

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: P941589

Luminaire Tested: **GALN-SB5A-940-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-940-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16229 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

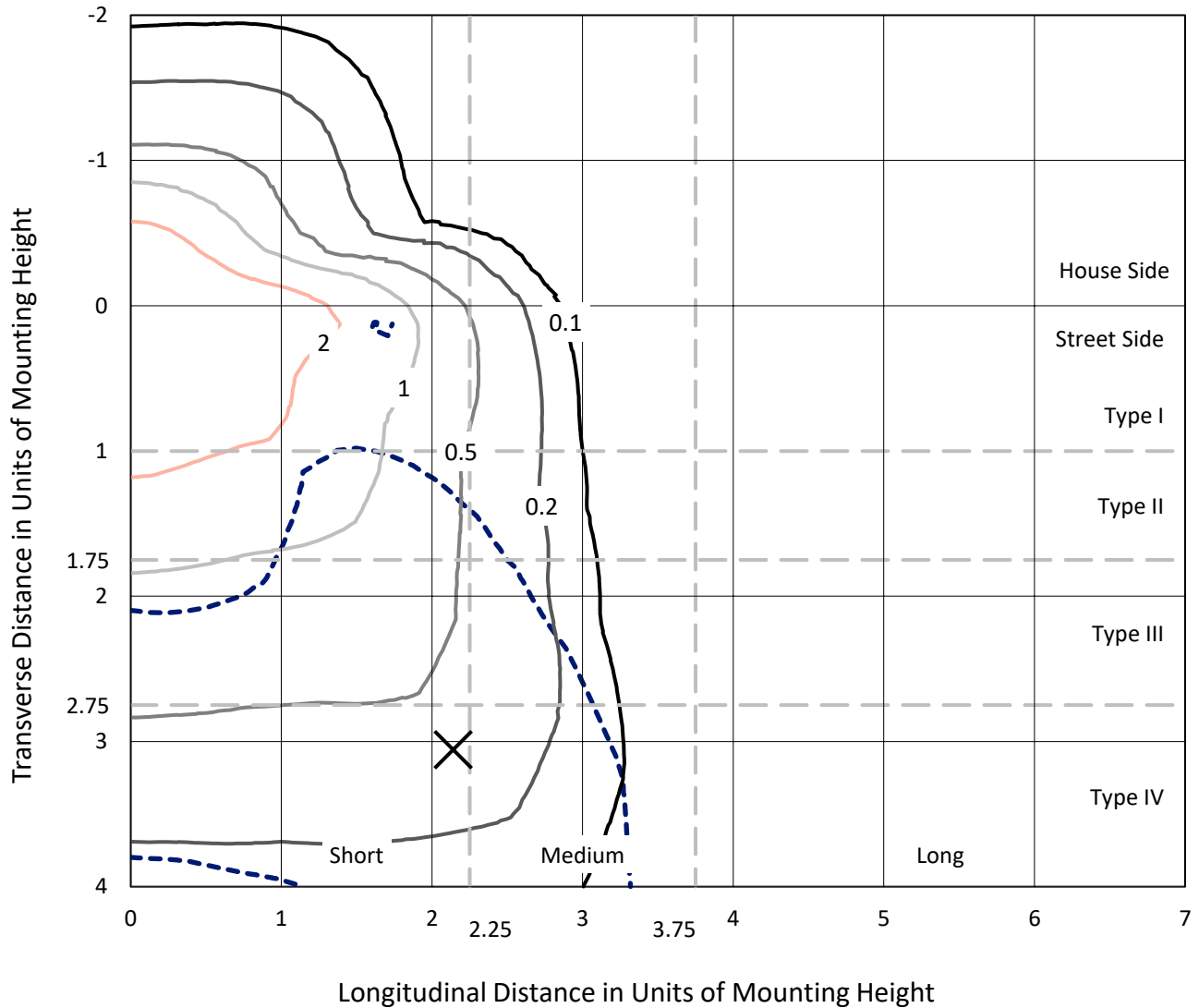
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

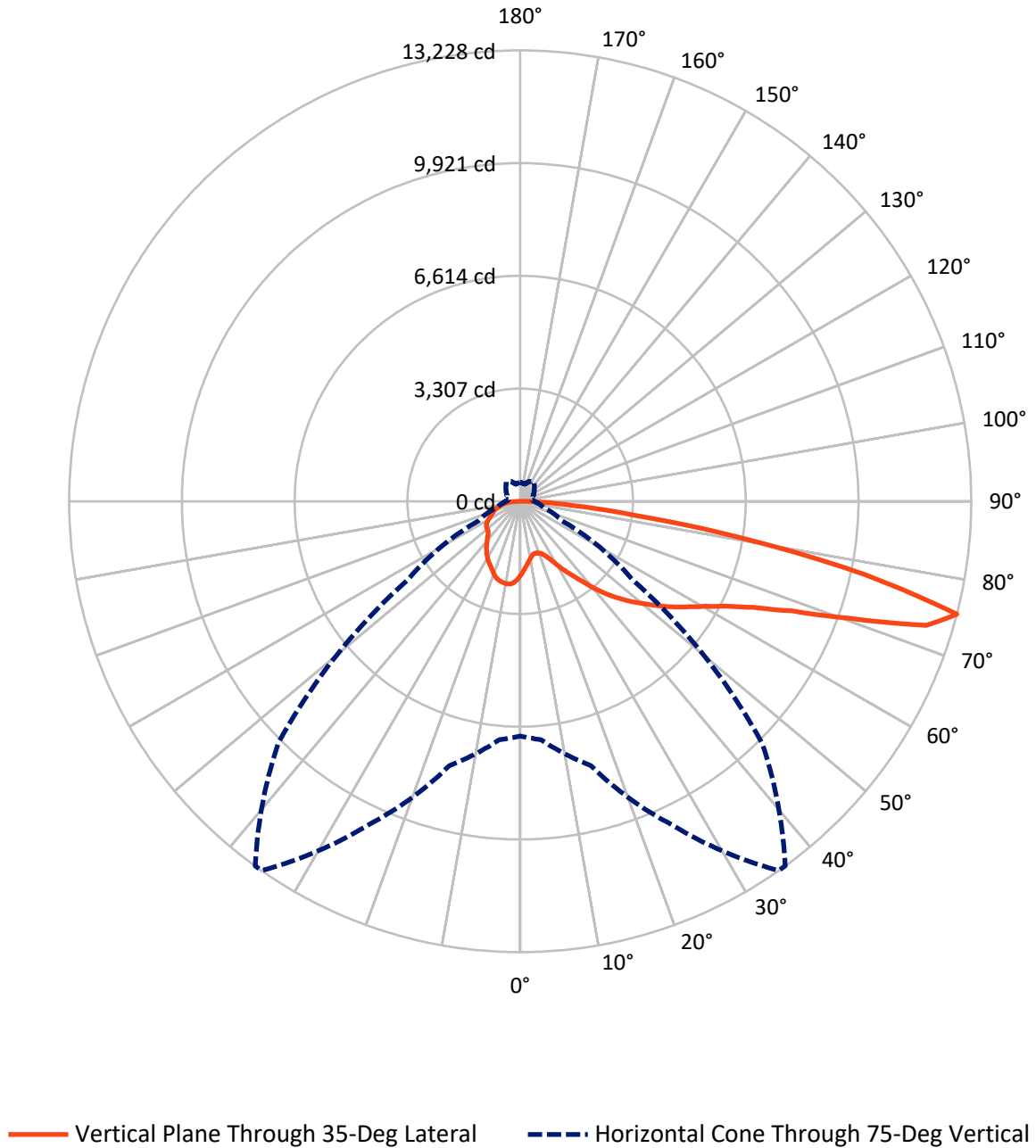
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3862.1	0.0	3862.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12366.9	0.0	12366.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	16229.0	0.0	16229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.3
10°-20°	590.6	3.6
20°-30°	991.8	6.1
30°-40°	1541.4	9.5
40°-50°	2287.8	14.1
50°-60°	3158.5	19.5
60°-70°	3831.9	23.6
70°-80°	3166.8	19.5
80°-90°	455.5	2.8
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°	16229.0	100.0
0°-180°	16229.0	100.0

Coefficient of Utilization



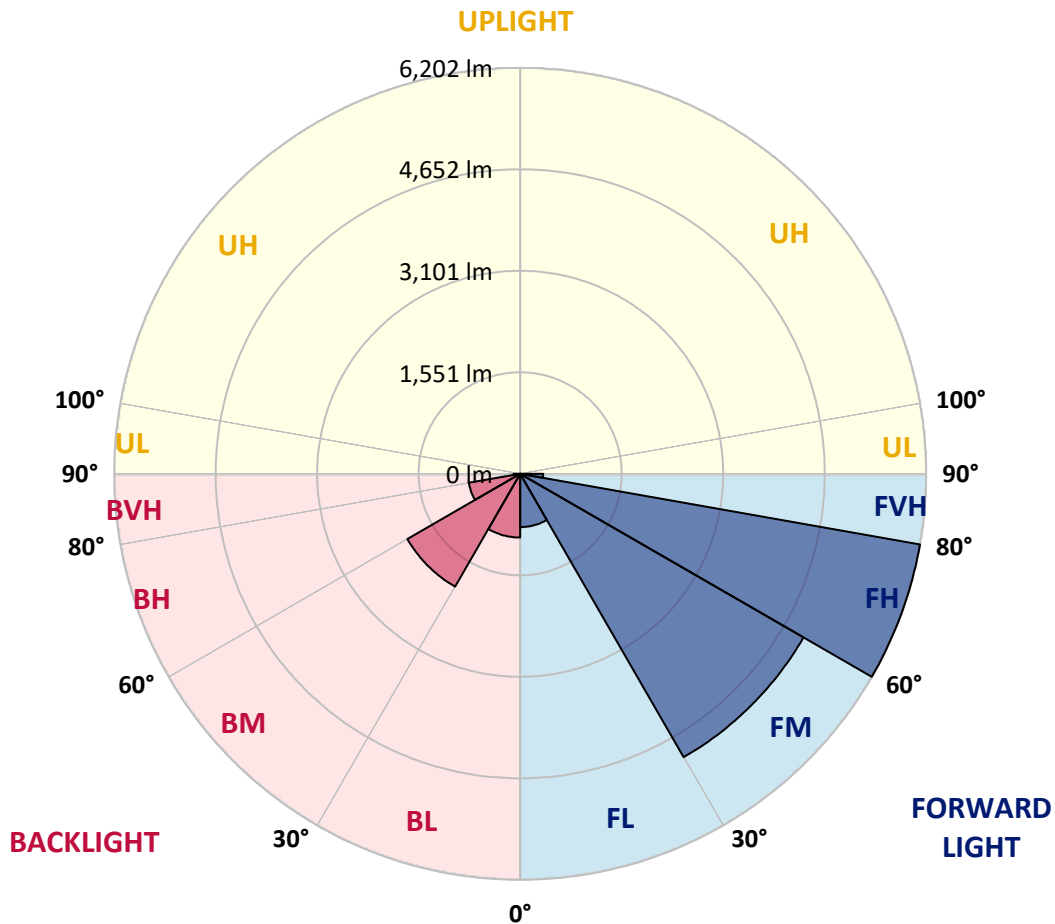
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.9	5.0			
FM (30°-60°)	4997.7	30.8			
FH (60°-80°)	6202.5	38.2			G3/7500
FVH (80°-90°)	352.9	2.2			G3/500
BL (0°-30°)	973.3	6.0	B2/1000		
BM (30°-60°)	1990.0	12.3	B2/2500		
BH (60°-80°)	796.2	4.9	B2/1000		G2/1000
BVH (80°-90°)	102.6	0.6			G2/225
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°	35°	36°	45°	55°	65°	75°
0°	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6
