

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: P941077

Luminaire Tested: **GALN-SB4B-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16365 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

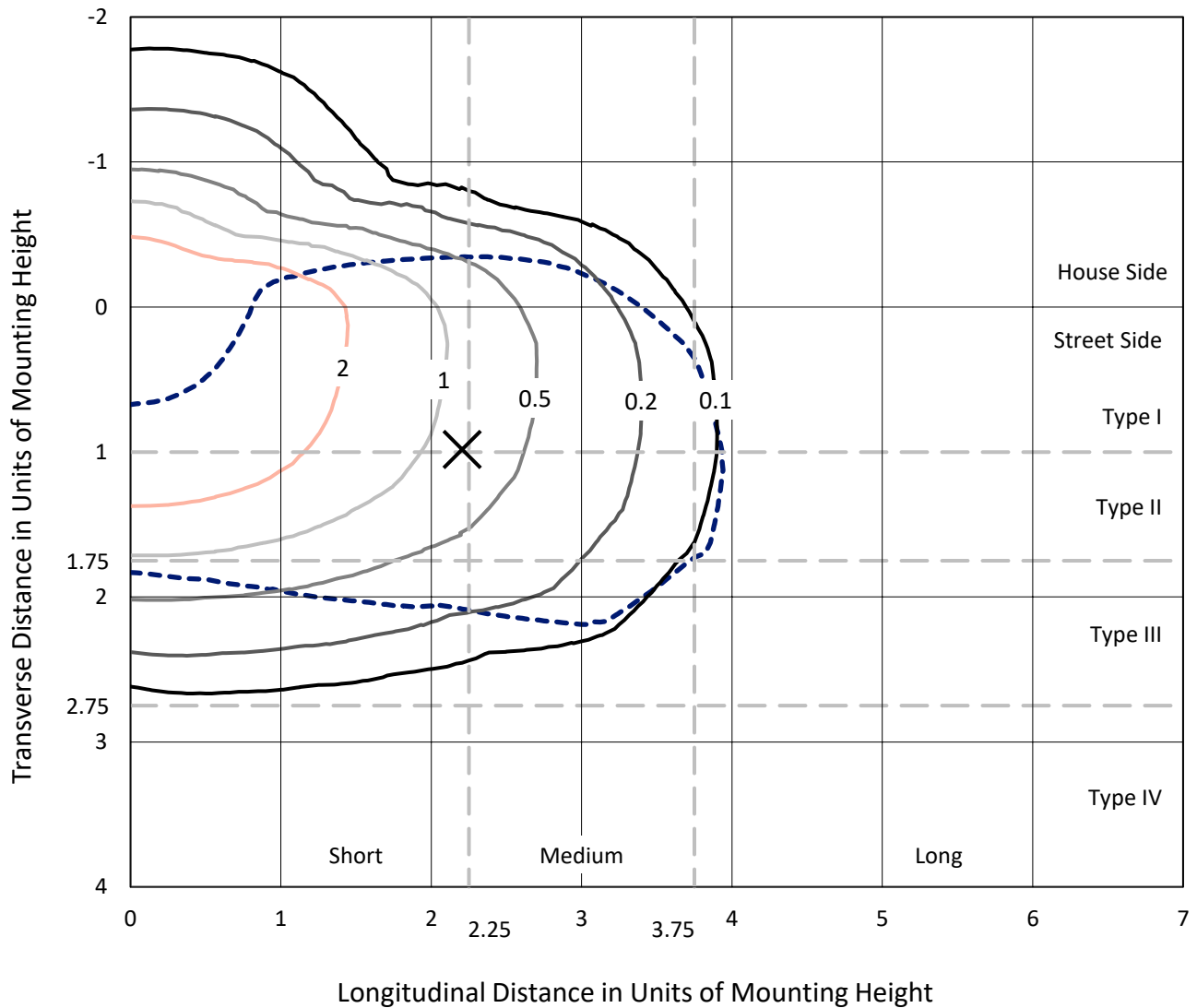
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

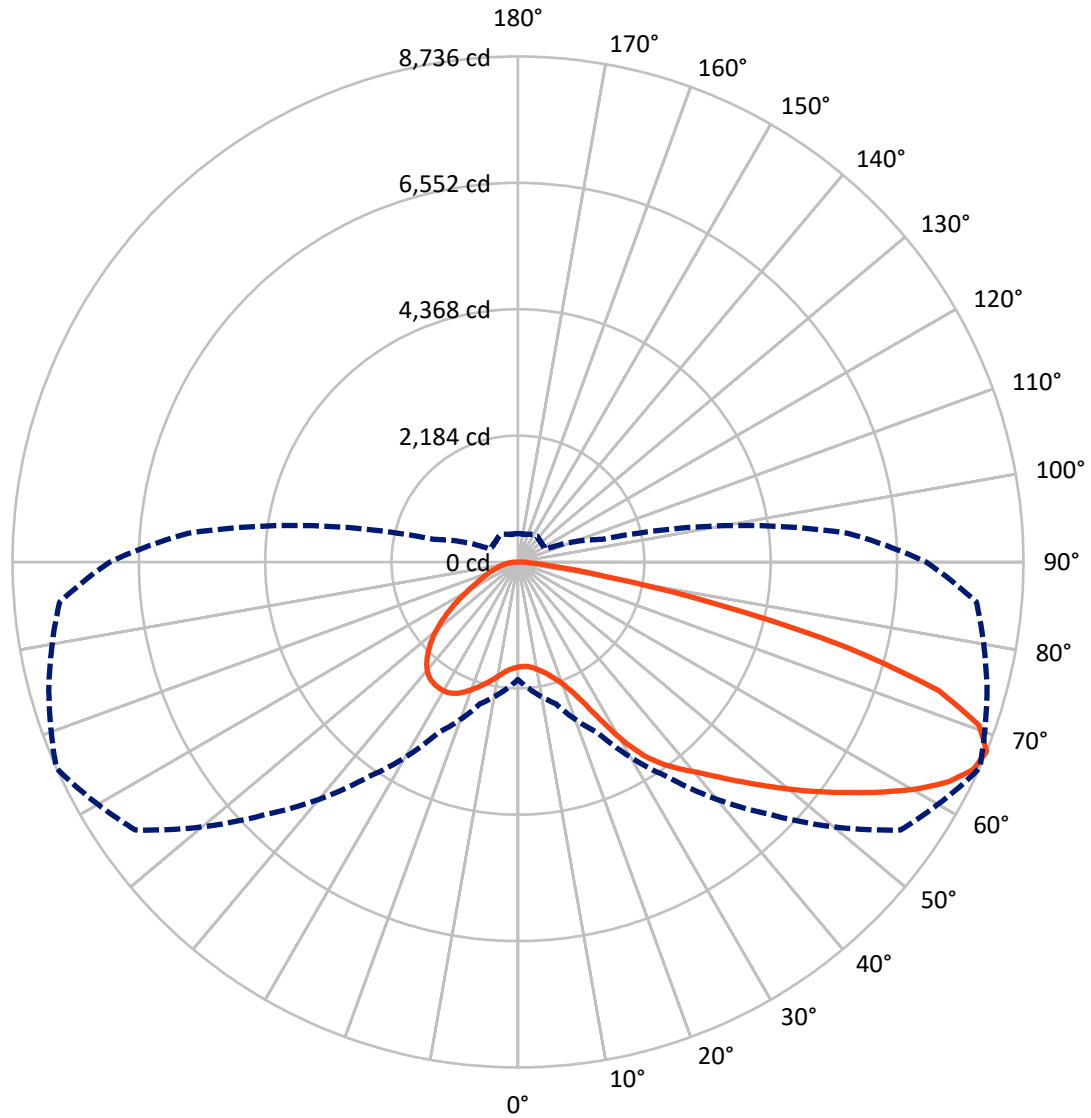
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4069.1	0.0	4069.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12295.9	0.0	12295.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	16365.0	0.0	16365.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.1
10°-20°	594.6	3.6
20°-30°	1146.0	7.0
30°-40°	2009.3	12.3
40°-50°	2987.2	18.3
50°-60°	3786.6	23.1
60°-70°	3705.1	22.6
70°-80°	1767.4	10.8
80°-90°	188.9	1.2
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°	16365.0	100.0
0°-180°	16365.0	100.0



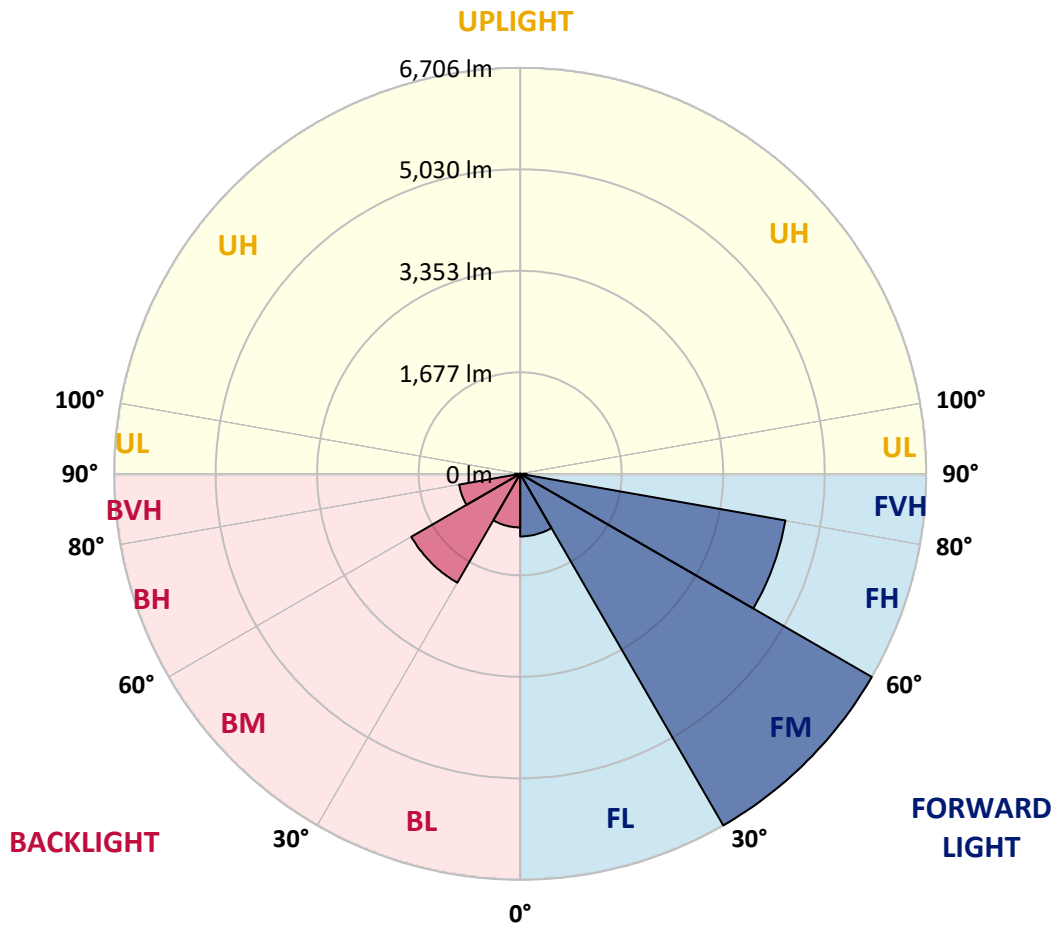
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.1	6.3			
FM (30°-60°)	6706.2	41.0			
FH (60°-80°)	4448.5	27.2			G2/5000
FVH (80°-90°)	107.1	0.7			G2/225
BL (0°-30°)	886.4	5.4	B2/1000		
BM (30°-60°)	2076.9	12.7	B2/2500		
BH (60°-80°)	1024.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	81.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1
2.5°	1796.2	1806.5	1803.9	1799.6	1798.8	1800.5	1803.1	1805.6	1804.8	1809.1
5°	1791.0	1801.3	1800.5	1800.5	1803.9	1810.8	1815.1	1819.4	1815.1	1820.3
