

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: P940018

Luminaire Tested: **GALN-SB2D-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940018
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-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 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: 14738 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

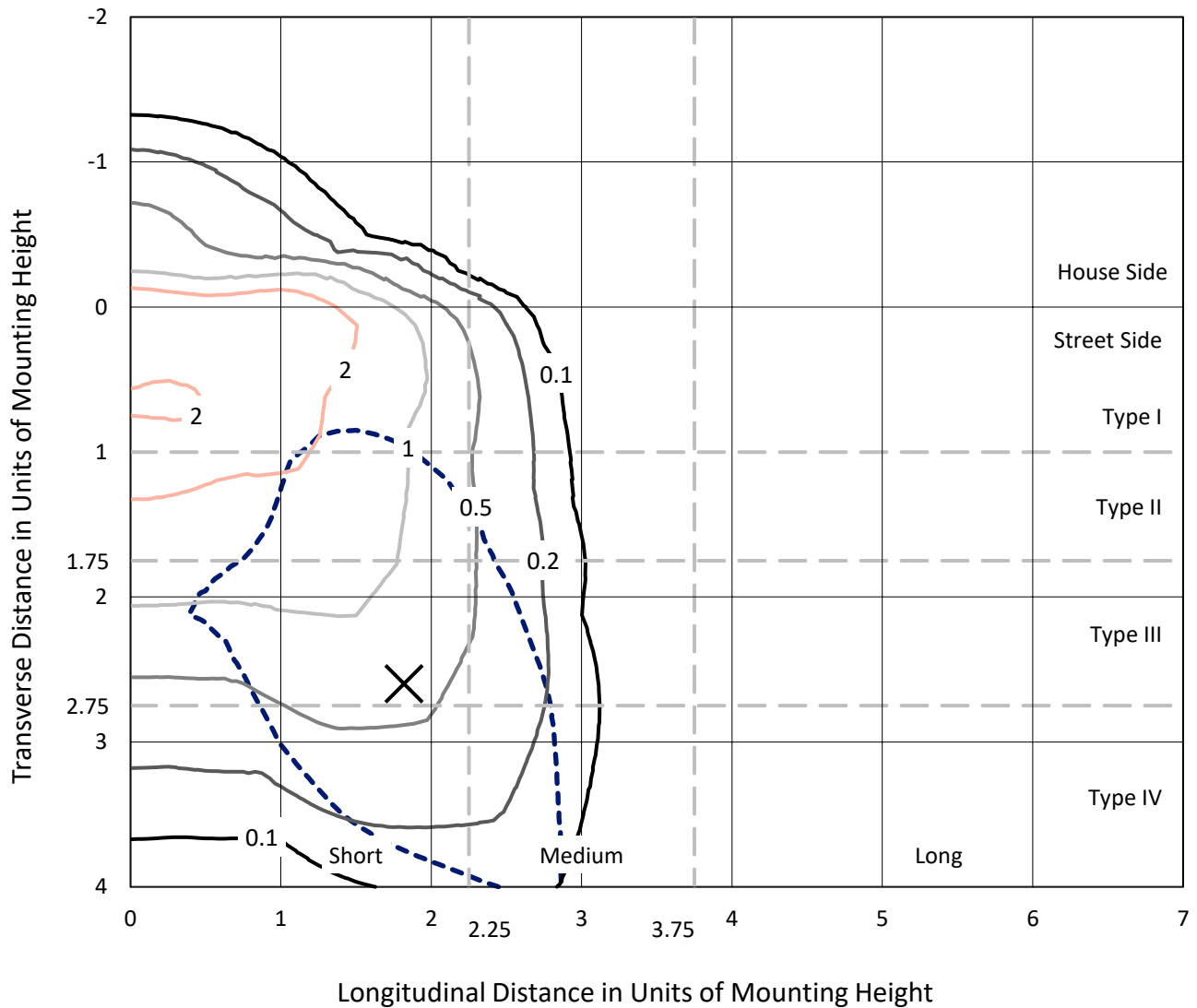
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

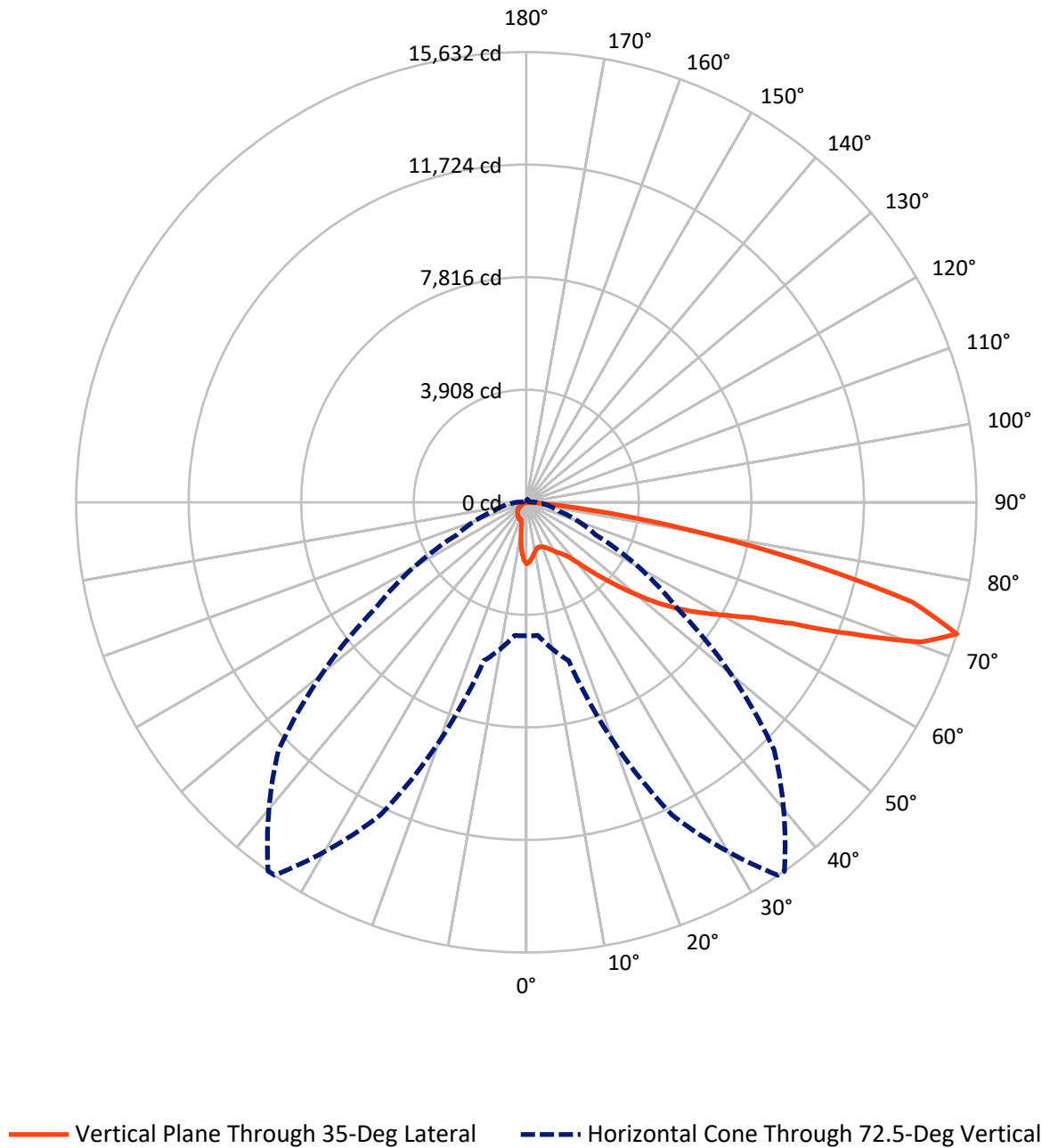
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1658.7	0.0	1658.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13079.3	0.0	13079.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	14738.0	0.0	14738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.2
10°-20°	410.6	2.8
20°-30°	667.0	4.5
30°-40°	1112.9	7.6
40°-50°	2105.7	14.3
50°-60°	3346.0	22.7
60°-70°	4139.2	28.1
70°-80°	2573.0	17.5
80°-90°	207.9	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°	14738.0	100.0
0°-180°	14738.0	100.0

Coefficient of Utilization



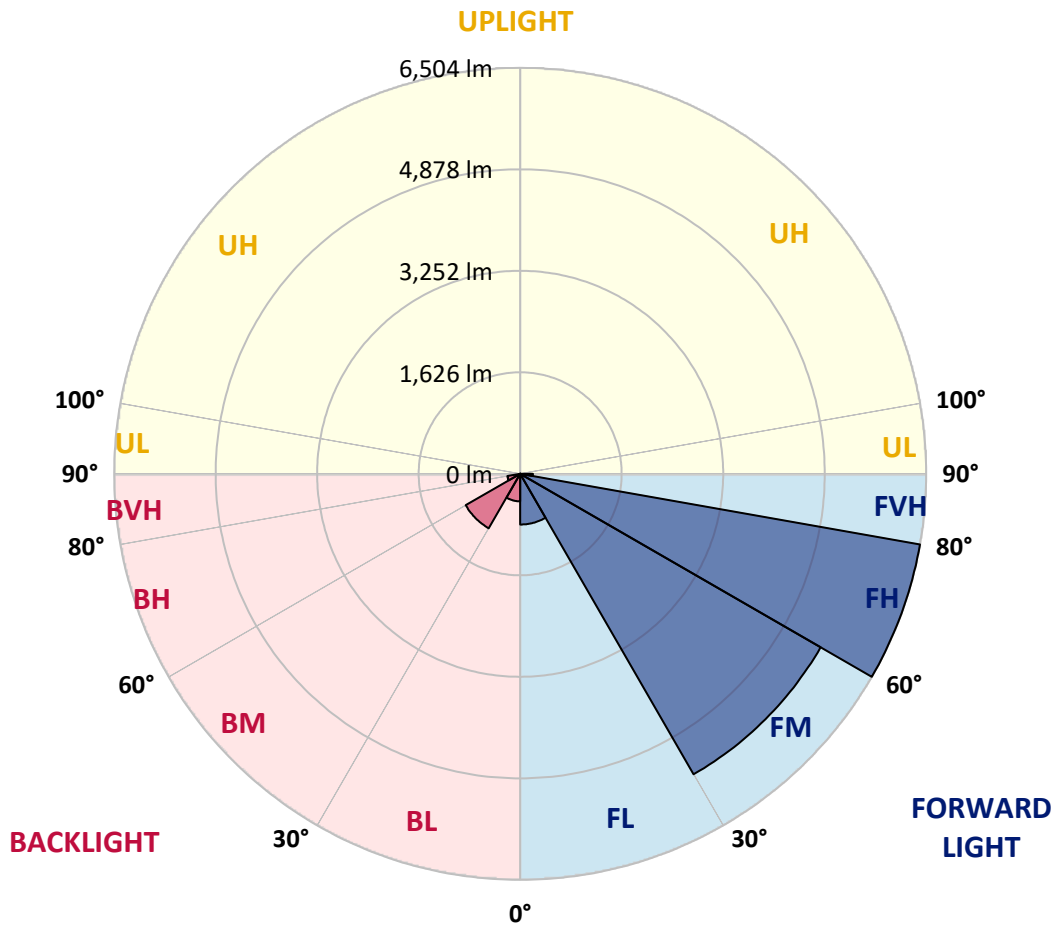
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.4	5.5			
FM (30°-60°)	5557.7	37.7			
FH (60°-80°)	6504.1	44.1			G3/7500
FVH (80°-90°)	205.1	1.4			G2/225
BL (0°-30°)	440.7	3.0	B1/500		
BM (30°-60°)	1007.0	6.8	B2/2500		