2.5°	1994.2	2006.5	2011.7	2009.1	2022.3	2020.5	2038.9	2061.7	2093.3	2124.0
5°	1840.6	1853.8	1865.2	1875.7	1901.2	1909.1	1938.0	1981.9	2039.8	2098.6
7.5°	1697.6	1709.0	1726.6	1745.9	1788.9	1796.8	1845.0	1913.5	1994.2	2080.2
10°	1581.0	1592.4	1610.8	1632.7	1686.2	1695.9	1757.3	1848.5	1953.8	2062.6
12.5°	1530.9	1534.5	1545.0	1566.9	1613.4	1619.6	1687.1	1791.5	1914.3	2049.4
15°	1528.3	1535.3	1536.2	1547.6	1586.2	1588.8	1651.1	1754.7	1889.8	2046.8
17.5°	1554.6	1559.9	1552.0	1559.0	1591.5	1595.9	1645.0	1737.1	1881.9	2058.2
20°	1624.8	1629.2	1605.5	1595.9	1619.6	1623.1	1671.3	1748.5	1889.8	2081.9
22.5°	1774.0	1776.6	1718.7	1679.2	1681.0	1682.7	1724.8	1795.0	1920.5	2124.9
25°	2006.5	2004.7	1912.6	1836.3	1792.4	1782.7	1810.8	1870.5	1972.2	2181.9
27.5°	2278.4	2265.3	2173.2	2059.1	1963.5	1949.4	1943.3	1968.7	2045.9	2257.4
30°	2585.5	2573.2	2474.1	2324.9	2192.5	2169.6	2111.7	2098.6	2155.6	2360.0
32.5°	2922.4	2914.5	2796.1	2615.3	2438.1	2411.8	2314.4	2279.3	2324.1	2515.3
35°	3204.9	3197.9	3099.6	2913.6	2696.9	2664.5	2565.3	2525.8	2548.7	2714.5
37.5°	3460.2	3456.7	3372.5	3226.0	3002.2	2962.8	2851.3	2838.2	2833.8	2976.8
40°	3697.1	3688.3	3600.6	3523.4	3357.6	3321.6	3223.3	3211.9	3178.6	3299.6
42.5°	3959.4	3936.6	3809.4	3773.4	3728.7	3698.8	3640.1	3641.8	3568.1	3663.7
45°	4173.5	4160.3	4029.6	4008.5	4056.8	4044.5	4095.4	4108.5	3965.5	4045.4
47.5°	4403.3	4391.0	4280.5	4265.6	4396.3	4399.8	4579.7	4584.1	4353.3	4441.9
50°	4686.7	4669.2	4559.5	4577.9	4724.4	4737.6	5066.6	5036.8	4710.4	4844.6
