

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: P939988

Luminaire Tested: **GALN-SB2D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939988
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-SB2D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA 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: 13845 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

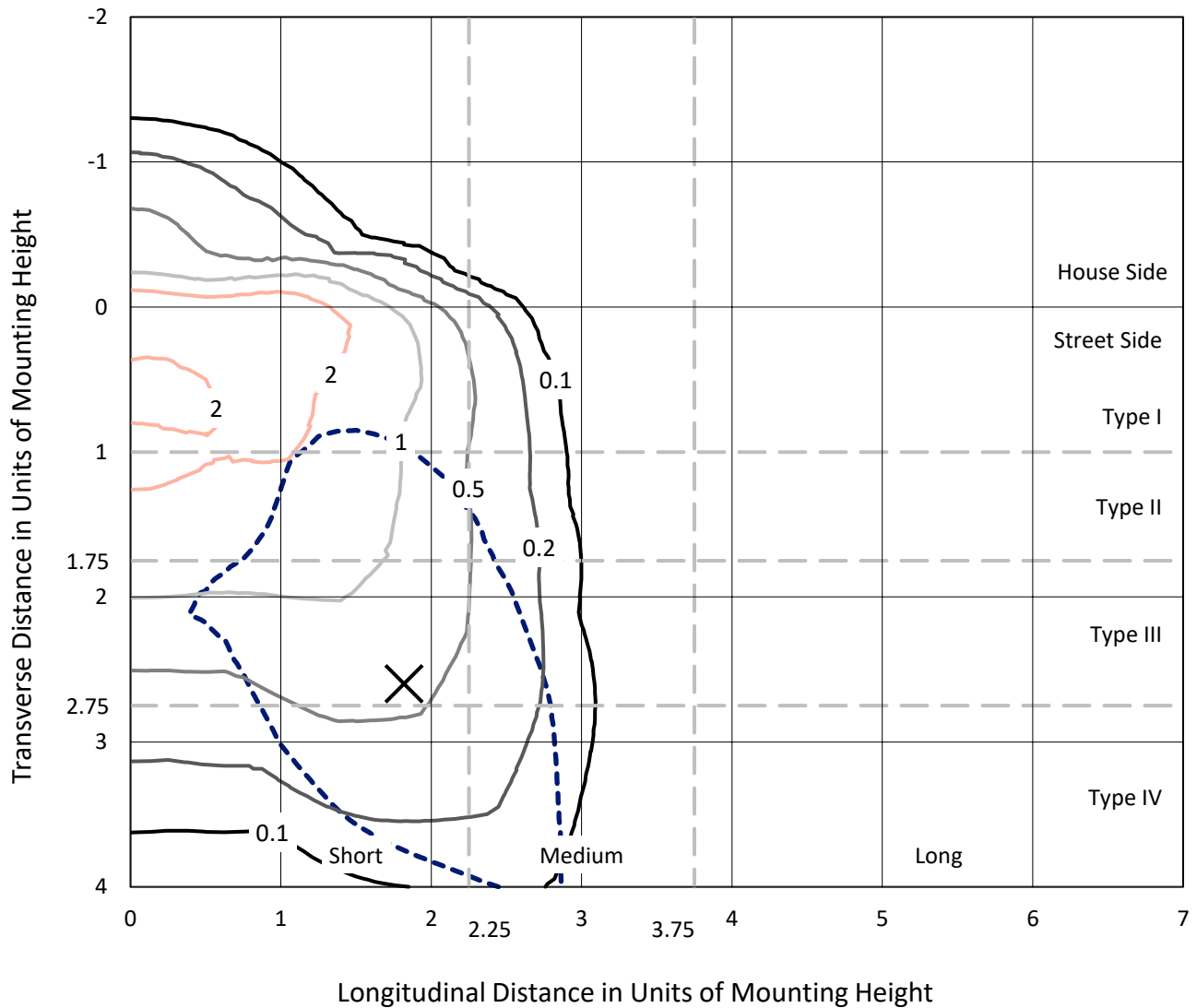
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

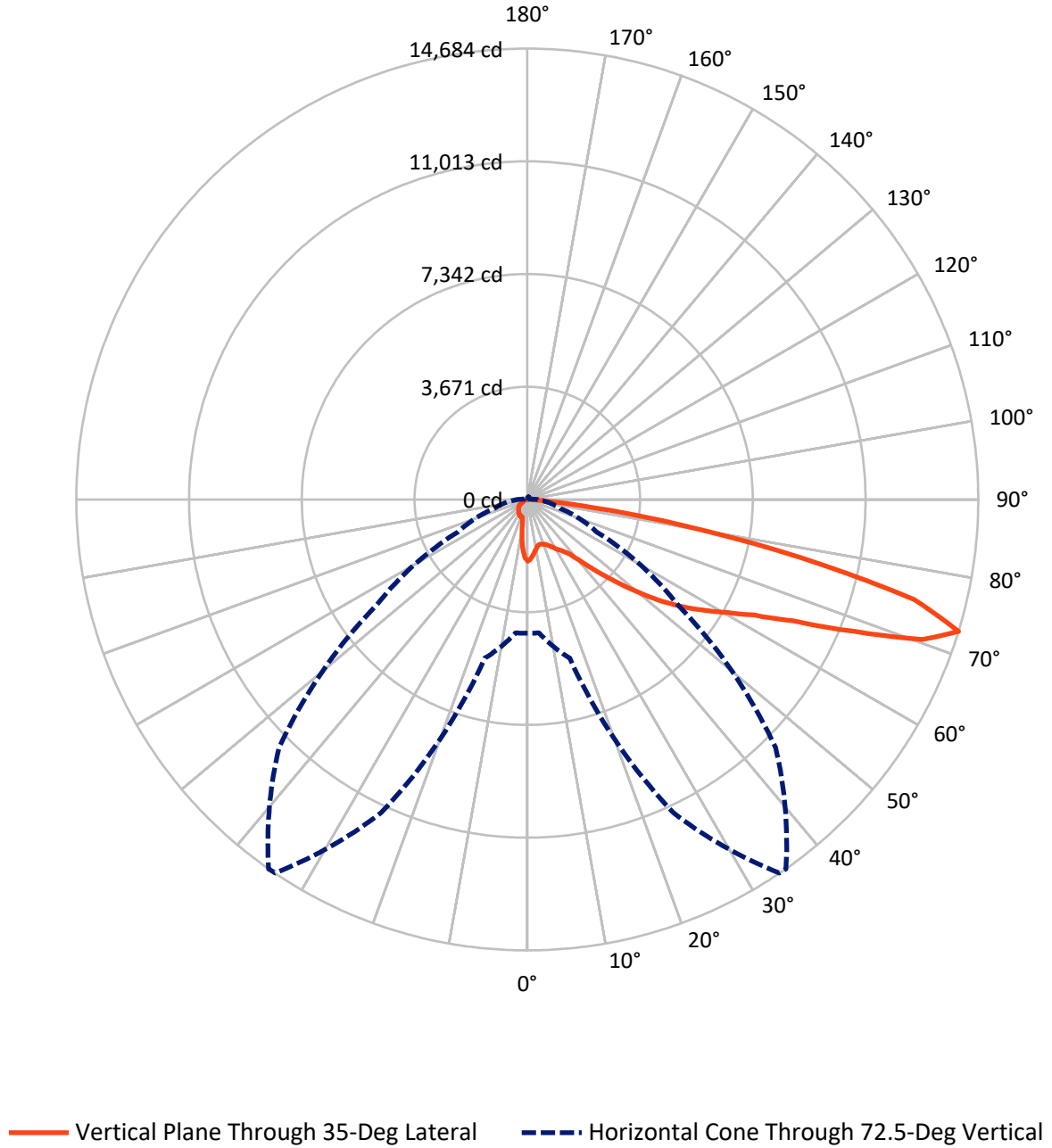
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1558.2	0.0	1558.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12286.8	0.0	12286.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	13845.0	0.0	13845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.2
10°-20°	385.7	2.8
20°-30°	626.6	4.5
30°-40°	1045.5	7.6
40°-50°	1978.1	14.3
50°-60°	3143.3	22.7
60°-70°	3888.4	28.1
70°-80°	2417.1	17.5
80°-90°	195.3	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°	13845.0	100.0
0°-180°	13845.0	100.0

Coefficient of Utilization



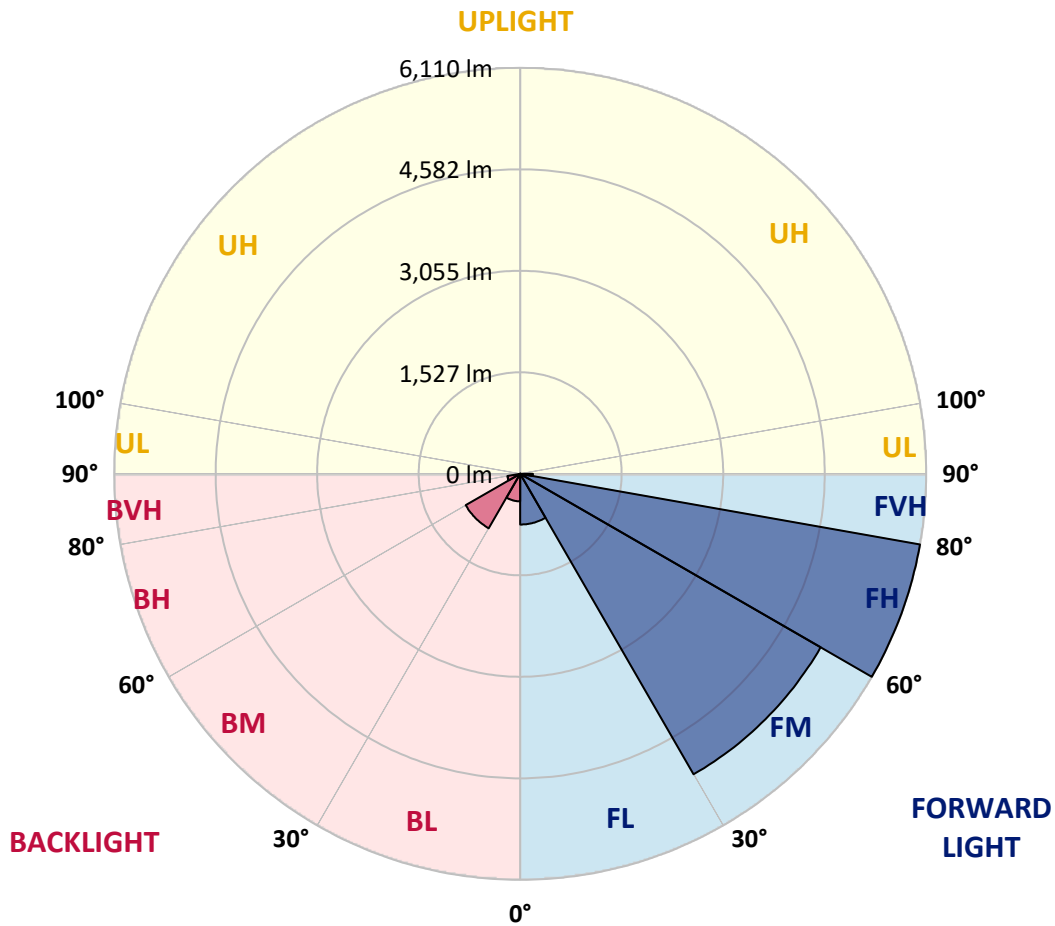
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.2	5.5			
FM (30°-60°)	5220.9	37.7			
FH (60°-80°)	6110.0	44.1			G3/7500
FVH (80°-90°)	192.7	1.4			G2/225
BL (0°-30°)	414.0	3.0	B1/500		
BM (30°-60°)	946.0	6.8	B1/1000		