BH (60°-80°)	208.1	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2041.0	2058.3	2061.5	2066.9	2066.9	2073.4	2084.2	2099.3	2124.2	2137.1
5°	1881.2	1894.1	1910.3	1923.3	1948.1	1951.4	1993.5	2034.5	2091.8	2135.0
7.5°	1720.3	1735.4	1757.0	1788.3	1820.7	1830.4	1894.1	1963.2	2054.0	2135.0
10°	1606.9	1608.0	1627.4	1658.7	1710.6	1722.4	1800.2	1898.5	2011.8	2122.0
12.5°	1543.2	1550.7	1559.4	1583.1	1632.8	1640.4	1723.5	1839.1	1969.7	2114.4
15°	1543.2	1548.6	1554.0	1565.8	1605.8	1612.3	1685.7	1801.3	1948.1	2117.7
17.5°	1559.4	1568.0	1563.7	1577.7	1619.8	1624.2	1689.0	1790.5	1947.0	2138.2
20°	1598.2	1604.7	1596.1	1604.7	1646.8	1655.5	1722.4	1811.0	1965.4	2173.8
22.5°	1659.8	1663.0	1642.5	1649.0	1692.2	1703.0	1780.7	1869.3	2009.7	2231.1
25°	1737.5	1744.0	1712.7	1720.3	1761.3	1774.3	1863.9	1956.8	2079.9	2309.9
27.5°	1827.2	1830.4	1803.4	1802.3	1855.3	1873.6	1964.3	2064.8	2173.8	2409.2
30°	1929.8	1939.5	1913.6	1909.3	1976.2	1991.3	2081.0	2197.6	2312.1	2558.3
32.5°	2010.8	2018.3	2003.2	2014.0	2082.0	2093.9	2222.4	2385.5	2529.1	2769.9
35°	2127.4	2131.7	2097.2	2116.6	2194.3	2224.6	2415.7	2649.0	2802.3	3035.6
37.5°	2549.6	2549.6	2402.8	2306.7	2381.2	2408.2	2680.3	2980.5	3139.3	3391.9
40°	3133.9	3124.1	2909.2	2712.7	2703.0	2755.9	3057.2	3398.4	3574.4	3819.6
42.5°	3757.0	3741.8	3449.2	3254.8	3222.4	3240.8	3492.4	3913.5	4092.8	4341.2
45°	4309.9	4305.5	4037.7	3776.4	3718.1	3776.4	4035.6	4516.1	4644.6	4906.0
