

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: P946686

Luminaire Tested: **GALN-SB2B-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

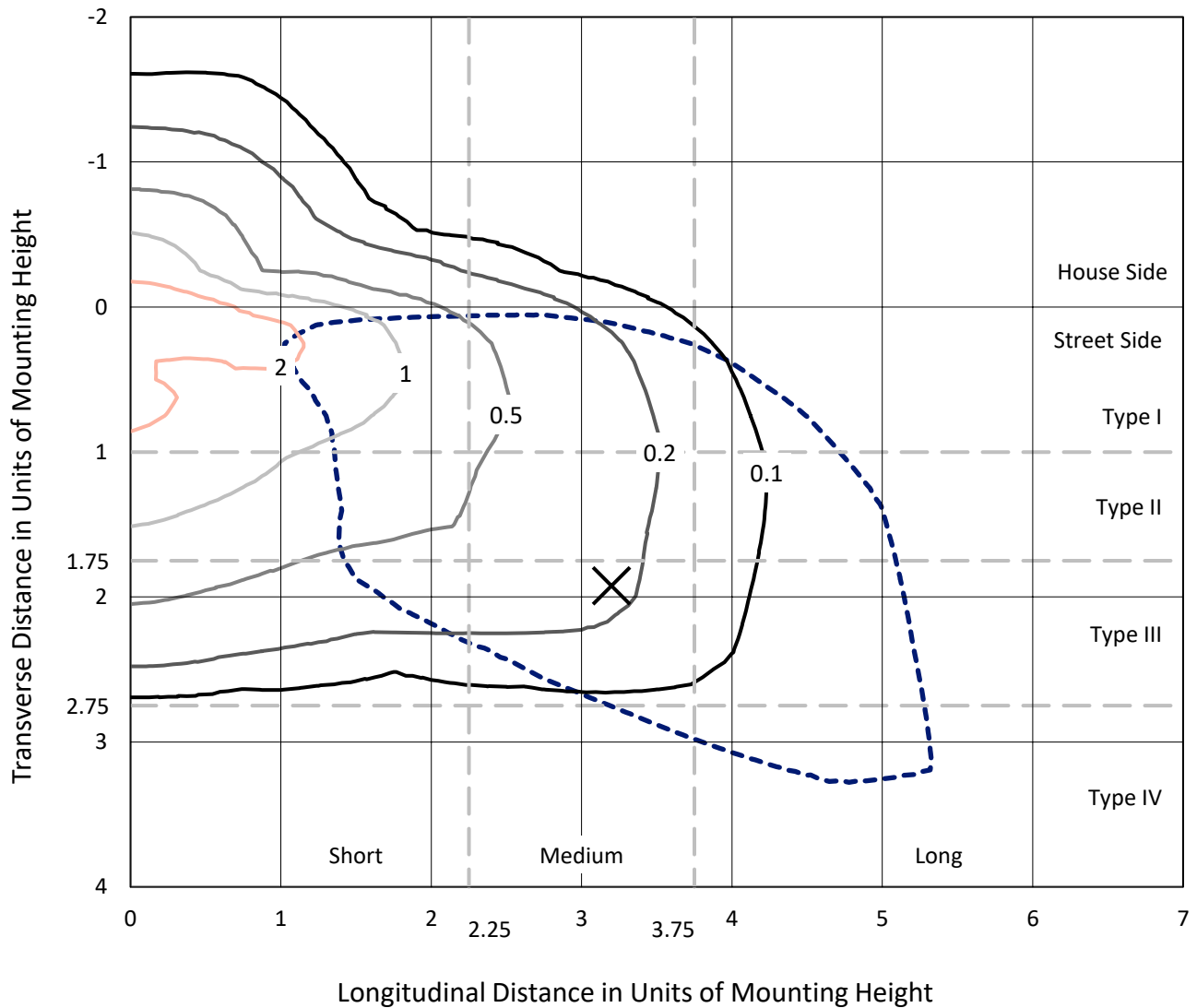
Lumens per Lamp: N/A  
Luminaire Lumens: 11006 lumens  
Efficiency: N/A  
Efficacy: 148.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

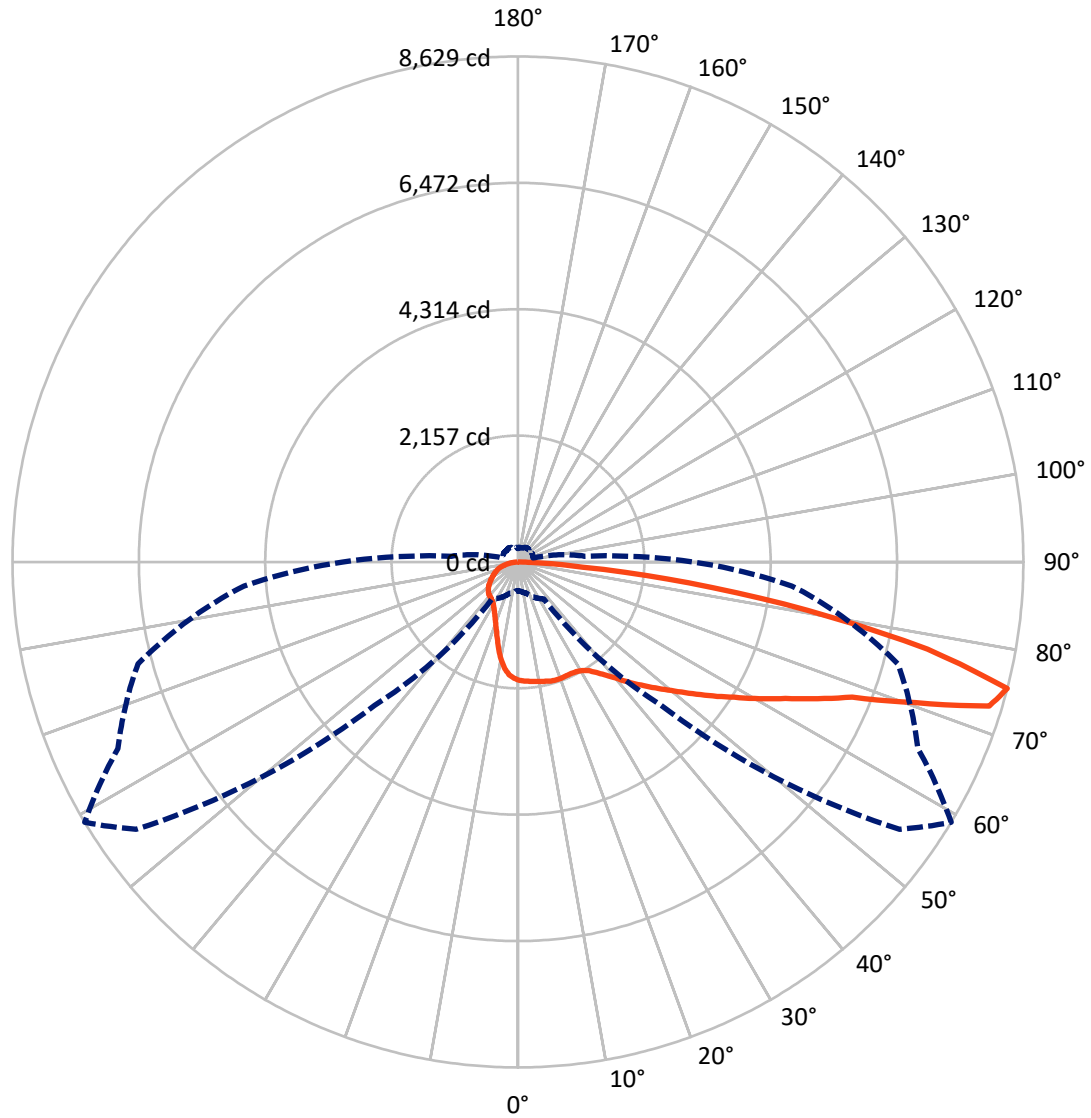
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2064.3	0.0	2064.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8941.7	0.0	8941.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	11006.0	0.0	11006.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.1	1.6
10°-20°	463.0	4.2
20°-30°	703.3	6.4
30°-40°	1045.4	9.5
40°-50°	1554.7	14.1
50°-60°	2110.3	19.2
60°-70°	2576.3	23.4
70°-80°	2021.8	18.4
80°-90°	350.2	3.2
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°	11006.0	100.0
0°-180°	11006.0	100.0

**Coefficient of Utilization**



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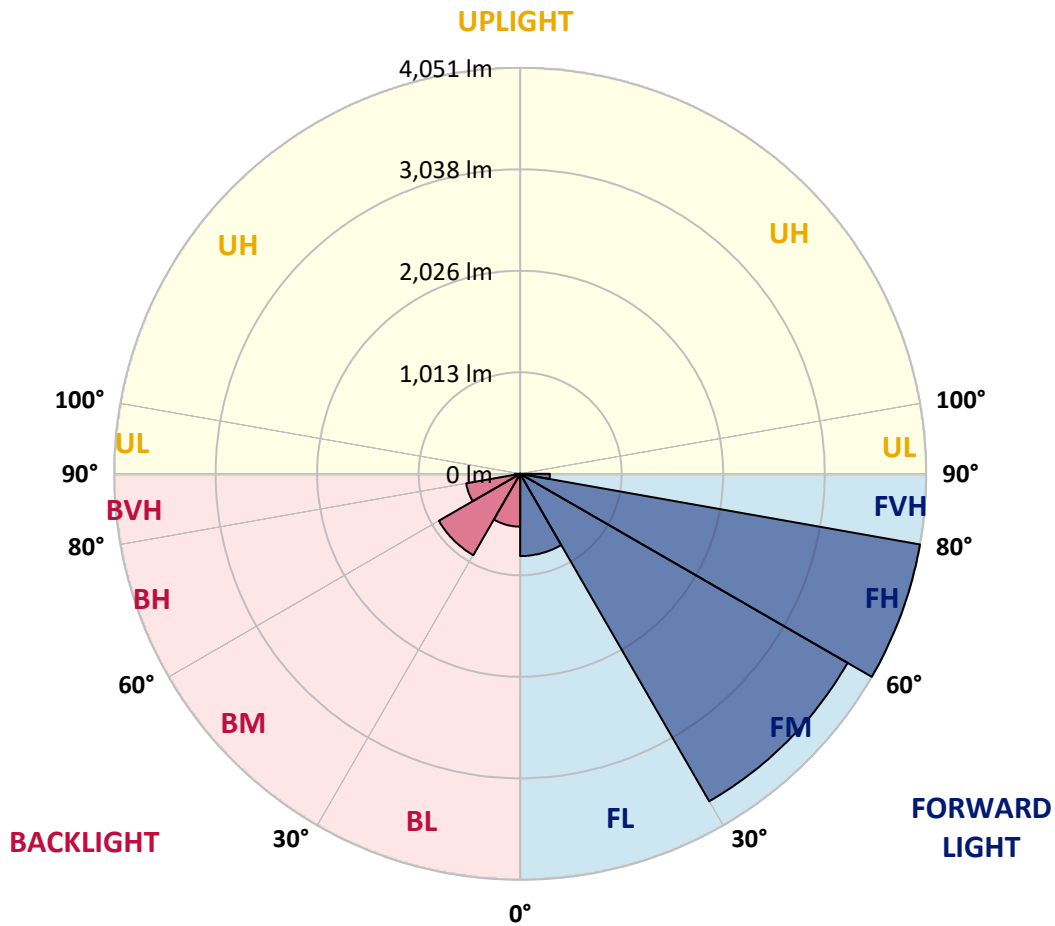
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.6	7.5			
FM	(30°-60°)	3773.3	34.3			
FH	(60°-80°)	4051.2	36.8			G2/5000
FVH	(80°-90°)	296.6	2.7			G3/500
BL	(0°-30°)	526.8	4.8	B2/1000		
BM	(30°-60°)	937.0	8.5	B1/1000		
BH	(60°-80°)	546.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	53.6	0.5			G1/100
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1
