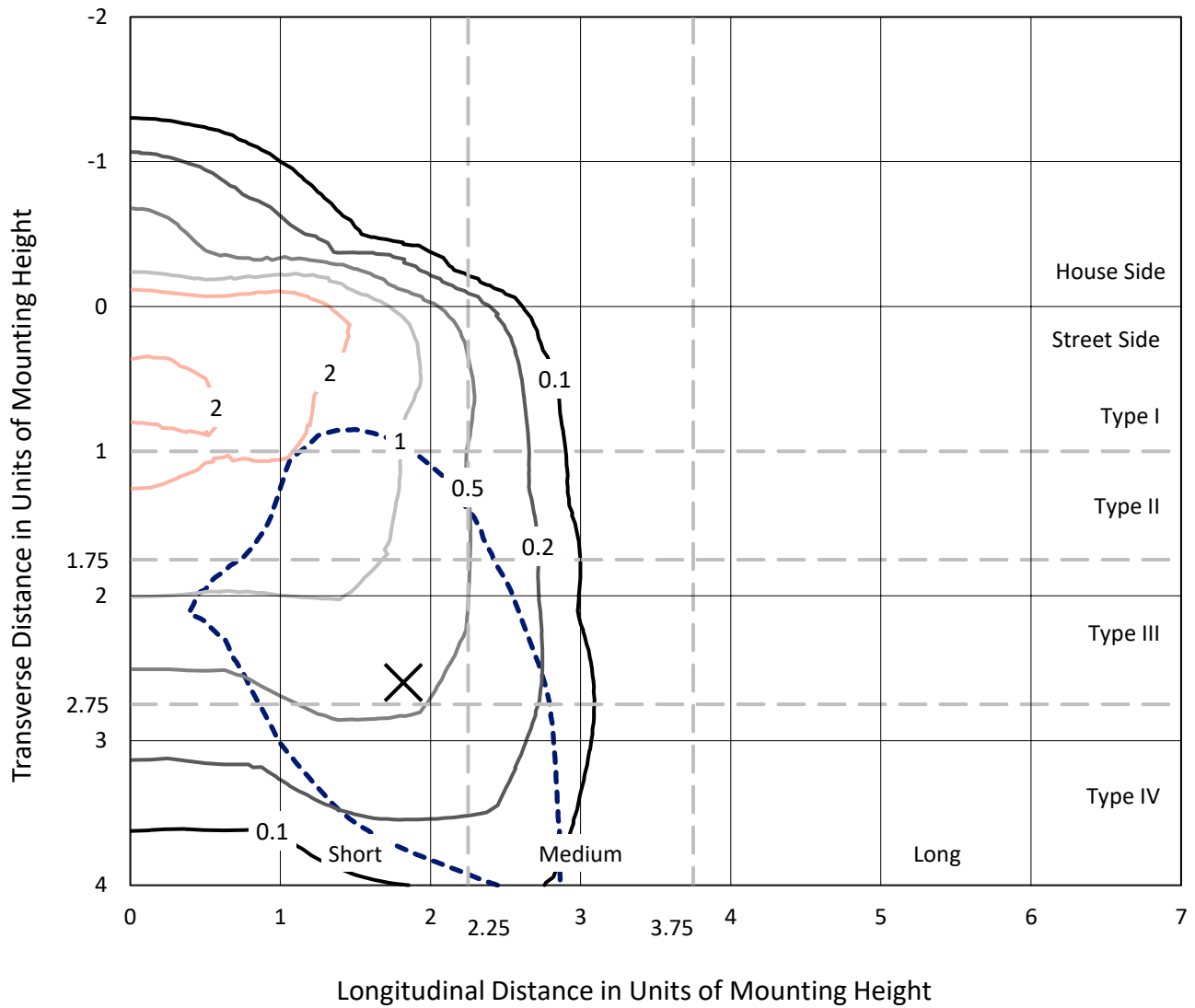
Lumens per Lamp: N/A  
Luminaire Lumens: 13833 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

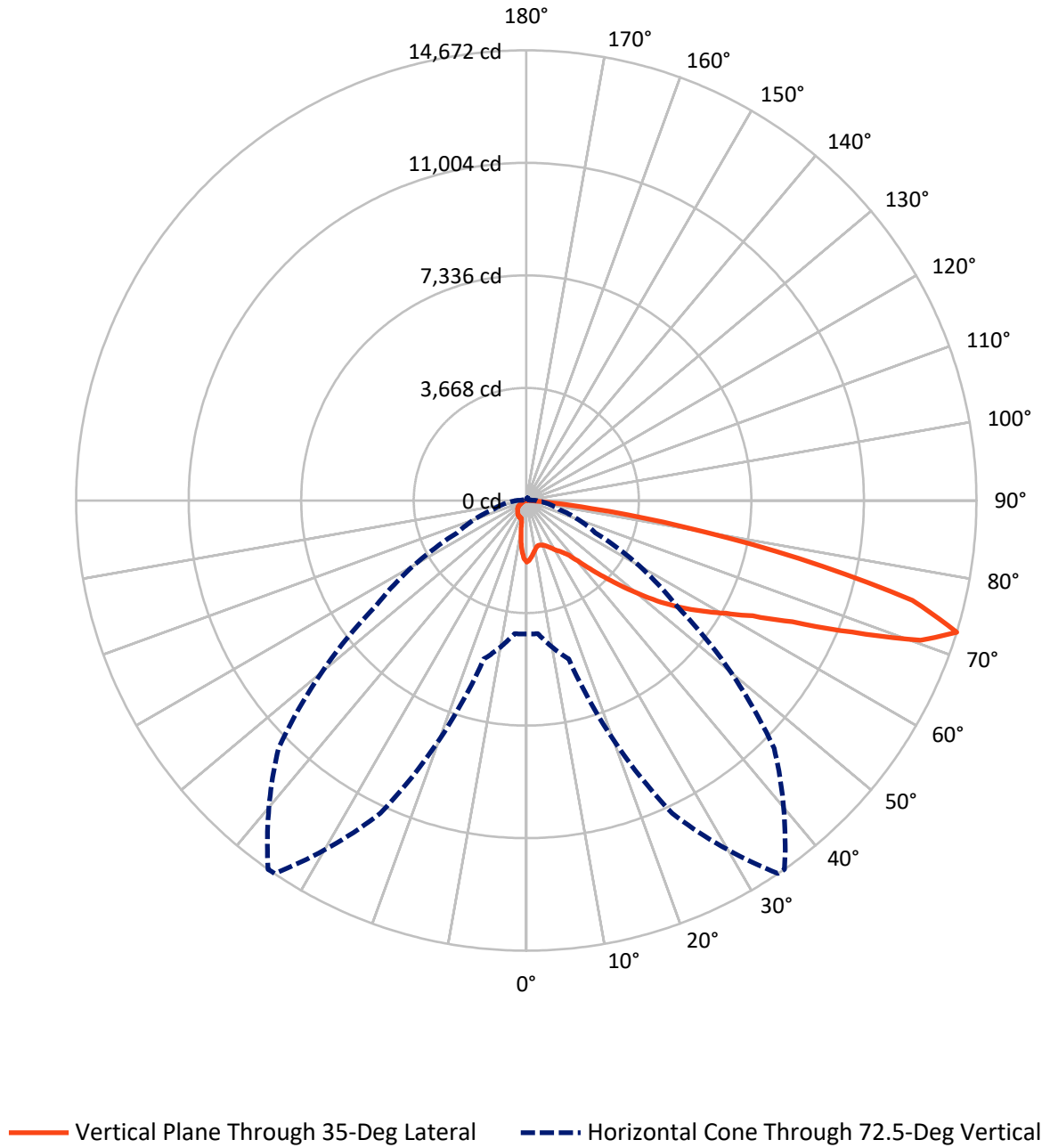
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1556.8	0.0	1556.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	12276.2	0.0	12276.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	13833.0	0.0	13833.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	1.2
10°-20°	385.4	2.8
20°-30°	626.1	4.5
30°-40°	1044.6	7.6
40°-50°	1976.4	14.3
50°-60°	3140.5	22.7
60°-70°	3885.1	28.1
70°-80°	2415.0	17.5
80°-90°	195.2	1.4
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°	13833.0	100.0
0°-180°	13833.0	100.0

**Coefficient of Utilization**



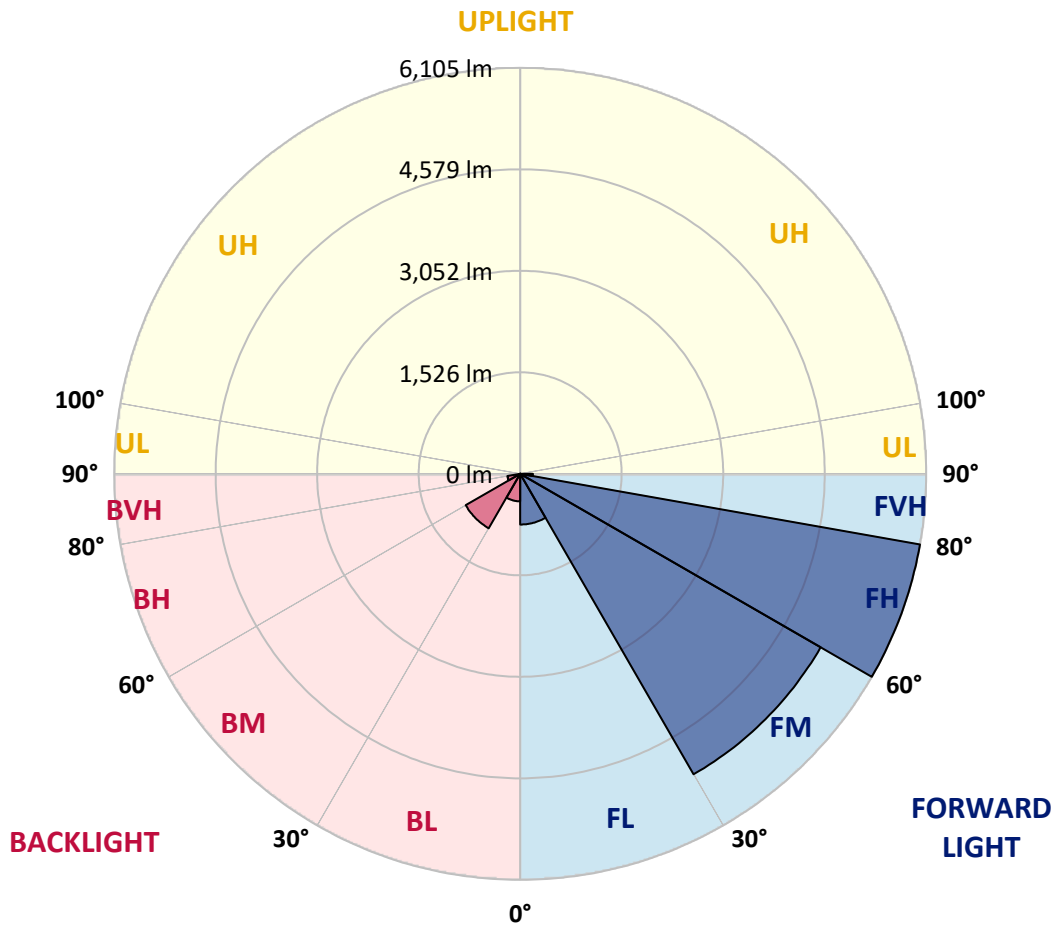
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.6	5.5			
FM	(30°-60°)	5216.4	37.7			
FH	(60°-80°)	6104.7	44.1			G3/7500
FVH	(80°-90°)	192.5	1.4			G2/225
BL	(0°-30°)	413.7	3.0	B1/500		
BM	(30°-60°)	945.1	6.8	B1/1000		
BH	(60°-80°)	195.4	1.4	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9
2.5°	1915.7	1931.9	1934.9	1940.0	1940.0	1946.1	1956.2	1970.4	1993.7	2005.9
5°	1765.7	1777.8	1793.0	1805.2	1828.5	1831.5	1871.1	1909.6	1963.3	2003.9
7.5°	1614.6	1628.8	1649.1	1678.5	1708.9	1718.0	1777.8	1842.7	1927.8	2003.9