47.5°	4773.1	4773.1	4577.7	4407.0	4376.8	4411.4	4771.0	5184.6	5172.7	5507.5
50°	5306.6	5302.3	5116.5	5043.1	5074.4	5123.0	5617.6	5888.7	5719.1	6098.2
52.5°	5680.2	5706.2	5642.4	5630.6	5790.4	5874.6	6477.2	6577.6	6208.3	6658.6
55°	5976.1	6006.4	6079.8	6163.0	6470.7	6580.9	7309.8	7231.0	6617.6	7144.6
57.5°	6395.1	6351.9	6465.3	6629.5	7127.3	7260.1	8116.5	7847.6	6947.0	7538.7
60°	6903.8	6910.2	6929.7	7137.0	7782.8	7953.4	8911.3	8430.7	7158.6	7780.6
62.5°	7515.0	7524.7	7564.7	7883.2	8662.9	8823.8	9757.9	8908.0	7255.8	7712.6
65°	7472.9	7513.9	7959.9	9049.5	10000.9	10159.6	10746.0	9242.8	7108.9	7090.6
67.5°	6807.7	6874.6	7620.8	10442.6	12018.1	12195.2	11940.4	9308.7	6475.0	5513.9
70°	5935.1	5958.9	6856.2	11695.3	14354.0	14533.2	13009.5	8584.1	4913.5	3075.5
72.5°	4634.9	4640.3	5693.2	11985.7	15621.7	15631.5	12170.4	6372.5	2642.5	1181.4
75°	3311.0	3278.6	3813.1	9720.1	13743.8	13854.0	9124.0	2989.1	1009.7	558.3
77.5°	1775.3	1811.0	2157.6	5764.5	9494.4	9682.3	4978.3	861.8	514.0	380.1
80°	548.6	578.8	884.4	2639.3	5377.9	5491.3	1845.5	383.4	358.5	271.1
82.5°	172.8	179.3	412.5	1109.1	2232.1	2284.0	534.5	217.1	245.1	179.3
85°	49.7	50.8	183.6	413.6	551.8	562.6	150.1	84.2	140.4	111.2
87.5°	5.4	17.3	69.1	69.1	48.6	47.5	16.2	18.4	40.0	14.0
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°
2136.0	0°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2145.7	2.5°	2140.3	2141.4	2127.4	2103.6	2077.7	2056.1	2029.1	2007.5	1992.4	1988.1
