

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: P947492

Luminaire Tested: **GALN-SB2D-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2D-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

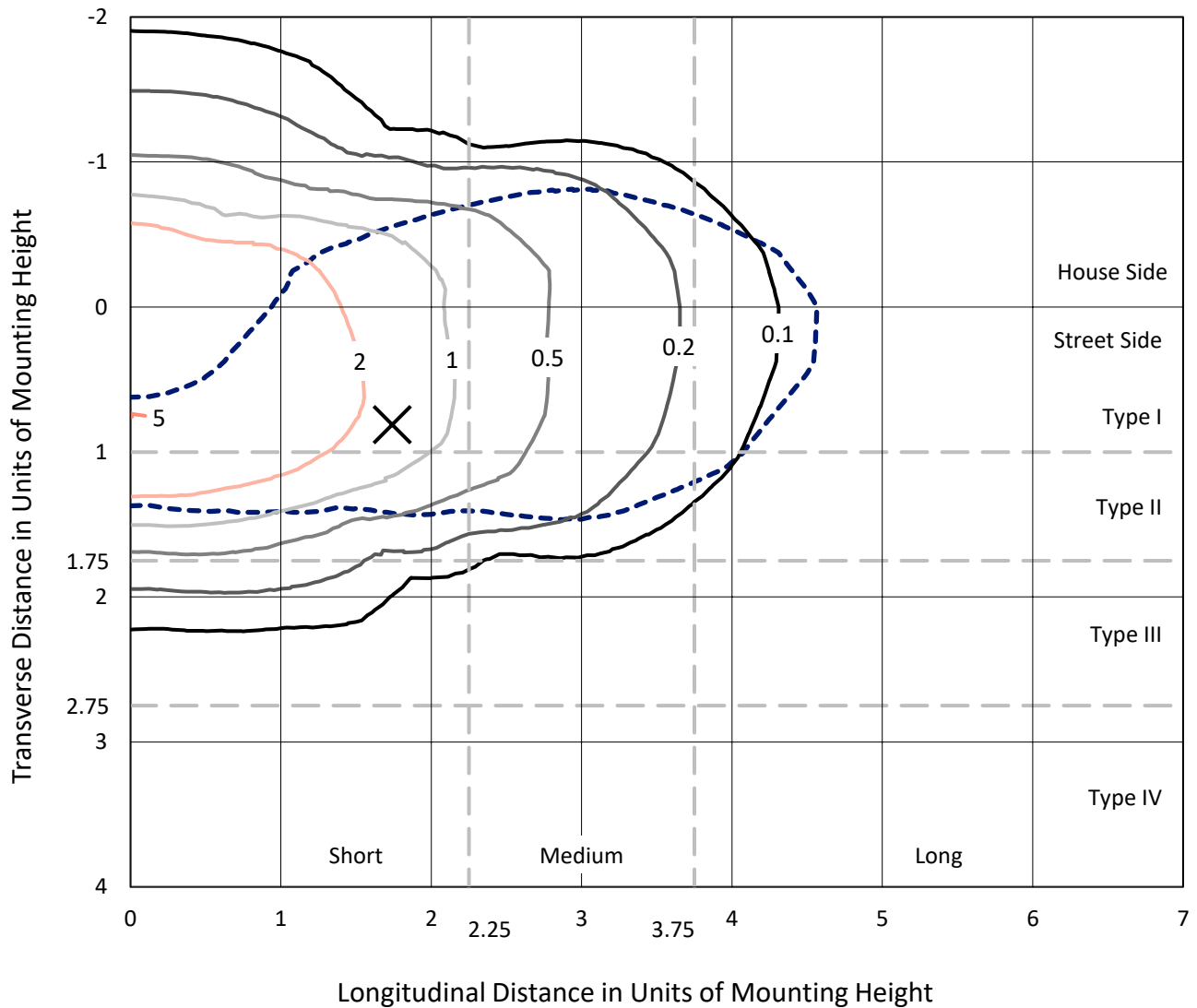
Lumens per Lamp: N/A  
Luminaire Lumens: 17933 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

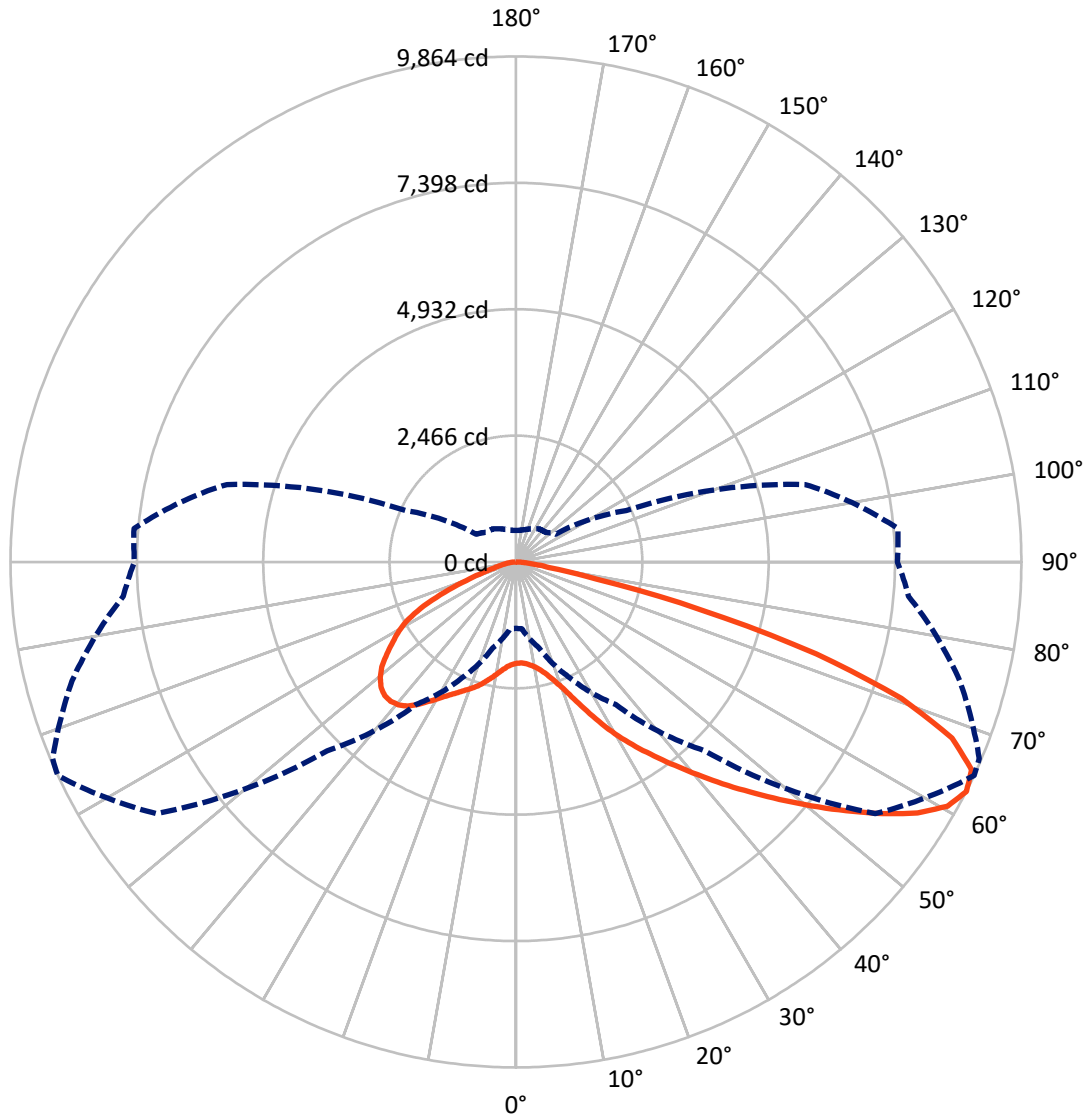
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5658.9	0.0	5658.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	12274.1	0.0	12274.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	17933.0	0.0	17933.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.0	1.1
10°-20°	668.1	3.7
20°-30°	1354.7	7.6
30°-40°	2344.2	13.1
40°-50°	3547.5	19.8
50°-60°	4159.3	23.2
60°-70°	3487.0	19.4
70°-80°	1925.1	10.7
80°-90°	250.1	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°	17933.0	100.0
0°-180°	17933.0	100.0



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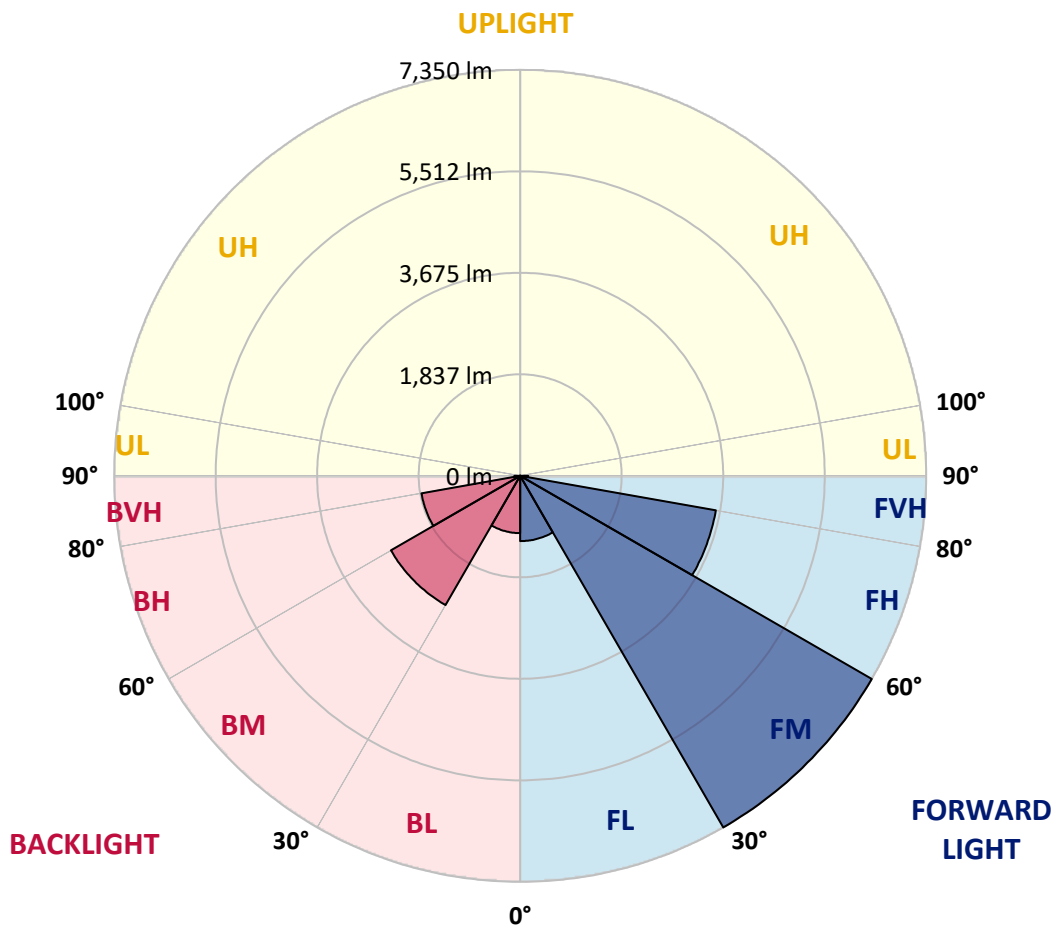
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1182.0	6.6			
FM (30°-60°)	7349.5	41.0			
FH (60°-80°)	3596.8	20.1			G2/5000
FVH (80°-90°)	145.7	0.8			G2/225
BL (0°-30°)	1037.8	5.8	B3/2500		
BM (30°-60°)	2701.5	15.1	B3/5000		
BH (60°-80°)	1815.3	10.1	B3/2500		G3/2500
BVH (80°-90°)	104.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1
2.5°	1963.1	1957.5	1962.2	1962.2	1964.0	1963.1	1969.6	1971.5	1974.3	1979.9