2.5°	2037.3	2030.2	2037.3	2034.3	2033.2	2030.8	2031.4	2035.5	2033.2	2036.1
5°	2023.7	2019.5	2026.6	2024.9	2032.6	2033.7	2041.4	2046.2	2049.1	2049.7
7.5°	2001.2	1997.0	2007.1	2015.4	2032.0	2036.7	2052.7	2060.4	2064.5	2071.6
10°	1918.9	1917.1	1942.0	1973.4	2012.4	2036.7	2061.0	2074.0	2080.5	2099.5
12.5°	1773.2	1775.6	1808.2	1868.6	1946.7	2024.9	2070.5	2089.4	2099.5	2123.1
15°	1634.1	1633.5	1669.0	1733.6	1843.1	1972.8	2075.2	2107.8	2124.9	2159.9
17.5°	1553.6	1551.2	1576.1	1625.2	1727.1	1892.8	2063.3	2117.8	2154.5	2198.3
20°	1538.8	1534.0	1547.1	1571.3	1643.6	1805.2	2032.6	2117.8	2178.2	2235.0
22.5°	1592.7	1585.0	1579.6	1576.7	1608.6	1733.0	1997.6	2110.7	2213.1	2287.7
25°	1701.0	1689.2	1661.9	1635.3	1625.8	1700.4	1966.8	2108.9	2265.2	2358.8
27.5°	1876.3	1861.5	1806.4	1742.4	1685.0	1717.0	1953.2	2119.6	2322.7	2434.0
30°	2093.5	2077.6	2008.3	1910.0	1807.0	1778.6	1970.4	2151.0	2396.1	2534.0
32.5°	2288.3	2270.6	2211.4	2111.3	1972.2	1885.1	2024.9	2210.8	2511.5	2673.2
35°	2461.2	2440.5	2387.2	2294.8	2174.7	2034.9	2123.1	2316.8	2675.5	2899.3
37.5°	2630.5	2606.3	2548.2	2450.6	2366.5	2234.5	2258.7	2452.9	2893.4	3174.1
40°	2820.0	2785.1	2714.6	2618.1	2536.4	2468.3	2436.9	2619.9	3114.9	3480.8
42.5°	3003.5	2970.4	2886.3	2804.0	2701.6	2682.1	2643.6	2815.3	3357.0	3817.6
45°	3201.3	3161.6	3059.8	2955.6	2891.1	2824.2	2843.7	3010.7	3594.4	4161.0
47.5°	3386.6	3342.2	3222.0	3106.0	3070.5	2943.7	3027.2	3225.6	3841.3	4509.2
