

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: P939377

Luminaire Tested: **GALN-SB1D-940-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939377  
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-SB1D-940-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7381 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

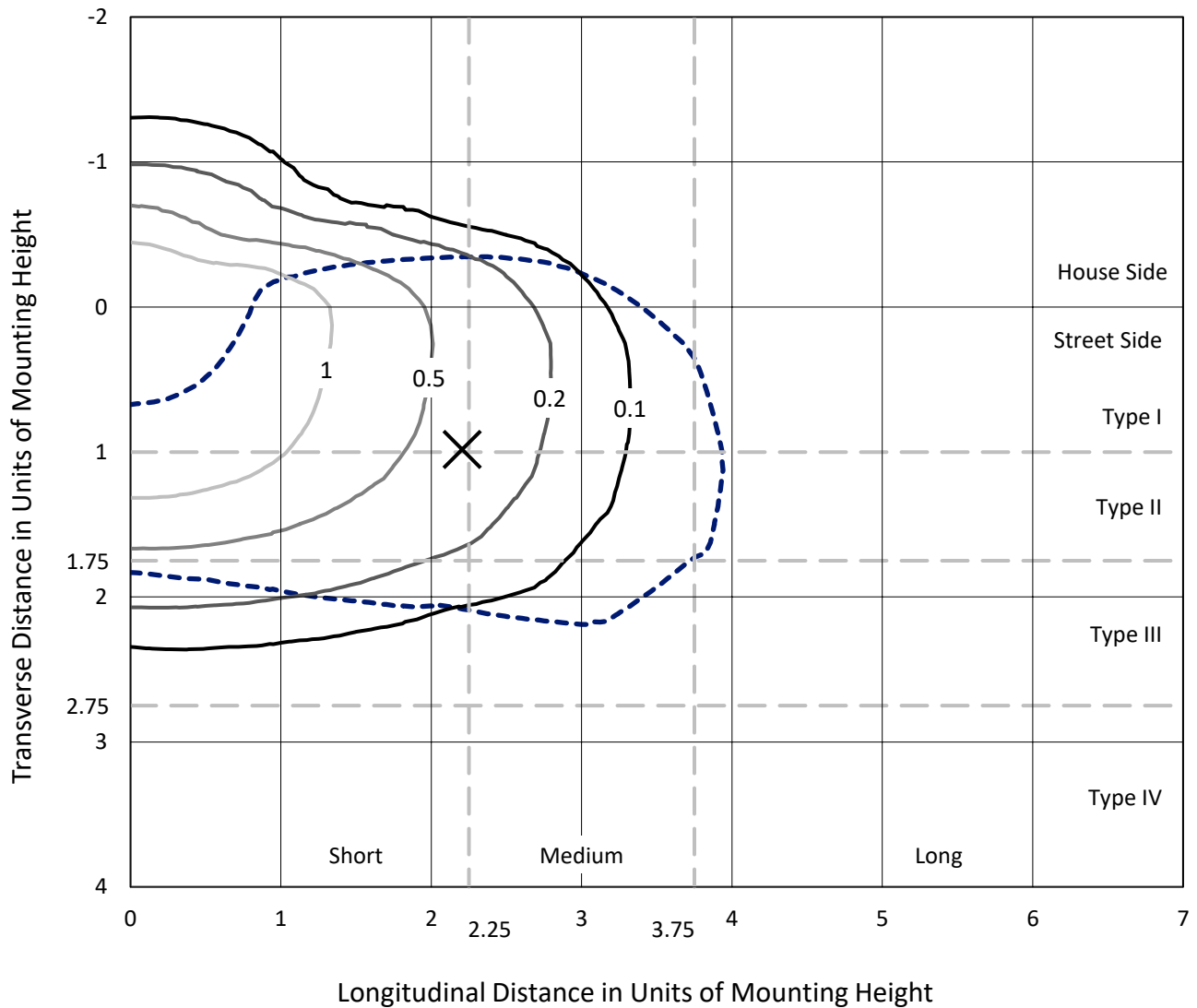
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

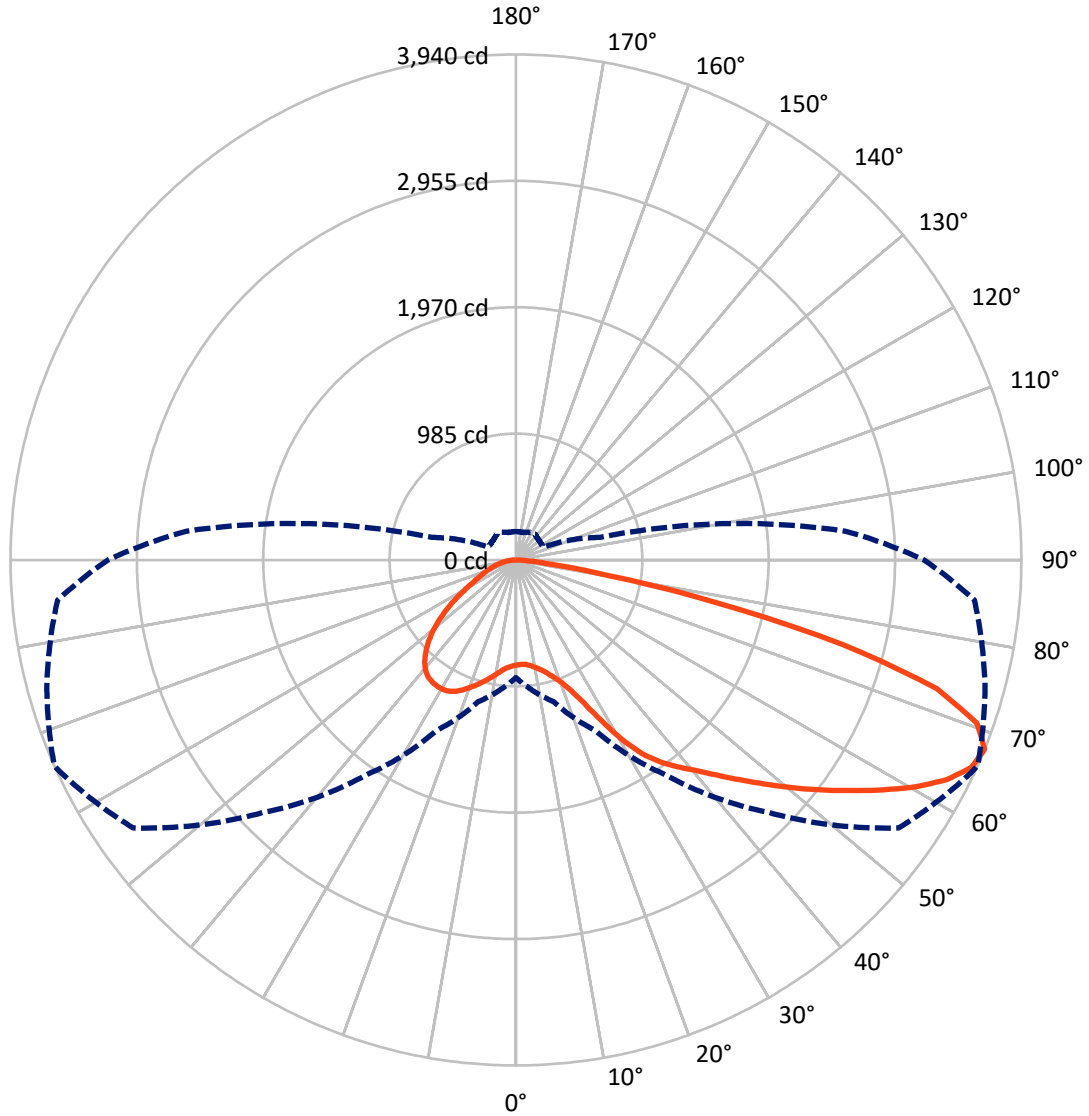
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
<b>House Side</b>	Lumens	1835.3	0.0	1835.3
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	5545.7	0.0	5545.7
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	7381.0	0.0	7381.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	1.1
10°-20°	268.2	3.6
20°-30°	516.9	7.0
30°-40°	906.3	12.3
40°-50°	1347.3	18.3
50°-60°	1707.8	23.1
60°-70°	1671.1	22.6
70°-80°	797.1	10.8
80°-90°	85.2	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°	7381.0	100.0
0°-180°	7381.0	100.0

**Coefficient of Utilization**



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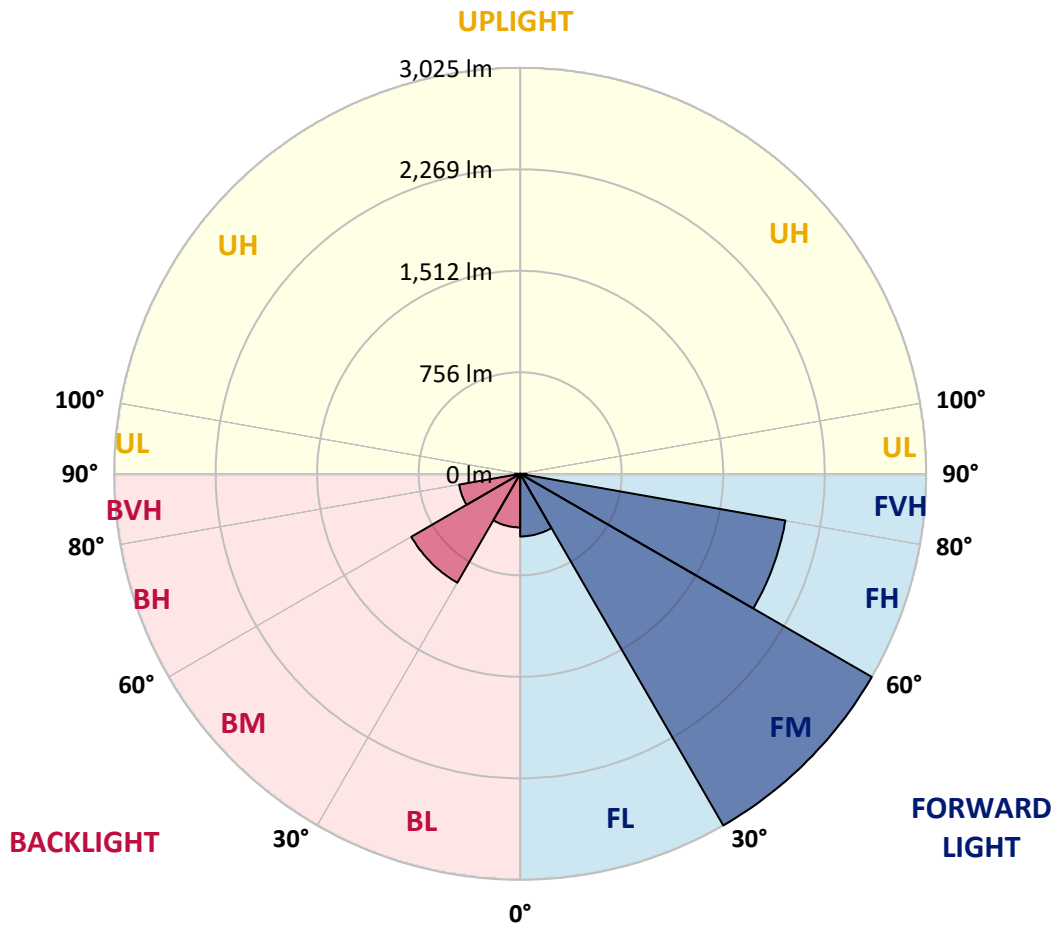
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.4	6.3			
FM (30°-60°)	3024.7	41.0			
FH (60°-80°)	2006.4	27.2			G2/5000
FVH (80°-90°)	48.3	0.7			G1/100
BL (0°-30°)	399.8	5.4	B1/500		
BM (30°-60°)	936.7	12.7	B1/1000		
BH (60°-80°)	461.8	6.3	B1/500		G1/500
