

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: P941026

Luminaire Tested: **GALN-SB4B-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941026
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-SB4B-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 450mA 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: 16930 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

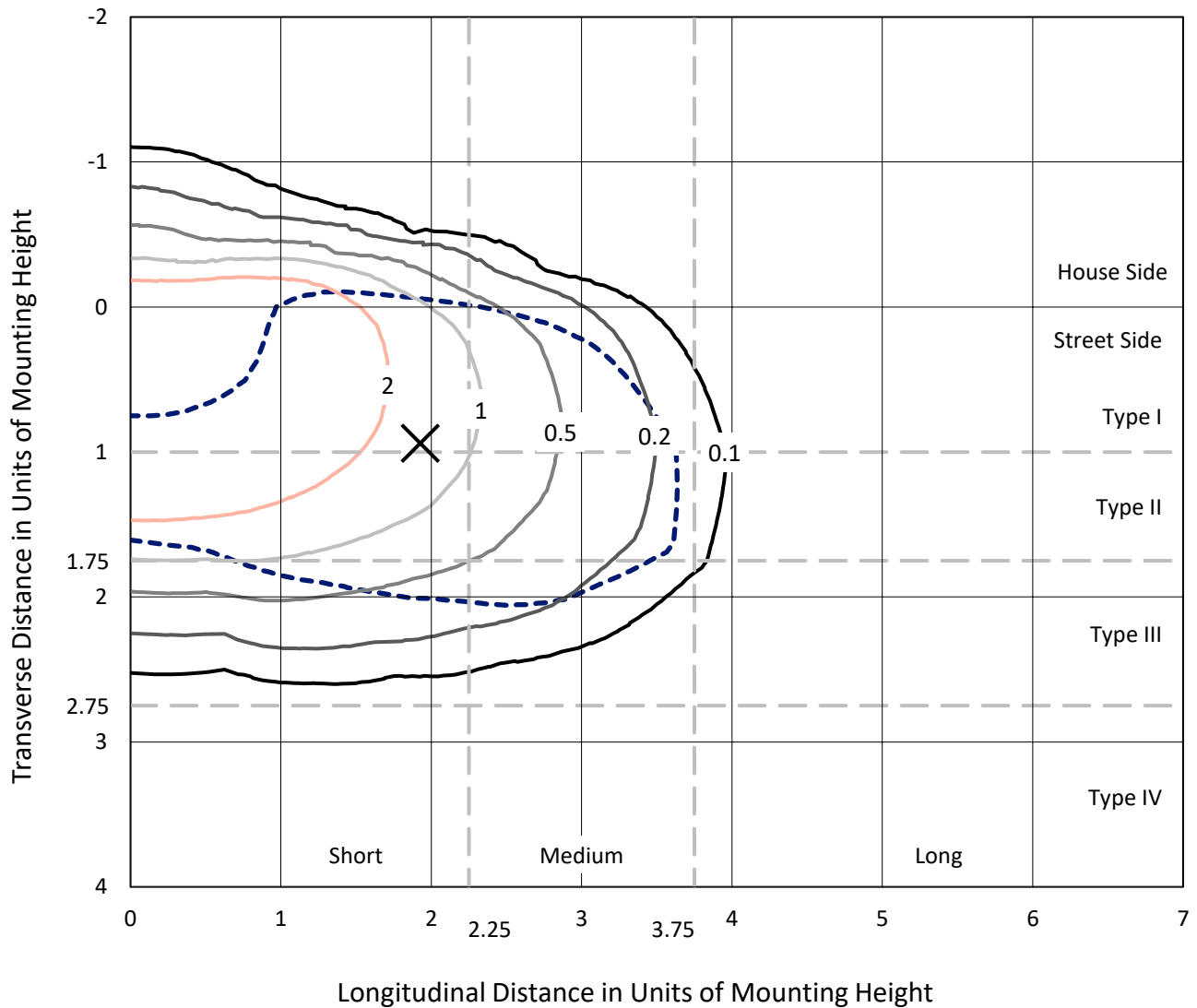
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

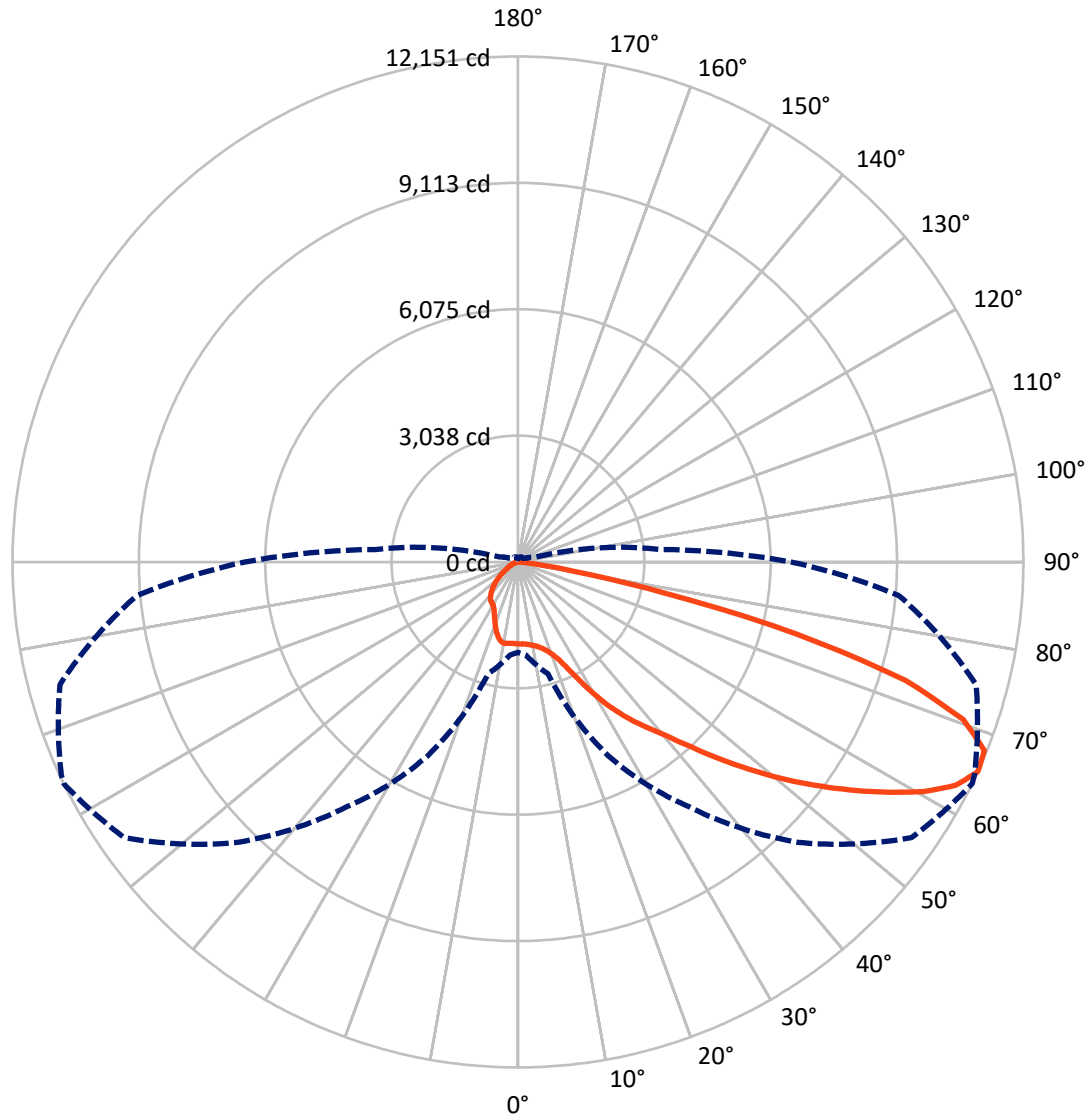
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2264.1	0.0	2264.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14665.9	0.0	14665.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	16930.0	0.0	16930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	1.1
10°-20°	492.7	2.9
20°-30°	933.7	5.5
30°-40°	1889.4	11.2