50°	3486.7	3442.9	3342.8	3238.0	3210.2	3091.2	3226.2	3461.8	4100.1	4856.1
52.5°	3570.2	3522.8	3391.9	3333.9	3325.6	3251.6	3471.3	3731.8	4358.8	5162.8
55°	3659.0	3606.3	3439.3	3387.2	3425.1	3431.6	3762.0	4037.9	4632.3	5461.8
57.5°	3761.4	3694.5	3484.9	3432.2	3522.2	3642.4	4095.9	4355.2	4901.1	5738.9
60°	3857.9	3790.4	3572.5	3503.8	3627.0	3886.9	4479.0	4739.5	5205.4	5985.8
62.5°	3876.8	3821.2	3642.4	3641.8	3769.1	4172.3	4932.5	5127.3	5471.3	6229.7
65°	3548.8	3513.9	3407.9	3636.5	3972.8	4583.2	5437.5	5623.4	5809.3	6442.9
67.5°	2701.0	2705.7	2698.0	3139.1	3808.2	5173.5	6168.7	6154.5	6226.8	6682.0
70°	1235.0	1262.9	1444.0	2167.0	3050.9	5241.6	7377.7	7193.6	6750.7	6991.7
72.5°	667.3	688.6	762.6	1049.7	1834.2	4660.1	8281.2	8412.1	7447.6	7200.1
75°	489.6	501.5	553.0	667.3	770.3	3463.6	7957.4	8628.8	7534.6	6714.0
77.5°	366.5	371.8	413.9	528.7	394.3	1825.9	6358.2	7146.2	6450.0	5516.3
80°	265.8	271.8	303.1	396.7	276.5	667.8	4365.9	5016.0	4417.4	3516.3
82.5°	183.5	185.9	199.5	270.0	193.0	259.3	2477.2	2941.4	2466.0	1233.9
85°	110.7	113.7	119.6	157.5	109.5	123.1	1069.3	1106.0	737.1	294.8
87.5°	45.6	48.5	53.3	66.3	43.2	34.3	176.4	221.4	138.0	86.4
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°
2020.1	0°	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1	2020.1
2026.0	2.5°	2023.1	2018.9	2007.7	1992.3	1978.1	1960.3	1952.6	1946.1	1940.2	1928.9
2042.0	5°	2035.5	2024.3	1994.1	1955.0	1910.6	1862.0	1814.7	1782.1	1754.3	1733.6
