

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: P940516

Luminaire Tested: **GALN-SB3C-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16856 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

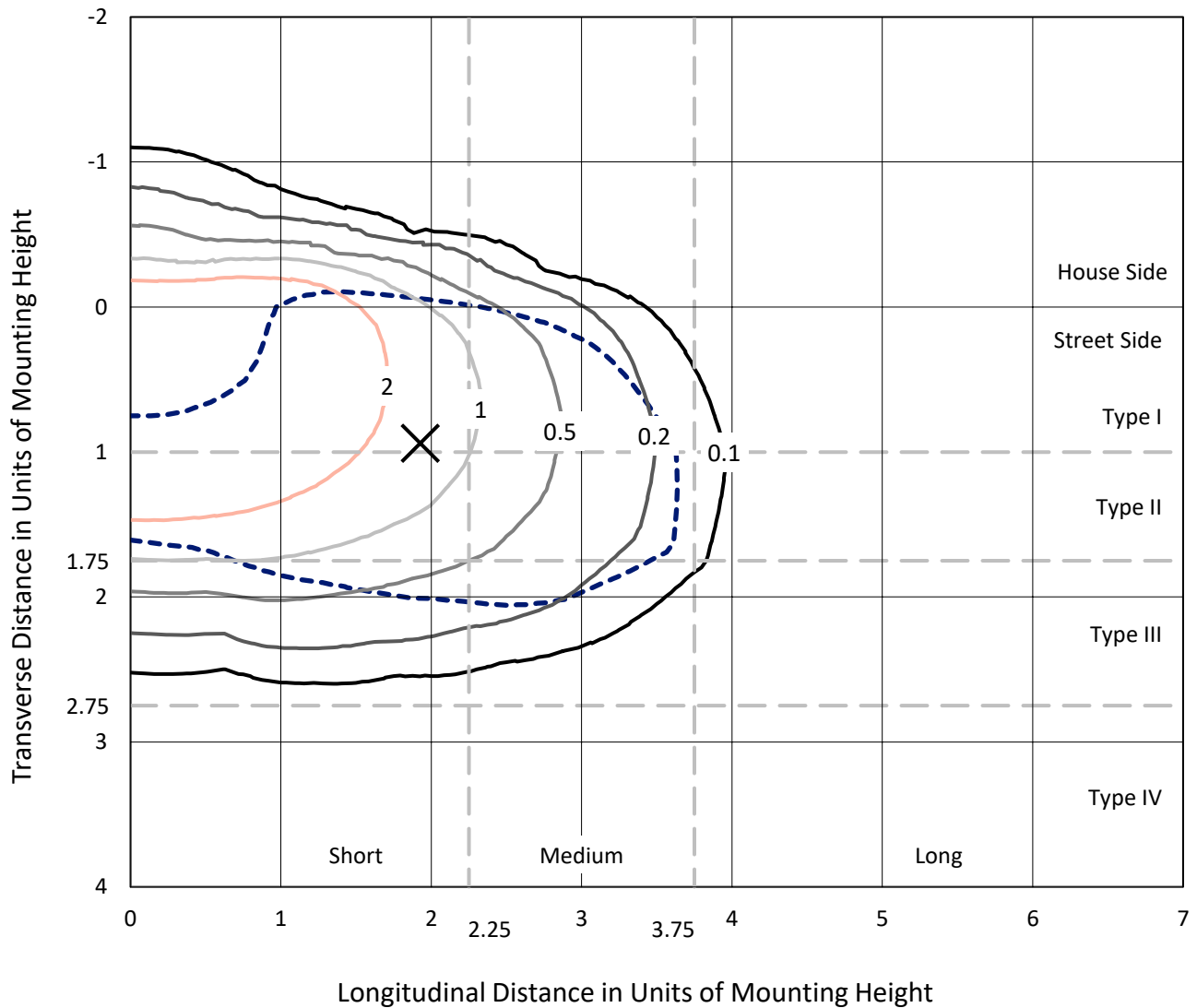
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

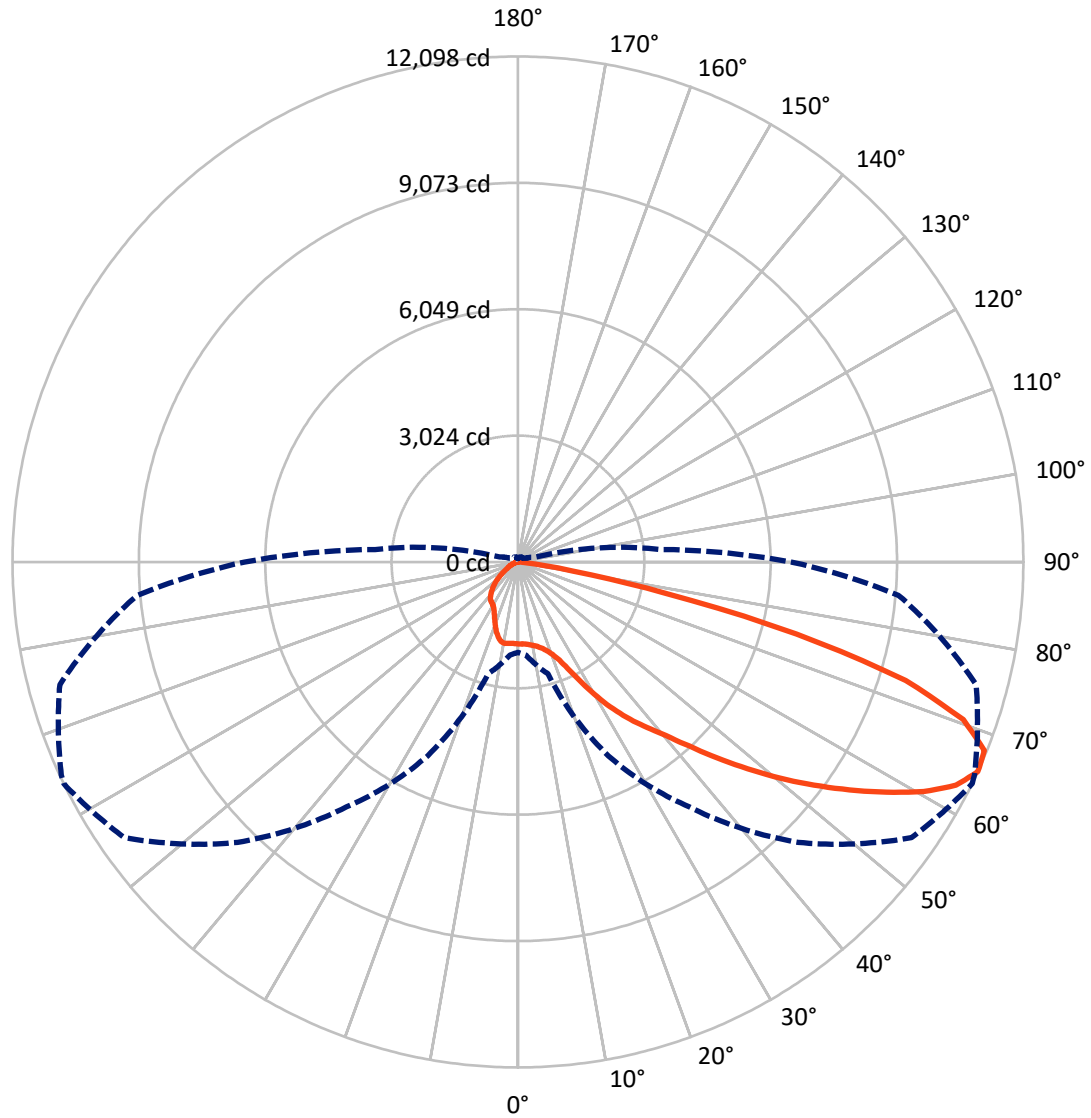
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2254.2	0.0	2254.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14601.8	0.0	14601.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	16856.0	0.0	16856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.1
10°-20°	490.6	2.9
20°-30°	929.6	5.5
30°-40°	1881.1	11.2
40°-50°	3204.5	19.0
50°-60°	4357.9	25.9
60°-70°	4092.3	24.3
70°-80°	1639.6	9.7
80°-90°	79.4	0.5
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°	16856.0	100.0
0°-180°	16856.0	100.0

Coefficient of Utilization



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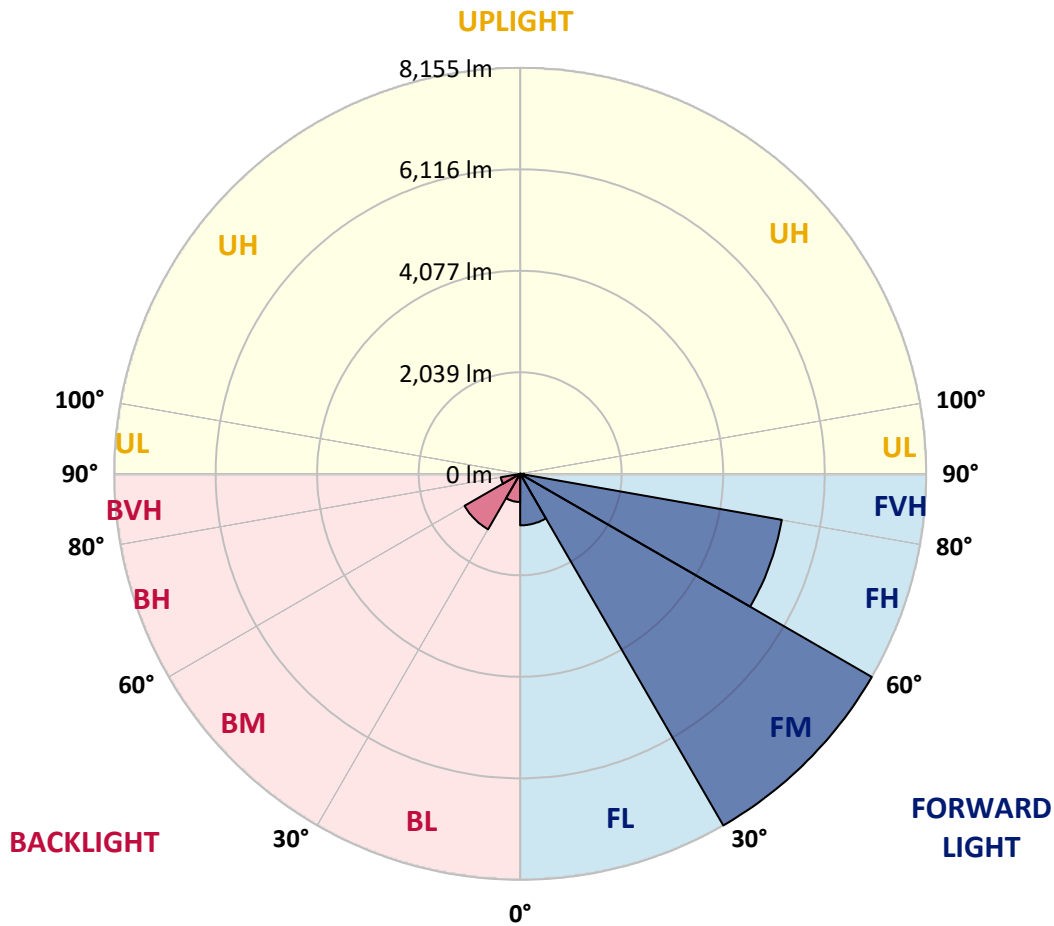
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.2	6.1			
FM (30°-60°)	8154.9	48.4			
FH (60°-80°)	5336.2	31.7			G3/7500
FVH (80°-90°)	75.5	0.4			G1/100
BL (0°-30°)	566.0	3.4	B2/1000		
BM (30°-60°)	1288.7	7.6	B2/2500		
BH (60°-80°)	395.6	2.3	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
2.5°	1953.7	1967.3	1963.9	1960.5	1959.4	1961.7	1962.8	1961.7	1961.7	1961.7