5°	1943.6	1942.6	1951.0	1958.5	1965.9	1972.4	1980.8	1992.9	1994.7	2001.3
7.5°	1937.1	1931.5	1944.5	1953.8	1971.5	1987.3	2009.6	2030.1	2038.5	2041.3
10°	1987.3	1978.0	1990.1	1995.7	2010.6	2026.4	2052.4	2085.0	2094.3	2105.5
12.5°	2072.9	2062.7	2080.3	2088.7	2102.7	2116.6	2134.3	2165.9	2170.6	2191.1
15°	2190.1	2178.0	2189.2	2199.4	2222.7	2235.7	2253.4	2284.1	2284.1	2299.9
17.5°	2349.2	2333.4	2341.8	2345.5	2360.4	2379.9	2409.7	2436.7	2450.6	2445.1
20°	2586.5	2566.9	2566.9	2548.3	2542.7	2558.6	2597.6	2634.9	2649.7	2620.9
22.5°	2942.8	2914.9	2899.1	2835.8	2810.7	2812.6	2851.6	2897.2	2909.3	2858.1
25°	3395.9	3352.2	3330.8	3237.7	3181.0	3131.7	3162.4	3221.0	3237.7	3174.5
27.5°	3849.0	3851.8	3831.3	3719.7	3625.7	3535.5	3519.6	3581.1	3598.7	3527.1
30°	4484.5	4418.4	4379.3	4245.3	4111.4	3984.8	3919.7	3944.8	3949.5	3863.9
32.5°	5032.5	5015.7	4932.0	4814.7	4642.6	4444.5	4335.6	4295.6	4288.1	4166.3
35°	5656.7	5647.4	5559.1	5419.5	5233.4	4958.0	4761.7	4647.3	4638.0	4466.8
37.5°	6291.3	6291.3	6204.7	6052.2	5859.6	5515.3	5216.7	5035.2	5005.5	4782.2
40°	6797.4	6766.7	6782.5	6718.3	6497.8	6132.2	5721.9	5458.6	5418.6	5150.6
42.5°	7084.9	7074.7	7169.6	7241.2	7150.9	6858.8	6278.2	5917.3	5861.4	5556.3
45°	7149.1	7137.9	7307.2	7569.6	7696.1	7576.1	6883.0	6400.1	6332.2	5980.5
47.5°	7001.2	6978.8	7227.2	7641.3	8046.9	8258.1	7538.0	6923.9	6825.3	6393.6
50°	6556.4	6535.0	6910.9	7460.8	8165.1	8721.4	8248.8	7479.4	7328.6	6836.5