10°	1508.2	1509.2	1527.5	1556.9	1605.5	1616.7	1689.6	1781.9	1888.3	1991.7
12.5°	1448.4	1455.5	1463.6	1485.9	1532.5	1539.6	1617.7	1726.1	1848.8	1984.6
15°	1448.4	1453.5	1458.5	1469.7	1507.2	1513.3	1582.2	1690.7	1828.5	1987.6
17.5°	1463.6	1471.7	1467.7	1480.8	1520.4	1524.4	1585.2	1680.5	1827.5	2006.9
20°	1500.1	1506.2	1498.1	1506.2	1545.7	1553.8	1616.7	1699.8	1844.7	2040.3
22.5°	1557.9	1560.9	1541.7	1547.7	1588.3	1598.4	1671.4	1754.5	1886.3	2094.1
25°	1630.9	1636.9	1607.5	1614.6	1653.2	1665.3	1749.4	1836.6	1952.2	2168.1
27.5°	1715.0	1718.0	1692.7	1691.7	1741.3	1758.6	1843.7	1938.0	2040.3	2261.3
30°	1811.3	1820.4	1796.1	1792.0	1854.9	1869.0	1953.2	2062.6	2170.1	2401.2
32.5°	1887.3	1894.4	1880.2	1890.3	1954.2	1965.3	2086.0	2239.0	2373.8	2599.8
35°	1996.8	2000.8	1968.4	1986.6	2059.6	2088.0	2267.4	2486.3	2630.2	2849.2
37.5°	2393.1	2393.1	2255.2	2165.0	2234.9	2260.3	2515.7	2797.5	2946.5	3183.7
40°	2941.4	2932.3	2730.6	2546.1	2537.0	2586.7	2869.5	3189.7	3355.0	3585.0
42.5°	3526.3	3512.1	3237.4	3054.9	3024.5	3041.8	3277.9	3673.2	3841.5	4074.6
45°	4045.2	4041.2	3789.8	3544.5	3489.8	3544.5	3787.8	4238.8	4359.4	4604.7
47.5°	4480.0	4480.0	4296.6	4136.4	4108.0	4140.5	4478.0	4866.2	4855.1	5169.3
50°	4980.7	4976.7	4802.4	4733.4	4762.8	4808.4	5272.7	5527.1	5367.9	5723.7
52.5°	5331.4	5355.8	5296.0	5284.8	5434.8	5513.9	6079.5	6173.7	5827.1	6249.7