7.5°	1794.5	1802.2	1805.6	1809.1	1817.7	1830.6	1840.9	1850.3	1845.2	1851.2
10°	1838.3	1844.3	1847.8	1847.8	1853.8	1868.4	1878.7	1895.9	1891.6	1901.1
12.5°	1918.3	1924.3	1924.3	1920.9	1925.2	1934.6	1938.1	1957.0	1949.2	1964.7
15°	2016.3	2028.3	2018.9	2012.9	2014.6	2024.0	2023.2	2037.8	2030.1	2042.9
17.5°	2124.6	2140.1	2124.6	2123.8	2120.3	2130.7	2131.5	2144.4	2130.7	2140.1
20°	2252.7	2274.2	2261.3	2265.6	2257.9	2262.2	2266.5	2285.4	2263.9	2270.8
22.5°	2433.3	2459.1	2445.3	2461.7	2456.5	2453.1	2452.2	2485.8	2452.2	2454.8
25°	2696.4	2727.4	2703.3	2725.7	2725.7	2736.8	2749.7	2792.7	2736.8	2720.5
27.5°	3085.1	3116.0	3068.7	3082.5	3078.2	3105.7	3091.9	3198.6	3138.4	3111.7
30°	3552.8	3607.8	3518.4	3515.0	3510.7	3554.5	3574.3	3644.8	3583.8	3557.1
32.5°	4058.4	4116.0	4009.4	3978.4	3962.1	3988.7	3972.4	4029.1	3987.0	3945.7
35°	4593.2	4649.9	4548.5	4488.3	4423.0	4367.1	4308.6	4323.2	4283.7	4220.9
37.5°	5098.8	5202.8	5095.3	5030.8	4910.5	4801.3	4637.9	4570.0	4533.0	4475.4
40°	5613.8	5673.1	5591.5	5536.4	5405.7	5234.6	4973.2	4829.6	4779.8	4723.9
42.5°	5993.0	6049.7	6005.9	5968.1	5865.7	5667.1	5329.2	5149.5	5077.3	5014.5
45°	6293.9	6336.1	6308.6	6322.3	6278.5	6085.9	5698.1	5492.6	5417.8	5341.2
47.5°	6415.2	6459.9	6503.7	6585.4	6660.2	6518.3	6094.5	5864.0	5784.9	5706.7
50°	6401.4	6447.0	6574.2	6747.9	6980.1	6932.8	6512.3	6259.5	6186.5	6097.0
52.5°	6291.4	6342.9	6506.3	6795.2	7164.9	7243.2	6937.9	6668.0	6599.2	6492.6