52.5°	5589.8	5600.0	6188.9	6944.4	8009.7	9009.9	8861.0	8064.6	7883.2	7289.6
55°	4354.2	4376.5	5100.4	5932.1	7388.2	8966.1	9278.7	8667.5	8487.0	7715.7
57.5°	3117.7	3216.3	3894.6	4718.0	6194.5	8273.0	9369.9	9240.6	9065.7	8180.9
60°	2020.8	2038.5	2736.3	3566.2	4717.1	7041.2	9184.8	9675.1	9538.3	8655.4
62.5°	1295.1	1307.2	1732.4	2494.4	3395.0	5209.2	8561.4	9863.9	9822.1	8968.9
65°	951.8	942.5	1163.9	1648.6	2286.9	3212.6	7351.0	9772.8	9855.6	9165.2
67.5°	794.5	781.5	890.4	1141.6	1684.9	1824.5	5439.0	9180.1	9483.4	9142.9
70°	723.8	712.7	778.7	847.6	1314.6	1221.6	2741.8	7980.8	8447.9	8888.9
72.5°	613.1	593.6	683.8	752.7	1022.5	936.9	1133.2	6130.3	6699.7	8074.8
75°	475.4	462.4	539.6	662.4	768.5	731.3	716.4	3722.5	4344.0	6244.7
77.5°	376.8	359.1	429.8	516.4	691.3	551.7	521.9	1603.1	2219.0	3986.7
80°	283.8	268.0	326.6	408.4	531.3	415.9	337.7	654.1	836.4	2019.9
82.5°	201.9	187.9	227.9	299.6	357.3	373.1	207.5	366.6	412.2	778.7
85°	129.3	121.0	152.6	187.9	227.0	240.0	126.5	191.7	210.3	321.0
87.5°	70.7	57.7	81.9	87.5	105.1	95.8	60.5	69.8	75.4	116.3
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°
1976.1	0°	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1	1976.1
1979.9	2.5°	1983.6	1986.4	1995.7	1998.5	2005.0	2013.4	2018.9	2024.5	2024.5	2030.1
2009.6	5°	2010.6	2017.1	2036.6	2046.8	2063.6	2080.3	2090.6	2102.7	2110.1	2113.8
2057.1	7.5°	2062.7	2072.9	2100.8	2118.5	2147.3	2170.6	2186.4	2203.2	2206.9	2217.1