52.5°	4873.6	4884.1	4860.4	4890.3	5090.3	5102.6	5545.6	5469.3	5064.0	5242.1
55°	5011.3	5032.4	5106.1	5174.5	5476.3	5488.6	5997.4	5880.8	5357.0	5610.5
57.5°	5188.5	5158.7	5296.5	5429.8	5843.0	5875.5	6437.0	6277.3	5616.7	5928.1
60°	5443.0	5421.9	5528.9	5726.3	6253.6	6305.4	6902.0	6634.4	5807.1	6179.9
62.5°	5958.8	5906.2	5922.9	6097.5	6771.3	6839.7	7426.6	6945.8	5901.8	6278.2
65°	6730.0	6639.7	6555.4	6676.5	7500.3	7567.9	8018.8	7190.6	5866.7	6087.8
67.5°	7701.2	7611.7	7508.2	7622.3	8574.2	8627.7	8749.6	7328.4	5590.4	5354.4
70°	8502.2	8468.9	8592.6	9062.0	10289.4	10291.1	9686.6	7214.3	4833.2	3796.2
72.5°	8396.1	8375.9	9027.7	10478.9	12451.1	12404.6	10573.6	6351.0	3255.8	1712.6
75°	6887.9	7018.7	8028.5	10453.4	13227.5	13221.4	10030.5	4037.5	1346.7	709.8
77.5°	3693.6	3900.6	5212.2	7717.9	10326.2	10481.5	7052.0	1412.5	578.2	454.5
80°	1204.6	1385.3	2077.5	3929.6	6709.8	6680.9	3022.4	554.5	395.7	322.0
82.5°	511.5	532.5	928.2	1855.6	3443.5	3390.0	962.4	318.5	278.1	220.2
85°	200.0	223.7	409.7	858.0	1491.5	1459.0	347.4	157.9	178.1	143.9
87.5°	65.8	79.8	146.5	293.9	464.1	447.4	85.1	54.4	77.2	65.8
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°
2162.6	0°	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6
2168.8	2.5°	2181.0	2195.1	2211.8	2236.3	2257.4	2274.9	2293.3	2304.8	2309.1	2322.3
2172.3	5°	2196.8	2227.5	2268.8	2309.1	2348.6	2372.3	2393.4	2403.9	2413.5	2420.6
