

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: P941768

Luminaire Tested: **GALN-SB5B-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941768
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-SB5B-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA 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: 14982 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

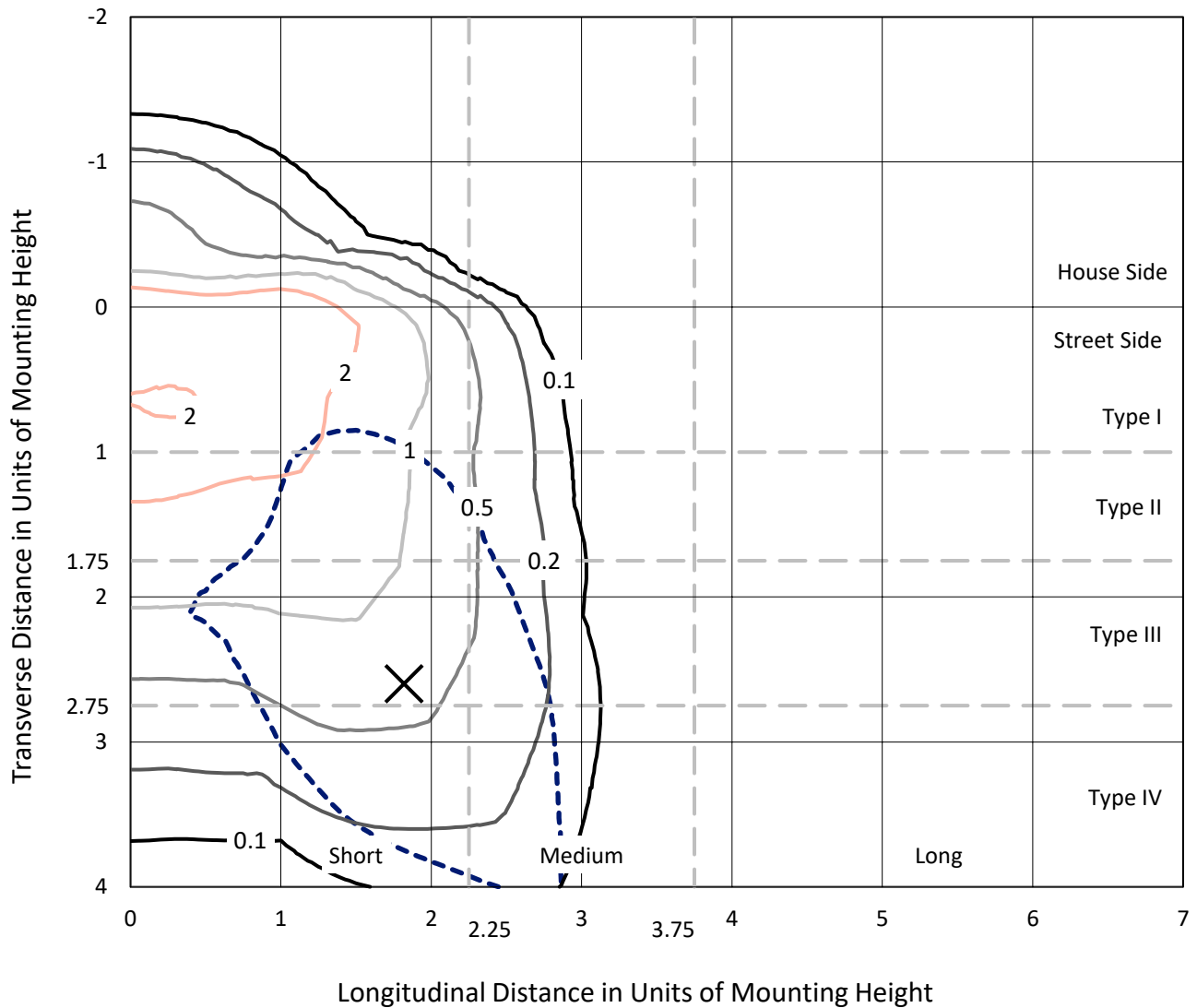
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

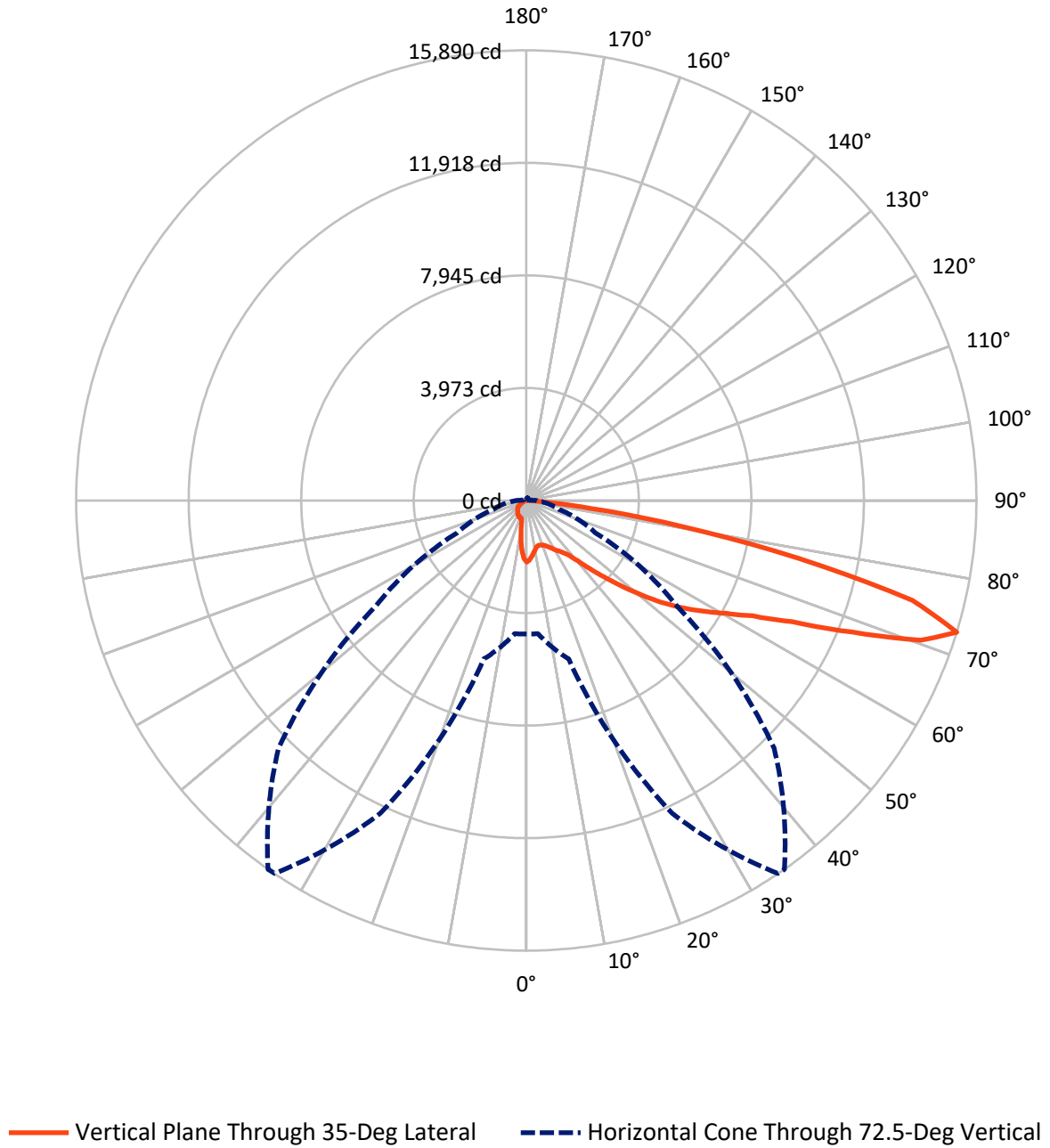
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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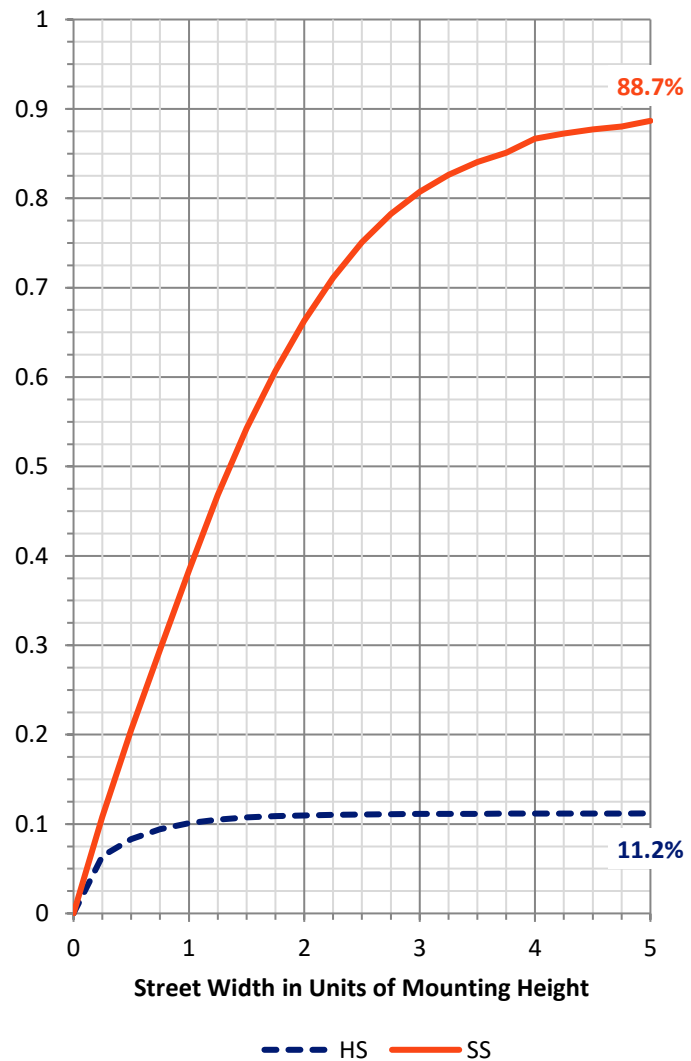
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.2	0.0	1686.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13295.8	0.0	13295.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	14982.0	0.0	14982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	1.2
10°-20°	417.4	2.8
20°-30°	678.1	4.5
30°-40°	1131.4	7.6
40°-50°	2140.6	14.3
50°-60°	3401.4	22.7
60°-70°	4207.8	28.1
70°-80°	2615.6	17.5
80°-90°	211.4	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°	14982.0	100.0
0°-180°	14982.0	100.0

Coefficient of Utilization