BVH (80°-90°)	36.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	810.1	814.8	813.6	811.7	811.3	812.1	813.2	814.4	814.0	815.9
5°	807.8	812.4	812.1	812.1	813.6	816.7	818.7	820.6	818.7	821.0
7.5°	809.3	812.8	814.4	815.9	819.8	825.6	830.3	834.6	832.2	834.9
10°	829.1	831.8	833.4	833.4	836.1	842.7	847.3	855.1	853.2	857.4
12.5°	865.2	867.9	867.9	866.4	868.3	872.6	874.1	882.6	879.1	886.1
15°	909.4	914.8	910.6	907.8	908.6	912.9	912.5	919.1	915.6	921.4
17.5°	958.3	965.2	958.3	957.9	956.3	961.0	961.4	967.2	961.0	965.2
20°	1016.0	1025.7	1019.9	1021.9	1018.4	1020.3	1022.2	1030.8	1021.1	1024.2
22.5°	1097.5	1109.1	1102.9	1110.3	1108.0	1106.4	1106.0	1121.1	1106.0	1107.2
25°	1216.1	1230.1	1219.3	1229.3	1229.3	1234.4	1240.2	1259.6	1234.4	1227.0
27.5°	1391.4	1405.4	1384.1	1390.3	1388.3	1400.7	1394.5	1442.6	1415.5	1403.5
30°	1602.4	1627.2	1586.9	1585.3	1583.4	1603.2	1612.1	1643.9	1616.4	1604.3
32.5°	1830.4	1856.4	1808.3	1794.4	1787.0	1799.0	1791.6	1817.2	1798.2	1779.6
35°	2071.6	2097.2	2051.5	2024.3	1994.9	1969.6	1943.3	1949.9	1932.0	1903.7
37.5°	2299.7	2346.6	2298.1	2269.0	2214.7	2165.5	2091.8	2061.2	2044.5	2018.5
40°	2532.0	2558.7	2521.9	2497.1	2438.1	2360.9	2243.0	2178.3	2155.8	2130.6
42.5°	2703.0	2728.6	2708.8	2691.7	2645.6	2556.0	2403.6	2322.5	2290.0	2261.7
45°	2838.7	2857.7	2845.3	2851.5	2831.7	2744.9	2570.0	2477.3	2443.5	2409.0