BH (60°-80°)	195.5	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°	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6
2.5°	1917.3	1933.6	1936.6	1941.7	1941.7	1947.8	1957.9	1972.1	1995.4	2007.6
5°	1767.2	1779.4	1794.6	1806.8	1830.1	1833.1	1872.7	1911.2	1965.0	2005.6
7.5°	1616.0	1630.2	1650.5	1679.9	1710.4	1719.5	1779.4	1844.3	1929.5	2005.6
10°	1509.5	1510.5	1528.8	1558.2	1606.9	1618.1	1691.1	1783.4	1889.9	1993.4
12.5°	1449.7	1456.8	1464.9	1487.2	1533.9	1541.0	1619.1	1727.6	1850.4	1986.3
15°	1449.7	1454.7	1459.8	1471.0	1508.5	1514.6	1583.6	1692.1	1830.1	1989.4
17.5°	1464.9	1473.0	1468.9	1482.1	1521.7	1525.7	1586.6	1682.0	1829.1	2008.6
20°	1501.4	1507.5	1499.4	1507.5	1547.1	1555.2	1618.1	1701.3	1846.3	2042.1
22.5°	1559.2	1562.3	1543.0	1549.1	1589.7	1599.8	1672.8	1756.0	1887.9	2095.9
25°	1632.3	1638.4	1608.9	1616.0	1654.6	1666.8	1751.0	1838.2	1953.9	2169.9
27.5°	1716.5	1719.5	1694.2	1693.1	1742.8	1760.1	1845.3	1939.7	2042.1	2263.3
30°	1812.8	1822.0	1797.6	1793.6	1856.5	1870.7	1954.9	2064.4	2172.0	2403.3
32.5°	1888.9	1896.0	1881.8	1892.0	1955.9	1967.0	2087.8	2240.9	2375.9	2602.1
35°	1998.5	2002.5	1970.1	1988.3	2061.4	2089.8	2269.4	2488.5	2632.5	2851.7
37.5°	2395.1	2395.1	2257.2	2166.9	2236.9	2262.2	2517.9	2799.9	2949.0	3186.4
40°	2944.0	2934.8	2733.0	2548.3	2539.2	2588.9	2871.9	3192.5	3357.9	3588.2
42.5°	3529.3	3515.1	3240.2	3057.6	3027.2	3044.4	3280.8	3676.4	3844.8	4078.1