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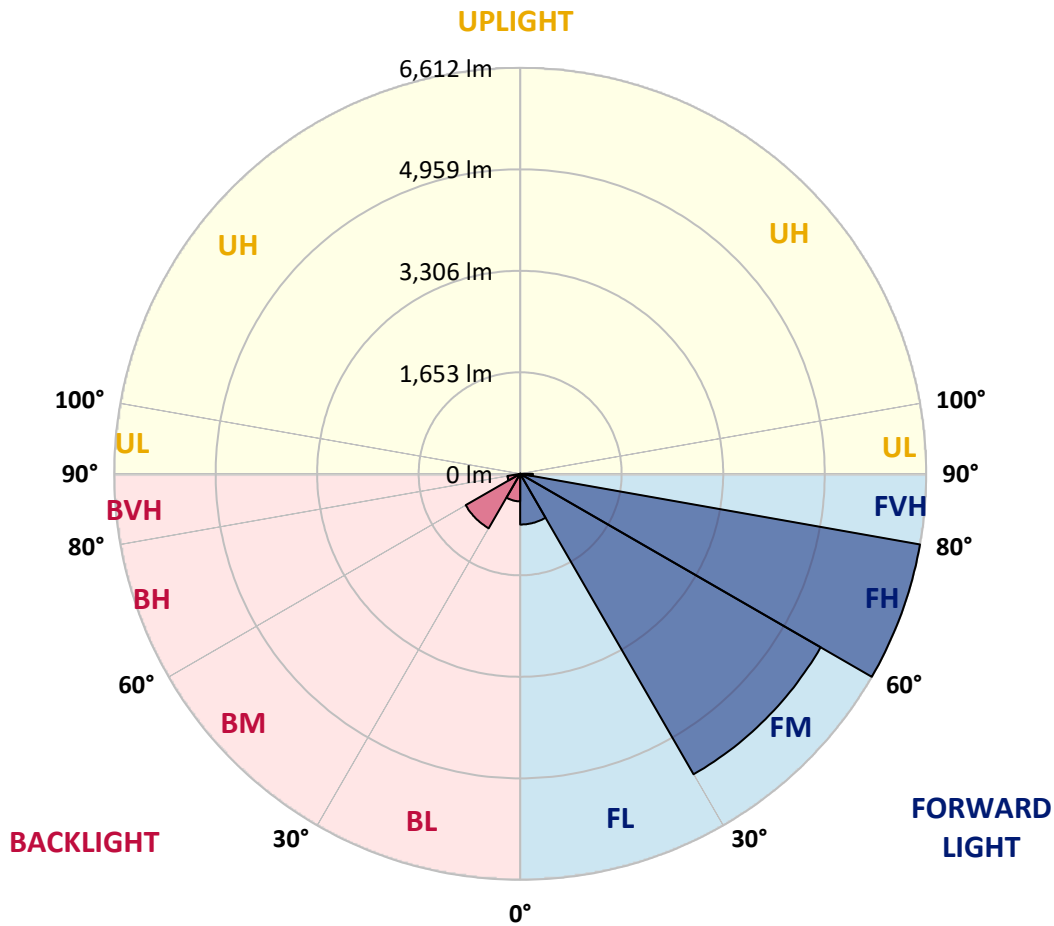
CATALOG NUMBER: GALN-SB5B-950-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.9	5.5			
FM (30°-60°)	5649.7	37.7			
FH (60°-80°)	6611.7	44.1			G3/7500
FVH (80°-90°)	208.5	1.4			G2/225
BL (0°-30°)	448.0	3.0	B1/500		
BM (30°-60°)	1023.6	6.8	B2/2500		
BH (60°-80°)	211.6	1.4	B1/500		G1/500
BVH (80°-90°)	2.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4
2.5°	2074.8	2092.4	2095.6	2101.1	2101.1	2107.7	2118.7	2134.1	2159.3	2172.5
5°	1912.3	1925.5	1942.0	1955.1	1980.4	1983.7	2026.5	2068.2	2126.4	2170.3
7.5°	1748.8	1764.1	1786.1	1817.9	1850.8	1860.7	1925.5	1995.8	2088.0	2170.3
10°	1633.5	1634.6	1654.3	1686.2	1738.9	1750.9	1830.0	1929.9	2045.2	2157.1
12.5°	1568.7	1576.4	1585.2	1609.3	1659.8	1667.5	1752.0	1869.5	2002.3	2149.4
15°	1568.7	1574.2	1579.7	1591.8	1632.4	1639.0	1713.6	1831.1	1980.4	2152.7
17.5°	1585.2	1594.0	1589.6	1603.8	1646.7	1651.0	1716.9	1820.1	1979.3	2173.6
20°	1624.7	1631.3	1622.5	1631.3	1674.1	1682.9	1750.9	1841.0	1997.9	2209.8
22.5°	1687.3	1690.6	1669.7	1676.3	1720.2	1731.2	1810.2	1900.2	2043.0	2268.0
25°	1766.3	1772.9	1741.1	1748.8	1790.5	1803.6	1894.8	1989.2	2114.3	2348.1