2165.2	5°	2155.5	2147.9	2108.0	2035.6	1949.2	1874.7	1791.5	1725.7	1682.5	1664.1
2185.7	7.5°	2178.1	2156.5	2069.1	1926.5	1761.3	1614.4	1465.4	1349.9	1276.4	1239.7
2205.1	10°	2197.6	2154.4	2004.3	1768.9	1516.2	1293.7	1092.9	953.5	875.8	839.1
2227.8	12.5°	2215.9	2153.3	1920.1	1582.0	1239.7	967.6	780.8	711.7	690.1	682.5
2264.5	15°	2250.5	2156.5	1814.2	1368.2	964.3	731.1	663.1	662.0	666.3	664.1
2320.7	17.5°	2298.0	2159.8	1694.4	1141.4	744.0	644.7	641.5	651.2	657.7	654.4
2390.9	20°	2359.6	2172.7	1566.9	916.8	639.3	623.1	630.7	639.3	644.7	639.3
2484.8	22.5°	2446.0	2195.4	1427.6	736.5	605.8	610.1	616.6	626.3	631.7	624.2
2604.7	25°	2551.8	2231.1	1290.5	640.4	589.6	595.0	604.7	615.5	622.0	614.5
2755.9	27.5°	2688.9	2288.3	1164.1	618.8	573.4	576.7	590.7	606.9	615.5	605.8
2970.8	30°	2887.6	2382.2	1055.1	628.5	563.7	556.1	575.6	598.3	608.0	599.3
3263.4	32.5°	3151.1	2515.1	988.1	643.6	559.4	532.4	550.7	579.9	596.1	590.7
3645.7	35°	3496.7	2717.0	962.2	660.9	556.1	507.6	520.5	551.8	579.9	585.3
4127.4	37.5°	3915.7	2997.8	969.7	668.5	546.4	487.0	493.5	520.5	557.2	574.5
4669.5	40°	4391.9	3325.0	1012.9	660.9	535.6	469.8	470.8	491.4	523.7	549.7
5252.6	42.5°	4883.3	3707.3	1092.9	632.8	525.9	454.6	451.4	465.4	487.0	505.4
5834.7	45°	5350.9	4100.4	1171.7	593.9	514.0	439.5	432.0	437.4	441.7	449.2