2123.1	10°	2133.4	2145.5	2177.1	2210.6	2245.0	2273.9	2288.7	2300.8	2305.5	2307.4
2207.8	12.5°	2214.3	2232.0	2272.9	2313.9	2350.2	2375.3	2379.0	2376.2	2363.2	2352.0
2312.0	15°	2313.9	2329.7	2375.3	2419.9	2455.3	2459.9	2436.7	2421.8	2406.0	2403.2
2428.3	17.5°	2433.0	2441.3	2483.2	2526.9	2529.7	2513.9	2479.5	2465.5	2450.6	2440.4
2580.0	20°	2571.6	2568.8	2598.6	2617.2	2597.6	2549.3	2497.2	2473.9	2459.0	2446.9
2766.0	22.5°	2737.2	2715.8	2712.1	2707.4	2655.3	2553.9	2483.2	2453.4	2430.2	2413.4
3025.6	25°	2978.2	2896.3	2839.5	2807.9	2690.7	2528.8	2438.5	2372.5	2328.8	2299.9
3342.9	27.5°	3279.6	3141.9	2998.6	2921.4	2690.7	2477.6	2330.6	2223.6	2152.0	2122.2
3649.9	30°	3567.1	3422.9	3211.7	3058.2	2684.2	2393.9	2156.6	2007.8	1924.0	1894.3
3912.3	32.5°	3812.7	3655.5	3437.8	3208.0	2668.3	2258.0	1940.8	1776.1	1695.2	1659.8
4171.8	35°	4040.7	3873.2	3664.8	3372.6	2626.5	2058.9	1703.5	1577.9	1487.7	1430.9
4436.1	37.5°	4274.2	4075.1	3879.7	3521.5	2551.1	1826.3	1521.2	1414.2	1308.1	1231.8
4717.1	40°	4528.2	4290.0	4109.5	3609.9	2427.4	1604.9	1379.8	1282.1	1169.5	1088.6
5040.8	42.5°	4825.0	4547.7	4365.4	3655.5	2258.0	1447.7	1287.7	1191.8	1085.8	1019.7
5387.9	45°	5134.8	4831.5	4598.9	3654.6	2069.2	1374.2	1257.9	1163.0	1045.8	976.9
5744.2	47.5°	5459.5	5128.3	4800.8	3595.0	1905.4	1384.4	1241.1	1100.6	971.3	904.3
6104.3	50°	5785.1	5453.0	4996.2	3483.4	1835.7	1362.1	1178.8	1013.2	860.6	800.1