47.5°	2893.4	2913.6	2933.3	2970.2	3003.9	2939.9	2748.7	2644.8	2609.1	2573.8
50°	2887.2	2907.7	2965.1	3043.5	3148.2	3126.8	2937.2	2823.2	2790.2	2749.9
52.5°	2837.5	2860.8	2934.5	3064.8	3231.6	3266.8	3129.2	3007.4	2976.4	2928.3
55°	2707.2	2721.2	2831.7	3016.3	3251.3	3364.6	3317.3	3203.6	3172.6	3105.5
57.5°	2465.6	2485.8	2646.8	2885.6	3201.7	3430.9	3482.5	3409.9	3380.1	3283.5
60°	2150.4	2182.6	2366.8	2666.1	3075.3	3430.5	3632.5	3612.8	3587.9	3458.8
62.5°	1793.6	1830.8	2008.0	2355.9	2854.2	3333.2	3726.4	3782.6	3769.8	3620.5
65°	1377.5	1403.1	1579.5	1954.5	2510.2	3124.1	3737.2	3898.6	3900.9	3743.5
67.5°	917.2	990.8	1144.0	1466.7	2049.5	2782.5	3641.9	3917.6	3940.1	3785.7
70°	447.5	544.5	694.6	953.2	1466.7	2258.6	3392.5	3761.7	3811.7	3662.4
72.5°	185.8	217.2	299.0	470.4	841.9	1524.1	2891.5	3339.0	3431.7	3245.1
75°	125.3	135.7	171.0	241.2	383.5	751.6	2085.2	2489.7	2639.0	2450.9
77.5°	96.6	103.2	124.5	168.7	228.0	284.3	1116.1	1500.4	1577.6	1460.5
80°	76.0	81.1	93.1	122.9	161.7	152.0	380.4	679.8	724.4	607.7
82.5°	65.9	67.9	66.7	83.4	107.4	88.8	124.9	250.9	276.9	200.9
85°	47.7	53.1	55.5	51.6	57.0	45.0	51.2	88.8	97.7	87.3
87.5°	19.4	28.7	35.3	33.4	20.9	12.8	15.9	26.0	29.9	32.6
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°
818.7	0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
819.0	2.5°	819.4	822.1	824.1	826.4	828.0	830.3	834.9	837.7	838.0	840.0
825.2	5°	826.8	830.7	834.9	841.1	848.1	853.9	862.9	869.1	871.4	873.3