27.5°	1857.4	1860.7	1833.3	1832.2	1886.0	1904.6	1996.8	2098.9	2209.8	2449.1
30°	1961.7	1971.6	1945.3	1940.9	2008.9	2024.3	2115.4	2234.0	2350.3	2600.6
32.5°	2044.1	2051.7	2036.4	2047.3	2116.5	2128.6	2259.2	2425.0	2571.0	2815.8
35°	2162.6	2167.0	2131.9	2151.6	2230.7	2261.4	2455.7	2692.8	2848.7	3085.8
37.5°	2591.8	2591.8	2442.5	2344.8	2420.6	2448.0	2724.7	3029.9	3191.2	3448.1
40°	3185.7	3175.9	2957.4	2757.6	2747.7	2801.5	3107.8	3454.7	3633.6	3882.8
42.5°	3819.2	3803.8	3506.3	3308.7	3275.8	3294.4	3550.2	3978.3	4160.6	4413.0
45°	4381.2	4376.8	4104.6	3838.9	3779.6	3838.9	4102.4	4590.9	4721.5	4987.2
47.5°	4852.2	4852.2	4653.5	4480.0	4449.3	4484.4	4850.0	5270.4	5258.3	5598.6
50°	5394.5	5390.1	5201.2	5126.6	5158.4	5207.8	5710.6	5986.2	5813.8	6199.1
52.5°	5774.3	5800.6	5735.9	5723.8	5886.3	5971.9	6584.4	6686.5	6311.1	6768.9
55°	6075.1	6105.8	6180.5	6265.0	6577.9	6689.8	7430.8	7350.7	6727.2	7262.9
57.5°	6501.0	6457.1	6572.4	6739.2	7245.3	7380.3	8250.9	7977.5	7062.0	7663.6
60°	7018.1	7024.6	7044.4	7255.2	7911.6	8085.1	9058.8	8570.3	7277.1	7909.5
62.5°	7639.4	7649.3	7689.9	8013.7	8806.3	8969.9	9919.5	9055.5	7375.9	7840.3
65°	7596.6	7638.3	8091.7	9199.3	10166.5	10327.8	10923.9	9395.8	7226.6	7208.0