5°	1916.5	1927.8	1927.8	1935.7	1947.0	1960.5	1970.7	1973.0	1975.2	1978.6
7.5°	1845.3	1854.3	1861.1	1887.1	1915.3	1951.5	1982.0	1997.8	2000.1	2012.5
10°	1796.7	1808.0	1819.3	1846.4	1887.1	1941.3	1993.3	2031.7	2037.4	2066.7
12.5°	1794.4	1805.7	1820.4	1849.8	1897.2	1954.9	2018.2	2073.5	2083.7	2126.6
15°	1818.1	1831.7	1845.3	1881.4	1932.3	2002.3	2070.1	2139.1	2149.2	2210.3
17.5°	1866.7	1884.8	1895.0	1931.1	1985.4	2063.4	2152.6	2231.7	2240.8	2312.0
20°	1962.8	1984.3	1987.6	2017.0	2070.1	2153.8	2260.0	2358.3	2369.6	2450.9
22.5°	2161.7	2192.2	2165.1	2179.7	2227.2	2310.8	2426.1	2550.4	2566.2	2658.9
25°	2512.0	2554.9	2484.8	2460.0	2480.3	2567.3	2712.0	2869.0	2887.1	2961.7
27.5°	3200.1	3144.8	3038.5	2934.6	2873.6	2923.3	3086.0	3280.4	3303.0	3375.3
30°	3956.1	3907.5	3764.0	3533.5	3388.8	3380.9	3531.2	3748.2	3774.2	3843.1
32.5°	4713.2	4666.8	4510.9	4227.3	3976.4	3852.1	3956.1	4196.8	4210.3	4254.4
35°	5457.8	5410.4	5254.4	4964.0	4655.5	4373.1	4352.7	4623.9	4628.4	4674.8
37.5°	6207.0	6167.5	6001.4	5716.6	5412.6	5022.8	4834.1	5028.4	5034.1	5079.3
40°	6741.5	6758.5	6644.3	6424.0	6163.0	5736.9	5374.2	5459.0	5425.1	5500.8
42.5°	7200.3	7234.2	7134.7	7024.0	6872.6	6497.4	6043.2	6028.5	5974.2	6014.9
45°	7596.9	7625.2	7535.9	7509.9	7506.5	7243.2	6774.3	6686.1	6610.4	6602.5
47.5°	7742.7	7796.9	7835.3	7922.3	8091.8	7981.1	7530.2	7393.5	7308.8	7246.6