45°	4048.7	4044.7	3793.1	3547.6	3492.8	3547.6	3791.0	4242.5	4363.2	4608.7
47.5°	4483.9	4483.9	4300.3	4140.0	4111.6	4144.1	4481.9	4870.4	4859.3	5173.8
50°	4985.1	4981.0	4806.5	4737.5	4767.0	4812.6	5277.2	5531.9	5372.6	5728.7
52.5°	5336.1	5360.4	5300.6	5289.4	5439.5	5518.7	6084.7	6179.1	5832.1	6255.2
55°	5614.0	5642.4	5711.4	5789.5	6078.7	6182.1	6866.9	6792.8	6216.6	6711.7
57.5°	6007.6	5967.1	6073.6	6227.8	6695.4	6820.2	7624.7	7372.1	6526.0	7082.0
60°	6485.5	6491.5	6509.8	6704.6	7311.2	7471.5	8371.3	7919.9	6724.9	7309.2
62.5°	7059.6	7068.8	7106.3	7405.6	8138.0	8289.2	9166.7	8368.3	6816.2	7245.3
65°	7020.1	7058.6	7477.6	8501.2	9394.9	9544.1	10094.9	8682.8	6678.2	6661.0
67.5°	6395.2	6458.1	7159.1	9809.8	11289.9	11456.3	11216.9	8744.7	6082.7	5179.8
70°	5575.5	5597.8	6440.8	10986.6	13484.2	13652.6	12221.2	8064.0	4615.8	2889.2
72.5°	4354.1	4359.1	5348.2	11259.5	14675.2	14684.3	11433.0	5986.3	2482.4	1109.8
75°	3110.3	3079.9	3582.1	9131.2	12911.1	13014.5	8571.2	2808.0	948.5	524.5
77.5°	1667.8	1701.3	2026.9	5415.2	8919.1	9095.7	4676.7	809.5	482.9	357.1
80°	515.3	543.8	830.8	2479.3	5052.0	5158.5	1733.7	360.1	336.8	254.6
82.5°	162.3	168.4	387.5	1041.9	2096.9	2145.6	502.2	203.9	230.3	168.4
85°	46.7	47.7	172.5	388.5	518.4	528.5	141.0	79.1	131.9	104.5
87.5°	5.1	16.2	64.9	64.9	45.7	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°