2060.4	7.5°	2054.5	2033.2	1978.1	1898.2	1796.3	1692.1	1598.0	1531.1	1480.8	1462.4
2086.4	10°	2074.0	2048.5	1952.6	1811.7	1635.9	1475.4	1350.5	1281.8	1241.6	1228.5
2117.2	12.5°	2097.1	2059.8	1913.0	1691.5	1456.5	1280.6	1171.7	1131.4	1110.7	1103.6
2155.1	15°	2130.8	2069.3	1853.2	1541.1	1285.4	1138.5	1068.1	1040.3	1029.6	1029.0
2194.2	17.5°	2156.3	2071.0	1760.2	1380.1	1153.9	1052.7	994.7	984.0	991.1	1001.8
2232.7	20°	2184.7	2055.1	1638.2	1233.3	1061.6	977.5	953.2	960.3	977.5	992.9
2283.6	22.5°	2204.9	2026.0	1490.8	1119.0	981.6	934.3	933.1	947.9	957.4	965.1
2343.4	25°	2222.6	1976.9	1334.5	1023.1	915.9	908.2	921.3	916.5	910.0	916.5
2403.2	27.5°	2235.6	1899.3	1194.8	939.0	869.7	890.5	882.8	872.1	871.5	875.1
2473.6	30°	2231.5	1795.7	1079.9	859.1	837.2	857.3	839.0	837.2	835.4	837.2
2579.6	32.5°	2231.5	1677.9	991.7	804.0	816.5	808.8	807.0	802.8	795.7	795.1
2723.5	35°	2243.9	1560.1	915.9	774.4	799.3	780.9	782.1	772.1	757.3	750.1
2914.1	37.5°	2269.4	1465.4	840.7	760.2	769.1	768.5	763.8	746.6	720.5	698.0
3152.2	40°	2331.0	1437.5	789.2	753.7	754.9	762.0	749.6	716.4	657.2	620.5
3393.7	42.5°	2427.5	1484.3	778.0	737.7	745.4	752.5	728.2	651.3	609.2	587.3
3647.1	45°	2550.0	1566.0	802.2	714.6	722.9	735.3	663.1	626.4	607.5	608.1
3898.2	47.5°	2705.1	1651.9	847.2	694.5	690.3	697.5	619.9	597.4	571.3	577.9
4139.1	50°	2884.5	1738.9	889.9	667.3	654.2	631.1	592.1	570.8	537.6	522.2