40°-50°	3218.6	19.0
50°-60°	4377.1	25.9
60°-70°	4110.3	24.3
70°-80°	1646.8	9.7
80°-90°	79.8	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°	16930.0	100.0
0°-180°	16930.0	100.0

Coefficient of Utilization



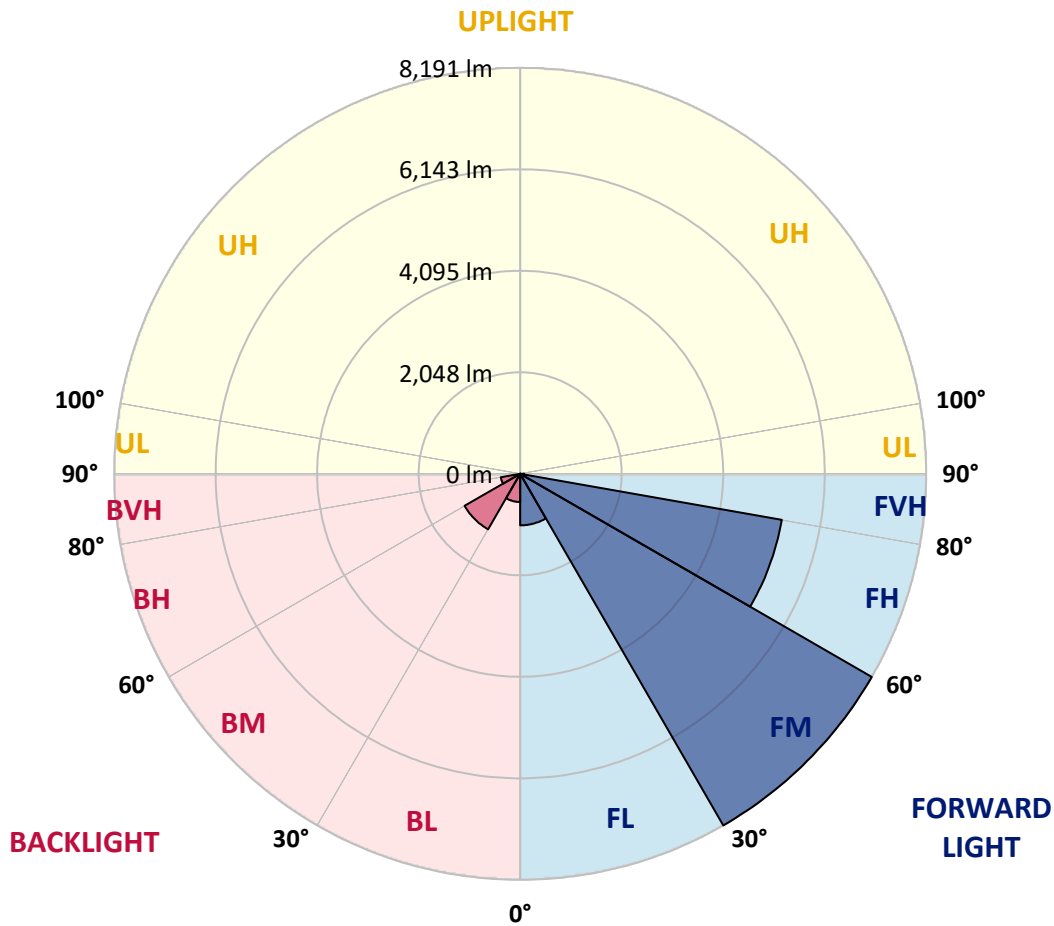
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.7	6.1			
FM (30°-60°)	8190.7	48.4			
FH (60°-80°)	5359.7	31.7			G3/7500
FVH (80°-90°)	75.9	0.4			G1/100
BL (0°-30°)	568.4	3.4	B2/1000		
BM (30°-60°)	1294.3	7.6	B2/2500		
BH (60°-80°)	397.4	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°	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1
2.5°	1962.3	1975.9	1972.5	1969.1	1968.0	1970.3	1971.4	1970.3	1970.3	1970.3
5°	1924.9	1936.2	1936.2	1944.2	1955.5	1969.1	1979.3	1981.6	1983.9	1987.3
7.5°	1853.4	1862.4	1869.3	1895.4	1923.7	1960.1	1990.7	2006.6	2008.9	2021.3