2181.9	7.5°	2223.2	2262.6	2327.6	2380.2	2413.5	2432.8	2446.9	2443.4	2446.9	2448.6
2192.5	10°	2246.0	2301.2	2378.4	2428.5	2453.9	2454.8	2451.3	2439.0	2432.8	2433.7
2208.2	12.5°	2273.2	2334.6	2417.9	2460.0	2467.1	2447.8	2432.8	2411.8	2403.9	2400.4
2231.9	15°	2310.0	2380.2	2460.9	2476.7	2459.2	2434.6	2409.2	2374.9	2357.4	2343.4
2272.3	17.5°	2354.8	2432.0	2494.3	2482.9	2445.1	2404.8	2363.5	2311.8	2275.8	2260.9
2327.6	20°	2417.1	2486.4	2519.7	2469.7	2412.7	2351.3	2281.1	2217.9	2184.6	2169.6
2397.7	22.5°	2492.5	2559.2	2544.3	2446.9	2366.2	2267.9	2180.2	2133.7	2117.0	2106.5
2488.1	25°	2582.9	2639.9	2561.8	2413.5	2289.8	2157.4	2089.8	2074.9	2067.0	2059.1
2598.7	27.5°	2700.4	2731.1	2575.0	2364.4	2170.5	2039.8	2015.2	2017.9	2015.2	2002.1
2752.2	30°	2855.7	2849.6	2587.3	2284.6	2033.7	1933.6	1935.4	1946.8	1948.6	1939.8
2966.3	32.5°	3060.1	2997.8	2593.4	2181.0	1902.9	1840.6	1842.4	1854.7	1863.5	1848.5
3246.1	35°	3307.5	3170.7	2583.7	2051.2	1802.0	1752.0	1738.9	1742.4	1745.0	1731.0
3585.7	37.5°	3596.2	3364.6	2540.8	1907.3	1718.7	1665.2	1637.1	1613.4	1599.4	1586.2
3969.9	40°	3912.9	3576.0	2461.8	1766.9	1625.7	1573.1	1530.9	1486.2	1438.8	1421.3
4377.0	42.5°	4244.5	3793.6	2366.2	1632.7	1518.7	1475.7	1430.9	1366.0	1294.9	1259.0
4799.9	45°	4588.4	4016.4	2272.3	1500.2	1409.0	1390.6	1338.8	1260.7	1183.5	1137.9
5223.6	47.5°	4925.3	4227.0	2134.5	1366.9	1306.3	1326.5	1286.2	1214.2	1128.2	1056.3
5643.9	50°	5247.3	4424.4	1909.1	1231.8	1223.0	1307.2	1268.6	1165.1	1066.8	974.7