55°	6002.5	6033.4	6278.5	6687.7	7208.8	7459.9	7355.0	7103.0	7034.2	6885.5
57.5°	5466.8	5511.5	5868.3	6398.0	7098.7	7606.9	7721.2	7560.5	7494.3	7280.2
60°	4767.7	4839.1	5247.5	5911.3	6818.4	7606.0	8054.0	8010.1	7955.1	7668.8
62.5°	3976.7	4059.2	4452.2	5223.4	6328.3	7390.2	8262.1	8386.8	8358.4	8027.3
65°	3054.1	3110.9	3502.1	4333.5	5565.7	6926.8	8286.2	8643.8	8649.0	8299.9
67.5°	2033.5	2196.9	2536.5	3251.9	4544.2	6169.3	8074.6	8686.0	8735.8	8393.6
70°	992.2	1207.2	1540.0	2113.5	3251.9	5007.6	7521.8	8340.3	8451.2	8120.2
72.5°	411.9	481.5	662.9	1043.0	1866.7	3379.1	6410.9	7403.1	7608.6	7195.0
75°	277.7	300.9	379.2	534.8	850.4	1666.3	4623.3	5520.1	5851.1	5434.1
77.5°	214.1	228.7	276.0	374.0	505.6	630.3	2474.6	3326.7	3497.8	3238.1
80°	168.5	179.7	206.4	272.6	358.5	337.1	843.5	1507.3	1606.2	1347.3
82.5°	146.2	150.5	147.9	184.9	238.2	196.9	276.9	556.3	613.9	445.4
85°	105.8	117.8	123.0	114.4	126.4	99.7	113.5	196.9	216.7	193.5
87.5°	43.0	63.6	78.2	73.9	46.4	28.4	35.3	57.6	66.2	72.2
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°
1815.1	0°	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1
1816.0	2.5°	1816.8	1822.8	1827.1	1832.3	1835.7	1840.9	1851.2	1857.2	1858.1	1862.4
1829.7	5°	1833.2	1841.7	1851.2	1865.0	1880.4	1893.3	1913.1	1926.9	1932.0	1936.3
1863.2	7.5°	1868.4	1880.4	1897.6	1921.7	1944.1	1961.3	1985.3	2001.7	2018.0	2024.0