55°	5609.2	5637.5	5706.5	5784.5	6073.4	6176.8	6860.9	6786.9	6211.2	6705.9
57.5°	6002.4	5961.9	6068.3	6222.4	6689.6	6814.3	7618.1	7365.7	6520.4	7075.8
60°	6479.8	6485.9	6504.2	6698.8	7304.9	7465.0	8364.1	7913.0	6719.0	7302.9
62.5°	7053.5	7062.6	7100.1	7399.1	8131.0	8282.0	9158.7	8361.0	6810.3	7239.0
65°	7014.0	7052.5	7471.1	8493.8	9386.8	9535.8	10086.2	8675.2	6672.4	6655.2
67.5°	6389.6	6452.5	7152.8	9801.3	11280.2	11446.4	11207.2	8737.1	6077.4	5175.4
70°	5570.6	5592.9	6435.2	10977.1	13472.5	13640.8	12210.6	8057.0	4611.8	2886.7
72.5°	4350.3	4355.4	5343.6	11249.7	14662.5	14671.6	11423.1	5981.1	2480.2	1108.9
75°	3107.6	3077.2	3579.0	9123.3	12899.9	13003.2	8563.8	2805.6	947.7	524.0
77.5°	1666.3	1699.8	2025.1	5410.5	8911.4	9087.8	4672.6	808.8	482.5	356.8
80°	514.9	543.3	830.1	2477.2	5047.6	5154.1	1732.2	359.8	336.5	254.4
82.5°	162.2	168.3	387.2	1040.9	2095.1	2143.7	501.7	203.7	230.1	168.3
85°	46.6	47.6	172.3	388.2	517.9	528.1	140.9	79.1	131.8	104.4
87.5°	5.1	16.2	64.9	64.9	45.6	44.6	15.2	17.2	37.5	13.2
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°
2004.9	0°	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9	2004.9
2014.0	2.5°	2008.9	2009.9	1996.8	1974.5	1950.1	1929.9	1904.5	1884.2	1870.1	1866.0
2032.2	5°	2023.1	2016.0	1978.5	1910.6	1829.5	1759.6	1681.5	1619.7	1579.2	1561.9