67.5°	6920.4	6988.4	7747.0	10615.5	12217.1	12397.1	12138.1	9462.8	6582.2	5605.2
70°	6033.4	6057.5	6969.8	11888.9	14591.6	14773.8	13224.9	8726.2	4994.9	3126.5
72.5°	4711.6	4717.1	5787.5	12184.2	15880.4	15890.3	12371.9	6478.0	2686.2	1201.0
75°	3365.8	3332.8	3876.2	9881.1	13971.4	14083.3	9275.1	3038.6	1026.4	567.5
77.5°	1804.7	1841.0	2193.3	5859.9	9651.6	9842.6	5060.7	876.0	522.5	386.4
80°	557.7	588.4	899.1	2683.0	5466.9	5582.2	1876.1	389.7	364.5	275.5
82.5°	175.6	182.2	419.3	1127.4	2269.1	2321.8	543.4	220.7	249.2	182.2
85°	50.5	51.6	186.6	420.4	561.0	571.9	152.6	85.6	142.7	113.1
87.5°	5.5	17.6	70.3	70.3	49.4	48.3	16.5	18.7	40.6	14.3
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°
2171.4	0°	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4	2171.4
2181.3	2.5°	2175.8	2176.9	2162.6	2138.5	2112.1	2090.2	2062.7	2040.8	2025.4	2021.0
2201.0	5°	2191.2	2183.5	2142.9	2069.3	1981.5	1905.7	1821.2	1754.2	1710.3	1691.7
2221.9	7.5°	2214.2	2192.3	2103.3	1958.4	1790.5	1641.2	1489.7	1372.2	1297.6	1260.2
2241.7	10°	2234.0	2190.1	2037.5	1798.2	1541.3	1315.1	1110.9	969.3	890.3	853.0
2264.7	12.5°	2252.6	2189.0	1951.8	1608.2	1260.2	983.6	793.7	723.4	701.5	693.8