2006.6	0°	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6	2006.6
2015.7	2.5°	2010.7	2011.7	1998.5	1976.2	1951.8	1931.5	1906.2	1885.9	1871.7	1867.6
2034.0	5°	2024.9	2017.8	1980.2	1912.3	1831.1	1761.1	1683.0	1621.1	1580.5	1563.3
2053.3	7.5°	2046.2	2025.9	1943.7	1809.8	1654.6	1516.6	1376.6	1268.1	1199.1	1164.6
2071.5	10°	2064.4	2023.9	1882.8	1661.7	1424.3	1215.3	1026.6	895.8	822.7	788.2
2092.8	12.5°	2081.7	2022.8	1803.7	1486.2	1164.6	909.0	733.5	668.5	648.2	641.1
2127.3	15°	2114.1	2025.9	1704.3	1285.3	905.9	686.8	622.9	621.9	625.9	623.9
2180.1	17.5°	2158.8	2028.9	1591.7	1072.3	699.0	605.6	602.6	611.7	617.8	614.8
2246.0	20°	2216.6	2041.1	1472.0	861.3	600.6	585.3	592.4	600.6	605.6	600.6
2334.3	22.5°	2297.8	2062.4	1341.1	691.9	569.1	573.2	579.3	588.4	593.5	586.4
2446.9	25°	2397.2	2095.9	1212.3	601.6	553.9	559.0	568.1	578.2	584.3	577.2
2588.9	27.5°	2526.0	2149.6	1093.6	581.3	538.7	541.7	554.9	570.1	578.2	569.1
2790.8	30°	2712.7	2237.9	991.1	590.4	529.5	522.4	540.7	562.0	571.1	563.0
3065.7	32.5°	2960.2	2362.7	928.2	604.6	525.5	500.1	517.4	544.8	560.0	554.9
3424.8	35°	3284.8	2552.4	903.9	620.9	522.4	476.8	489.0	518.4	544.8	549.8
3877.3	37.5°	3678.4	2816.1	911.0	628.0	513.3	457.5	463.6	489.0	523.5	539.7
4386.5	40°	4125.8	3123.5	951.6	620.9	503.2	441.3	442.3	461.6	492.0	516.4
4934.3	42.5°	4587.4	3482.6	1026.6	594.5	494.0	427.1	424.0	437.2	457.5	474.8