50°	7798.0	7855.7	7986.7	8239.9	8641.0	8688.5	8282.8	8129.1	8025.2	7912.2
52.5°	7723.5	7826.3	8002.6	8428.6	9010.5	9255.7	9004.9	8870.4	8751.8	8567.6
55°	7283.9	7386.7	7747.2	8426.3	9194.7	9653.5	9687.4	9627.5	9494.2	9203.7
57.5°	6357.3	6509.9	7080.5	8139.3	9191.3	9995.9	10356.3	10399.3	10250.1	9834.3
60°	5073.6	5280.4	5976.5	7503.1	8907.7	10181.2	10942.8	11157.5	10999.3	10455.8
62.5°	3540.2	3779.8	4438.6	6506.5	8259.1	10047.8	11371.1	11767.7	11647.9	11011.7
65°	2159.4	2236.2	2767.3	5120.0	7156.2	9489.6	11503.3	12097.6	12058.1	11351.9
67.5°	1438.5	1502.9	1655.4	3510.9	5555.0	8374.3	11186.9	12040.0	12051.3	11296.5
70°	866.7	922.1	1021.5	2041.9	3600.1	6628.5	10207.2	11305.5	11371.1	10556.3
72.5°	357.1	394.4	484.8	925.5	1864.5	4206.9	8128.0	9706.6	9859.1	8876.0
75°	202.3	221.5	284.8	464.4	809.1	1960.5	4923.4	6890.7	7115.5	6117.8
77.5°	134.5	143.5	184.2	300.6	455.4	669.0	2104.0	3590.0	4019.4	3341.4
80°	90.4	98.3	126.6	201.1	296.1	287.0	670.1	1330.0	1636.2	1148.1
82.5°	61.0	62.1	90.4	132.2	187.6	139.0	197.7	413.6	519.8	332.2
85°	35.0	33.9	66.7	76.8	83.6	57.6	59.9	124.3	162.7	140.1
87.5°	4.5	6.8	26.0	20.3	11.3	12.4	12.4	21.5	31.6	33.9
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°
1960.5	0°	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5	1960.5
1962.8	2.5°	1962.8	1961.7	1958.3	1954.9	1947.0	1942.4	1944.7	1942.4	1941.3	1942.4