10°	1804.6	1815.9	1827.3	1854.5	1895.4	1949.8	2002.0	2040.6	2046.3	2075.8
12.5°	1802.3	1813.6	1828.4	1857.9	1905.6	1963.5	2027.0	2082.6	2092.8	2136.0
15°	1826.1	1839.8	1853.4	1889.7	1940.8	2011.1	2079.2	2148.5	2158.7	2220.0
17.5°	1874.9	1893.1	1903.3	1939.6	1994.1	2072.4	2162.1	2241.5	2250.6	2322.1
20°	1971.4	1993.0	1996.4	2025.9	2079.2	2163.2	2269.9	2368.6	2380.0	2461.7
22.5°	2171.2	2201.8	2174.6	2189.3	2237.0	2321.0	2436.7	2561.6	2577.5	2670.5
25°	2523.0	2566.1	2495.8	2470.8	2491.2	2578.6	2723.9	2881.6	2899.8	2974.7
27.5°	3214.2	3158.6	3051.9	2947.5	2886.2	2936.1	3099.5	3294.8	3317.5	3390.1
30°	3973.5	3924.7	3780.5	3549.0	3403.7	3395.8	3546.7	3764.6	3790.7	3860.0
32.5°	4733.9	4687.3	4530.7	4245.8	3993.9	3869.0	3973.5	4215.2	4228.8	4273.1
35°	5481.8	5434.1	5277.5	4985.8	4676.0	4392.2	4371.8	4644.2	4648.7	4695.3