2051.5	7.5°	2044.4	2024.1	1942.0	1808.2	1653.2	1515.3	1375.4	1267.0	1198.1	1163.6
2069.7	10°	2062.6	2022.1	1881.2	1660.2	1423.1	1214.3	1025.7	895.0	822.0	787.6
2091.0	12.5°	2079.9	2021.1	1802.1	1484.9	1163.6	908.2	732.8	668.0	647.7	640.6
2125.5	15°	2112.3	2024.1	1702.8	1284.2	905.1	686.2	622.3	621.3	625.4	623.4
2178.2	17.5°	2156.9	2027.2	1590.3	1071.4	698.4	605.1	602.1	611.2	617.3	614.2
2244.1	20°	2214.7	2039.3	1470.7	860.5	600.0	584.8	591.9	600.0	605.1	600.0
2332.3	22.5°	2295.8	2060.6	1340.0	691.3	568.6	572.7	578.8	587.9	592.9	585.9
2444.8	25°	2395.1	2094.1	1211.2	601.1	553.4	558.5	567.6	577.7	583.8	576.7
2586.7	27.5°	2523.8	2147.8	1092.6	580.8	538.2	541.3	554.4	569.6	577.7	568.6
2788.4	30°	2710.3	2236.0	990.3	589.9	529.1	522.0	540.2	561.5	570.6	562.5
3063.0	32.5°	2957.6	2360.6	927.4	604.1	525.0	499.7	516.9	544.3	559.5	554.4
3421.9	35°	3282.0	2550.2	903.1	620.3	522.0	476.4	488.5	517.9	544.3	549.4
3873.9	37.5°	3675.2	2813.7	910.2	627.4	512.9	457.1	463.2	488.5	523.0	539.2
4382.7	40°	4122.2	3120.8	950.7	620.3	502.7	440.9	441.9	461.2	491.6	515.9
4930.1	42.5°	4583.4	3479.6	1025.7	594.0	493.6	426.7	423.7	436.9	457.1	474.4
5476.4	45°	5022.3	3848.6	1099.7	557.5	482.5	412.5	405.4	410.5	414.6	421.7
6008.5	47.5°	5405.4	4108.0	1078.5	524.0	467.3	396.3	384.1	382.1	370.0	368.9