1977.5	5°	1977.5	1974.1	1965.0	1953.7	1937.9	1918.7	1906.3	1888.2	1871.3	1861.1
2017.0	7.5°	2017.0	2013.6	2001.2	1969.6	1918.7	1838.5	1765.0	1700.6	1652.0	1623.8
2080.3	10°	2080.3	2074.7	2055.4	1985.4	1852.0	1676.9	1531.1	1410.2	1331.1	1293.8
2154.9	12.5°	2154.9	2148.1	2114.2	1970.7	1725.5	1452.0	1250.9	1116.4	1043.0	1010.2
2240.8	15°	2243.0	2234.0	2167.3	1900.6	1541.3	1203.4	1019.2	918.7	871.2	841.8
2350.4	17.5°	2352.6	2336.8	2206.9	1795.5	1341.3	1013.6	876.9	801.2	759.4	731.1
2493.9	20°	2495.0	2469.0	2238.5	1670.1	1157.1	893.8	780.8	717.5	685.9	661.0
2697.3	22.5°	2693.9	2656.6	2276.9	1534.5	1027.2	811.3	709.6	663.3	637.3	609.1
2980.9	25°	2940.2	2896.2	2324.4	1409.1	937.9	740.1	657.7	619.2	588.7	556.0
3352.7	27.5°	3284.9	3205.8	2380.9	1306.3	861.1	679.1	610.2	567.3	532.2	505.1
3774.2	30°	3669.1	3539.1	2430.6	1244.1	791.0	622.6	548.0	505.1	472.3	453.1
4152.7	32.5°	4032.9	3856.6	2463.4	1217.0	727.7	558.2	480.2	433.9	409.1	403.4
4523.3	35°	4376.4	4143.7	2460.0	1191.0	671.2	493.8	413.6	366.1	346.9	350.3
4922.2	37.5°	4771.9	4449.9	2436.3	1150.3	624.9	435.0	355.9	314.1	297.2	298.3
5407.0	40°	5231.8	4803.6	2421.6	1073.5	574.0	380.8	308.5	274.6	262.2	257.6
5917.7	42.5°	5722.3	5146.0	2423.8	986.5	510.8	332.2	275.7	247.5	236.2	232.8
6486.1	45°	6214.9	5472.5	2427.2	896.1	444.1	294.9	252.0	228.3	221.5	217.0