1916.6	10°	1920.9	1938.1	1963.0	1995.7	2019.7	2042.1	2067.0	2080.8	2097.1	2104.0
1980.2	12.5°	1986.2	2004.3	2036.9	2082.5	2104.9	2120.3	2128.9	2125.5	2128.9	2135.0
2056.7	15°	2061.0	2080.8	2117.8	2166.8	2182.2	2168.5	2149.6	2132.4	2129.8	2131.5
2149.6	17.5°	2149.6	2164.2	2207.2	2248.4	2237.3	2180.5	2139.2	2111.7	2098.0	2093.7
2268.2	20°	2273.4	2273.4	2308.6	2334.4	2259.6	2163.3	2098.8	2054.1	2025.8	2013.7
2429.9	22.5°	2423.9	2410.1	2432.5	2414.4	2255.3	2115.2	2025.8	1948.4	1905.4	1888.2
2656.0	25°	2614.7	2598.4	2592.4	2480.6	2224.4	2038.6	1893.3	1799.6	1761.8	1752.3
2981.9	27.5°	2902.8	2861.5	2783.3	2516.7	2167.6	1918.3	1738.6	1651.7	1630.2	1631.1
3400.6	30°	3286.3	3203.7	3012.0	2522.7	2074.8	1748.0	1580.4	1518.5	1508.1	1512.4
3752.3	32.5°	3641.4	3563.1	3245.8	2495.2	1932.0	1581.2	1438.5	1397.2	1381.7	1386.9
4020.6	35°	3920.0	3898.5	3462.5	2456.5	1756.6	1424.7	1311.2	1276.0	1245.9	1239.0
4273.3	37.5°	4183.1	4174.5	3625.0	2402.4	1582.9	1313.8	1208.9	1162.5	1118.6	1094.6
4552.8	40°	4472.0	4463.4	3731.6	2319.0	1429.0	1217.5	1116.9	1055.9	1001.7	957.8
4869.2	42.5°	4797.0	4746.2	3782.4	2199.4	1298.3	1135.8	1042.1	959.6	888.2	847.8
5226.9	45°	5152.1	5037.7	3781.5	2047.2	1188.3	1061.0	962.1	845.2	779.0	741.2
5594.0	47.5°	5528.7	5316.3	3735.1	1878.7	1081.7	978.5	838.3	748.9	705.1	681.8
5993.0	50°	5917.3	5576.8	3656.0	1685.3	972.5	884.8	760.9	699.9	666.4	644.9
6388.5	52.5°	6282.8	5813.3	3560.5	1466.0	861.5	793.6	726.6	679.3	644.0	619.9