2302.0	15°	2287.8	2192.3	1844.3	1390.9	980.3	743.2	674.0	672.9	677.3	675.1
2359.1	17.5°	2336.1	2195.5	1722.4	1160.3	756.4	655.4	652.1	662.0	668.5	665.3
2430.5	20°	2398.6	2208.7	1592.9	932.0	649.9	633.4	641.1	649.9	655.4	649.9
2526.0	22.5°	2486.5	2231.8	1451.3	748.7	615.9	620.2	626.8	636.7	642.2	634.5
2647.8	25°	2594.0	2268.0	1311.8	651.0	599.4	604.9	614.8	625.7	632.3	624.6
2801.5	27.5°	2733.5	2326.2	1183.4	629.0	582.9	586.2	600.5	616.9	625.7	615.9
3020.0	30°	2935.4	2421.7	1072.5	638.9	573.0	565.4	585.1	608.2	618.0	609.3
3317.5	32.5°	3203.3	2556.7	1004.5	654.3	568.6	541.2	559.9	589.5	606.0	600.5
3706.1	35°	3554.6	2762.0	978.1	671.8	565.4	516.0	529.1	561.0	589.5	595.0
4195.7	37.5°	3980.5	3047.4	985.8	679.5	555.5	495.1	501.7	529.1	566.5	584.0
4746.8	40°	4464.6	3380.0	1029.7	671.8	544.5	477.5	478.6	499.5	532.4	558.8
5339.6	42.5°	4964.1	3768.7	1110.9	643.3	534.6	462.2	458.9	473.1	495.1	513.8
5931.3	45°	5439.5	4168.2	1191.1	603.8	522.5	446.8	439.1	444.6	449.0	456.7
6507.6	47.5°	5854.4	4449.3	1168.0	567.5	506.1	429.2	416.1	413.9	400.7	399.6
7022.5	50°	6140.9	4510.7	1037.4	531.3	481.9	409.5	388.6	375.4	352.4	341.4
7407.8	52.5°	6232.1	4268.1	847.5	495.1	442.4	383.1	353.5	332.6	304.1	294.2