4371.8	52.5°	3078.7	1823.0	907.0	634.1	615.2	588.5	573.1	547.1	506.8	481.3
4591.5	55°	3262.9	1899.3	888.1	594.4	576.1	555.4	553.0	537.0	493.8	458.3
4786.8	57.5°	3436.9	1963.3	840.7	554.2	536.4	524.0	540.0	532.3	477.8	432.2
4971.6	60°	3584.4	2007.1	772.1	513.3	500.9	494.4	518.6	516.3	455.3	404.4
5137.4	62.5°	3701.6	2024.3	696.3	474.2	471.3	459.4	489.0	489.0	426.9	377.1
5283.0	65°	3793.4	2007.7	619.3	435.8	441.7	423.9	452.9	449.4	396.7	352.9
5450.6	67.5°	3874.5	1953.2	534.0	397.9	411.5	389.0	415.0	406.7	363.5	328.6
5595.6	70°	3910.6	1826.5	436.9	360.0	376.6	354.6	377.1	361.8	326.2	302.5
5436.3	72.5°	3620.5	1518.1	344.0	320.3	334.5	316.8	336.3	318.5	286.0	275.3
4694.5	75°	2995.3	1139.1	264.7	277.1	287.7	274.1	287.2	274.1	244.5	252.2
3467.7	77.5°	2175.2	769.1	202.5	231.5	236.2	229.1	240.4	225.6	198.9	197.2
1728.2	80°	1081.7	450.6	158.7	182.9	181.2	176.4	189.5	182.4	159.9	169.3
466.5	82.5°	313.2	193.0	115.5	128.5	124.9	126.1	135.6	139.1	208.4	206.6
145.1	85°	98.3	75.8	69.3	71.6	68.1	69.9	79.9	158.7	146.8	85.8
45.0	87.5°	25.5	26.1	17.2	18.4	18.9	22.5	25.5	96.5	46.2	30.2
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>
2020.1
1923.6
1716.4
1430.4
1208.4
1105.4
1031.4
1005.9
998.2
969.2
920.7
881.0
843.7
802.8
757.3
705.7
625.2
587.3
611.0
594.4
526.3
480.8
458.3
429.8
402.6
375.4
350.5
326.2
297.8
266.4
230.3
188.3
167.6
211.4
93.0
32.0
0.0

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