7062.4	47.5°	6678.2	5750.5	2363.9	798.9	378.5	266.7	232.8	217.0	211.3	205.7
7641.0	50°	7109.9	5935.8	2211.4	685.9	326.6	244.1	218.1	206.8	201.1	195.5
8165.3	52.5°	7445.5	5965.2	1959.4	569.5	290.4	227.1	209.0	198.9	192.1	186.4
8589.0	55°	7594.6	5781.0	1601.2	461.0	262.2	212.4	200.0	189.8	181.9	176.3
8922.4	57.5°	7556.2	5393.4	1248.6	370.6	235.0	197.7	188.7	181.9	172.9	163.8
9192.4	60°	7367.5	4874.8	941.3	308.5	210.2	181.9	176.3	170.6	158.2	144.6
9296.4	62.5°	7041.0	4222.8	671.2	255.4	183.1	163.8	161.6	157.1	139.0	114.1
9142.7	65°	6541.5	3430.6	452.0	212.4	157.1	143.5	144.6	136.7	113.0	84.7
8580.0	67.5°	5811.5	2508.6	289.3	174.0	131.1	119.8	120.9	116.4	96.0	72.3
7513.3	70°	4881.5	1661.1	188.7	132.2	105.1	92.7	99.4	100.6	81.4	58.8
5766.3	72.5°	3578.7	980.8	132.2	98.3	76.8	64.4	81.4	83.6	65.5	44.1
3469.1	75°	2039.6	465.6	99.4	71.2	47.5	45.2	63.3	63.3	45.2	29.4
1501.8	77.5°	856.5	194.4	70.1	46.3	27.1	26.0	42.9	39.5	22.6	13.6
366.1	80°	247.5	87.0	37.3	22.6	11.3	10.2	16.9	12.4	5.6	2.3
139.0	82.5°	97.2	38.4	14.7	9.0	4.5	4.5	2.3	0.0	0.0	0.0
79.1	85°	57.6	15.8	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0
16.9	87.5°	14.7	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1960.5
1947.0
1863.3
1624.9
1290.4
1006.8
843.0
728.8
656.5
604.5
552.6
499.5
449.7
406.8
350.3
302.8
256.5
231.6
217.0
205.7
195.5
185.3
175.1
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