840.4	7.5°	842.7	848.1	855.9	866.7	876.8	884.6	895.4	902.8	910.2	912.9
864.4	10°	866.4	874.1	885.4	900.1	910.9	921.0	932.3	938.5	945.8	949.0
893.1	12.5°	895.8	904.0	918.7	939.3	949.3	956.3	960.2	958.6	960.2	962.9
927.6	15°	929.6	938.5	955.2	977.3	984.2	978.0	969.5	961.7	960.6	961.4
969.5	17.5°	969.5	976.1	995.5	1014.1	1009.1	983.5	964.9	952.4	946.2	944.3
1023.0	20°	1025.3	1025.3	1041.2	1052.9	1019.1	975.7	946.6	926.5	913.7	908.2
1095.9	22.5°	1093.2	1087.0	1097.1	1088.9	1017.2	954.0	913.7	878.8	859.4	851.6
1197.9	25°	1179.3	1171.9	1169.2	1118.8	1003.2	919.5	853.9	811.7	794.6	790.3
1344.9	27.5°	1309.2	1290.6	1255.3	1135.1	977.6	865.2	784.1	745.0	735.3	735.7
1533.8	30°	1482.2	1445.0	1358.5	1137.8	935.8	788.4	712.8	684.9	680.2	682.1
1692.4	32.5°	1642.3	1607.1	1464.0	1125.4	871.4	713.2	648.8	630.2	623.2	625.5
1813.4	35°	1768.0	1758.3	1561.7	1108.0	792.3	642.6	591.4	575.5	561.9	558.8
1927.4	37.5°	1886.7	1882.8	1635.0	1083.5	713.9	592.6	545.2	524.3	504.5	493.7
2053.4	40°	2017.0	2013.1	1683.1	1045.9	644.5	549.1	503.8	476.2	451.8	432.0
2196.1	42.5°	2163.5	2140.7	1705.9	992.0	585.6	512.3	470.0	432.8	400.6	382.4
2357.4	45°	2323.7	2272.1	1705.6	923.4	535.9	478.5	434.0	381.2	351.3	334.3
2523.0	47.5°	2493.6	2397.8	1684.6	847.3	487.9	441.3	378.1	337.8	318.0	307.5
2703.0	50°	2668.9	2515.3	1648.9	760.1	438.6	399.0	343.2	315.7	300.5	290.9