5481.1	45°	5026.7	3851.9	1100.7	558.0	482.9	412.9	405.8	410.9	414.9	422.0
6013.7	47.5°	5410.1	4111.6	1079.4	524.5	467.7	396.7	384.5	382.5	370.3	369.3
6489.5	50°	5674.9	4168.4	958.7	491.0	445.3	378.4	359.1	346.9	325.6	315.5
6845.6	52.5°	5759.1	3944.2	783.2	457.5	408.8	354.0	326.7	307.4	281.0	271.9
7050.5	55°	5647.5	3505.0	625.9	416.9	358.1	321.6	291.2	265.8	244.5	233.3
7072.8	57.5°	5374.6	2946.0	495.1	369.3	304.3	285.1	254.6	229.3	211.0	199.8
6825.3	60°	4922.2	2339.3	391.6	312.5	259.7	245.5	214.1	197.8	181.6	168.4
6186.2	62.5°	4235.4	1669.8	307.4	247.5	217.1	200.9	182.6	170.4	151.2	132.9
5036.8	65°	3305.1	1021.6	237.4	181.6	174.5	166.4	155.2	144.1	120.7	102.5
3285.8	67.5°	2084.7	483.9	169.4	137.0	138.0	133.9	128.8	119.7	102.5	86.2
1472.0	70°	918.1	234.3	111.6	104.5	102.5	102.5	106.5	103.5	87.2	72.0
511.3	72.5°	312.5	125.8	83.2	79.1	74.1	73.0	89.3	86.2	70.0	55.8
254.6	75°	163.3	84.2	60.9	56.8	44.6	53.8	71.0	67.0	49.7	36.5
168.4	77.5°	106.5	59.9	41.6	36.5	25.4	35.5	52.8	46.7	29.4	18.3
110.6	80°	67.0	39.6	24.3	17.2	12.2	19.3	28.4	20.3	11.2	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
33.5	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°
2006.6
1874.7
1569.4
1169.7
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569.1
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549.8
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