6772.0	55°	6622.4	6017.1	3425.6	1241.6	771.3	732.6	710.2	670.7	630.3	601.9
7161.5	57.5°	6924.2	6149.5	3192.5	1030.9	706.8	690.4	693.0	656.0	609.6	585.5
7545.0	60°	7175.3	6246.6	2847.7	835.8	654.3	649.2	666.4	628.5	574.4	546.8
7869.1	62.5°	7325.7	6244.9	2424.7	684.4	609.6	611.3	631.1	594.1	539.1	513.3
8038.5	65°	7312.8	6091.9	1960.4	585.5	566.6	568.3	594.1	556.3	509.9	494.4
7953.4	67.5°	7054.0	5718.7	1503.8	521.1	519.3	527.1	557.2	530.5	491.8	490.1
7446.1	70°	6353.3	4944.0	1083.4	469.5	470.3	481.5	521.1	514.2	482.4	485.8
6260.4	72.5°	5094.5	3769.5	727.4	415.3	416.2	434.2	486.7	501.3	472.9	518.5
4441.9	75°	3392.9	2350.8	467.7	357.7	358.5	381.8	456.6	476.3	447.1	516.8
2311.2	77.5°	1630.2	1056.7	338.8	300.9	300.9	322.4	394.7	426.5	380.9	401.5
742.9	80°	563.2	397.2	266.5	242.5	237.3	251.9	332.8	369.7	328.5	302.7
242.5	82.5°	221.8	206.4	214.1	188.3	171.1	180.6	258.8	305.2	241.6	218.4
136.7	85°	127.3	134.1	151.3	124.7	98.9	110.9	190.0	219.3	182.3	160.8
44.7	87.5°	34.4	47.3	69.6	64.5	44.7	47.3	90.3	121.2	104.9	80.8
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>
1815.1
1861.5
1935.5
2024.9
2107.4
2136.7
2137.5
2099.7
2011.1
1885.6
1754.0
1633.7
1527.1
1393.8
1244.2
1095.4
962.1
850.4
739.5
676.7
637.1
609.6
590.7
570.1
534.8
505.6
493.5
492.7
484.9
525.4
521.1
368.0
283.7
217.5
164.2
83.4
0.0

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