6401.6	47.5°	5759.1	4376.8	1149.0	558.3	497.8	422.2	409.3	407.1	394.2	393.1
6908.1	50°	6040.9	4437.3	1020.5	522.7	474.1	402.8	382.3	369.3	346.6	335.8
7287.1	52.5°	6130.6	4198.6	833.7	487.0	435.2	376.9	347.7	327.2	299.1	289.4
7505.3	55°	6011.8	3731.0	666.3	443.8	381.2	342.3	309.9	282.9	260.3	248.4
7529.0	57.5°	5721.3	3136.0	527.0	393.1	324.0	303.5	271.1	244.1	224.6	212.7
7265.5	60°	5239.6	2490.2	416.8	332.6	276.5	261.3	227.9	210.6	193.3	179.3
6585.2	62.5°	4508.6	1777.5	327.2	263.5	231.1	213.8	194.4	181.4	160.9	141.5
5361.7	65°	3518.3	1087.5	252.7	193.3	185.7	177.1	165.2	153.3	128.5	109.1
3497.8	67.5°	2219.2	515.1	180.3	145.8	146.9	142.5	137.1	127.4	109.1	91.8
1566.9	70°	977.3	249.5	118.8	111.2	109.1	109.1	113.4	110.1	92.9	76.7
544.3	72.5°	332.6	133.9	88.6	84.2	78.8	77.8	95.0	91.8	74.5	59.4
271.1	75°	173.9	89.6	64.8	60.5	47.5	57.2	75.6	71.3	52.9	38.9
179.3	77.5°	113.4	63.7	44.3	38.9	27.0	37.8	56.2	49.7	31.3	19.4
117.7	80°	71.3	42.1	25.9	18.4	13.0	20.5	30.2	21.6	11.9	4.3
69.1	82.5°	37.8	21.6	9.7	6.5	5.4	6.5	7.6	5.4	2.2	0.0
35.6	85°	15.1	7.6	3.2	2.2	1.1	0.0	2.2	1.1	0.0	0.0
6.5	87.5°	5.4	1.1	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

<u>180°</u>
2136.0
1995.6
1670.6
1245.1
840.2
680.3
663.1
653.3
638.2
623.1
613.4
605.8
598.3
590.7
585.3
578.8
558.3
512.9
453.6
392.0
336.9
288.3
248.4
210.6
176.0
138.2
105.8
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