2881.4	52.5°	2833.7	2621.9	1605.9	661.2	388.6	357.9	327.7	306.4	290.5	279.6
3054.3	55°	2986.9	2713.8	1545.0	560.0	347.9	330.4	320.3	302.5	284.3	271.5
3230.0	57.5°	3123.0	2773.6	1439.9	465.0	318.8	311.4	312.6	295.9	275.0	264.1
3403.0	60°	3236.2	2817.4	1284.4	376.9	295.1	292.8	300.5	283.5	259.1	246.6
3549.2	62.5°	3304.1	2816.6	1093.6	308.7	275.0	275.7	284.6	268.0	243.2	231.5
3625.6	65°	3298.3	2747.6	884.2	264.1	255.6	256.3	268.0	250.9	230.0	223.0
3587.2	67.5°	3181.5	2579.3	678.3	235.0	234.2	237.7	251.3	239.3	221.8	221.0
3358.4	70°	2865.5	2229.9	488.6	211.7	212.1	217.2	235.0	231.9	217.6	219.1
2823.6	72.5°	2297.7	1700.1	328.1	187.3	187.7	195.8	219.5	226.1	213.3	233.8
2003.4	75°	1530.3	1060.3	211.0	161.3	161.7	172.2	205.9	214.8	201.7	233.1
1042.4	77.5°	735.3	476.6	152.8	135.7	135.7	145.4	178.0	192.3	171.8	181.1
335.1	80°	254.0	179.2	120.2	109.4	107.0	113.6	150.1	166.8	148.1	136.5
109.4	82.5°	100.1	93.1	96.6	84.9	77.2	81.4	116.7	137.7	109.0	98.5
61.7	85°	57.4	60.5	68.3	56.2	44.6	50.0	85.7	98.9	82.2	72.5
20.2	87.5°	15.5	21.3	31.4	29.1	20.2	21.3	40.7	54.7	47.3	36.5
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>
818.7
839.6
872.9
913.3
950.5
963.7
964.1
947.0
907.1
850.5
791.1
736.8
688.7
628.6
561.1
494.1
434.0
383.5
333.5
305.2
287.4
275.0
266.4
257.1
241.2
228.0
222.6
222.2
218.7
236.9
235.0
166.0
128.0
98.1
74.1
37.6
0.0

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