7629.5	55°	6111.3	3792.8	677.3	451.2	387.5	348.0	315.1	287.6	264.6	252.5
7653.7	57.5°	5816.0	3187.9	535.7	399.6	329.3	308.5	275.5	248.1	228.3	216.3
7385.8	60°	5326.4	2531.5	423.7	338.1	281.0	265.7	231.6	214.1	196.5	182.2
6694.2	62.5°	4583.2	1806.9	332.6	267.9	234.9	217.4	197.6	184.4	163.6	143.8
5450.4	65°	3576.5	1105.5	256.9	196.5	188.8	180.0	168.0	155.9	130.6	110.9
3555.7	67.5°	2255.9	523.6	183.3	148.2	149.3	144.9	139.4	129.5	110.9	93.3
1592.9	70°	993.5	253.6	120.8	113.1	110.9	110.9	115.3	112.0	94.4	77.9
553.3	72.5°	338.1	136.1	90.0	85.6	80.1	79.0	96.6	93.3	75.7	60.4
275.5	75°	176.7	91.1	65.9	61.5	48.3	58.2	76.8	72.5	53.8	39.5
182.2	77.5°	115.3	64.8	45.0	39.5	27.4	38.4	57.1	50.5	31.8	19.8
119.7	80°	72.5	42.8	26.3	18.7	13.2	20.9	30.7	22.0	12.1	4.4
70.3	82.5°	38.4	22.0	9.9	6.6	5.5	6.6	7.7	5.5	2.2	0.0
36.2	85°	15.4	7.7	3.3	2.2	1.1	0.0	2.2	1.1	0.0	0.0
6.6	87.5°	5.5	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>
2171.4
2028.7
1698.3
1265.7
854.1
691.6
674.0
664.2
648.8
633.4
623.5
615.9
608.2
600.5
595.0
588.4
567.5
521.4
461.1
398.5
342.5
293.1
252.5
214.1
178.9
140.5
107.6
91.1
74.6
57.1
36.2
17.6
3.3
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0.0

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