6056.2	52.5°	5566.7	4584.1	1620.4	1108.9	1178.3	1302.0	1245.8	1131.8	1011.6	915.1
6444.0	55°	5837.8	4666.5	1342.3	1003.7	1113.3	1257.2	1218.6	1092.3	933.5	830.8
6709.8	57.5°	5992.2	4599.9	1110.7	900.1	1023.8	1183.5	1172.1	1008.1	840.5	761.5
6761.6	60°	5925.5	4329.6	921.2	809.8	938.7	1103.7	1091.4	924.7	769.4	694.8
6484.4	62.5°	5557.9	3814.6	771.2	730.8	861.5	1022.1	1010.7	860.7	715.0	643.1
5748.3	65°	4817.4	3103.1	654.5	665.0	783.5	923.8	940.5	807.1	672.0	601.8
4447.2	67.5°	3674.3	2247.7	563.2	608.0	707.1	827.3	875.6	768.5	636.1	569.4
2573.2	70°	2094.2	1276.5	486.0	552.7	639.6	737.8	825.6	737.8	597.5	542.2
964.2	72.5°	794.0	586.1	420.2	497.4	574.7	662.4	770.3	689.6	552.7	511.5
498.3	75°	423.8	357.1	353.6	432.5	500.1	588.7	701.0	642.2	519.4	540.4
344.8	77.5°	288.6	252.7	295.7	370.2	418.5	507.1	627.3	570.3	450.1	448.3
238.6	80°	200.0	179.0	240.4	298.3	323.7	426.4	547.5	489.6	366.7	342.2
147.4	82.5°	120.2	116.7	179.9	222.8	229.0	329.0	453.6	410.6	300.0	261.4
87.7	85°	65.8	69.3	114.9	130.7	133.4	229.9	355.3	317.6	230.7	193.9
31.6	87.5°	18.4	23.7	42.1	51.8	64.0	119.3	211.4	188.6	115.8	80.7
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>
2162.6
2321.4
2422.3
2451.3
2435.5
2398.6
2347.7
2261.8
2167.9
2108.2
2059.1
2004.7
1944.2
1855.6
1740.6
1595.0
1429.2
1263.4
1134.4
1048.4
966.8
904.5
822.1
751.0
684.3
631.7
590.4
558.9
535.2
504.5
558.0
413.2
327.2
263.2
195.6
80.7
0.0

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