6483.9	50°	5670.0	4164.8	957.8	490.6	445.0	378.1	358.8	346.6	325.4	315.2
6839.7	52.5°	5754.1	3940.8	782.5	457.1	408.5	353.7	326.4	307.1	280.8	271.6
7044.4	55°	5642.6	3501.9	625.4	416.6	357.8	321.3	290.9	265.6	244.3	233.1
7066.7	57.5°	5370.0	2943.4	494.6	368.9	304.1	284.8	254.4	229.1	210.8	199.7
6819.4	60°	4917.9	2337.3	391.2	312.2	259.5	245.3	213.9	197.6	181.4	168.3
6180.8	62.5°	4231.7	1668.4	307.1	247.3	216.9	200.7	182.4	170.3	151.0	132.8
5032.4	65°	3302.3	1020.7	237.2	181.4	174.3	166.2	155.1	143.9	120.6	102.4
3283.0	67.5°	2082.9	483.5	169.3	136.8	137.8	133.8	128.7	119.6	102.4	86.2
1470.7	70°	917.3	234.1	111.5	104.4	102.4	102.4	106.4	103.4	87.2	72.0
510.8	72.5°	312.2	125.7	83.1	79.1	74.0	73.0	89.2	86.2	69.9	55.7
254.4	75°	163.2	84.1	60.8	56.8	44.6	53.7	71.0	66.9	49.7	36.5
168.3	77.5°	106.4	59.8	41.6	36.5	25.3	35.5	52.7	46.6	29.4	18.2
110.5	80°	66.9	39.5	24.3	17.2	12.2	19.3	28.4	20.3	11.1	4.1
64.9	82.5°	35.5	20.3	9.1	6.1	5.1	6.1	7.1	5.1	2.0	0.0
33.4	85°	14.2	7.1	3.0	2.0	1.0	0.0	2.0	1.0	0.0	0.0
6.1	87.5°	5.1	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

(END O

180°
2004.9
1873.1
1568.0
1168.7
788.6
638.6
622.3
613.2
599.0
584.8
575.7
568.6
561.5
554.4
549.4
543.3
524.0
481.5
425.7
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316.2
270.6
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