6442.0	52.5°	6108.0	5798.2	5164.6	3324.3	1764.9	1279.3	1098.8	899.7	815.0	773.2
6790.9	55°	6432.7	6139.6	5347.9	3092.6	1588.2	1182.5	964.8	856.9	778.7	740.6
7132.3	57.5°	6758.3	6534.1	5521.8	2860.9	1365.8	1063.4	891.3	804.8	742.4	709.9
7418.0	60°	7097.0	6985.3	5701.4	2647.9	1146.2	910.8	837.3	762.9	699.6	663.4
7692.4	62.5°	7445.9	7482.2	5841.9	2373.4	944.3	817.8	789.0	712.7	651.3	616.8
7919.4	65°	7797.6	7961.3	5934.0	1992.9	765.7	729.4	736.9	657.8	595.4	565.7
8086.0	67.5°	8062.7	8306.5	5907.9	1508.2	628.0	645.7	671.7	600.1	541.5	518.2
8059.0	70°	8092.5	8265.5	5651.2	1032.7	525.7	563.8	599.2	543.3	482.9	466.1
7679.4	72.5°	7696.1	7707.3	4935.7	674.5	444.7	495.0	522.9	485.7	427.0	410.3
6718.3	75°	6656.9	6374.1	3623.9	444.7	372.2	425.2	451.2	425.2	368.4	372.2
5026.9	77.5°	5043.6	4514.2	2200.4	316.3	310.7	357.3	392.6	374.0	325.6	365.6
2527.9	80°	2598.6	2442.3	981.6	236.3	245.6	285.6	322.8	298.7	257.7	245.6
564.7	82.5°	595.4	692.2	387.0	169.3	177.7	205.6	246.6	224.2	185.1	156.3
235.4	85°	208.4	227.9	171.2	106.1	104.2	128.4	167.5	149.8	125.6	100.5
99.6	87.5°	66.1	86.5	64.2	42.8	44.7	57.7	77.2	70.7	58.6	38.1
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>
1976.1
2030.1
2115.7
2213.4
2302.7
2352.0
2403.2
2441.3
2447.8
2419.0
2311.1
2137.1
1911.9
1677.5
1449.5
1252.3
1104.4
1032.7
988.1
913.6
803.9
773.2
736.9
704.3
660.6
615.9
564.7
519.2
467.1
409.4
359.1
321.9
224.2
154.4
106.1
40.0
0.0

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