37.5°	6234.3	6194.5	6027.7	5741.7	5436.4	5044.8	4855.3	5050.5	5056.2	5101.6
40°	6771.1	6788.1	6673.5	6452.2	6190.0	5762.1	5397.8	5482.9	5448.9	5524.9
42.5°	7231.9	7265.9	7166.1	7054.8	6902.8	6526.0	6069.7	6054.9	6000.5	6041.3
45°	7630.3	7658.6	7569.0	7542.9	7539.5	7275.0	6804.0	6715.5	6639.4	6631.5
47.5°	7776.7	7831.1	7869.7	7957.1	8127.4	8016.1	7563.3	7426.0	7340.8	7278.4
50°	7832.3	7890.2	8021.8	8276.0	8678.9	8726.6	8319.2	8164.8	8060.4	7946.9
52.5°	7757.4	7860.6	8037.7	8465.6	9050.1	9296.4	9044.4	8909.3	8790.2	8605.2
55°	7315.9	7419.2	7781.2	8463.3	9235.1	9695.9	9729.9	9669.8	9535.8	9244.2
57.5°	6385.2	6538.4	7111.6	8175.0	9231.7	10039.8	10401.8	10444.9	10295.1	9877.5
60°	5095.9	5303.6	6002.7	7536.1	8946.8	10225.9	10990.8	11206.5	11047.6	10501.7
62.5°	3555.8	3796.4	4458.1	6535.0	8295.3	10092.0	11421.0	11819.3	11699.0	11060.1
65°	2168.9	2246.1	2779.5	5142.4	7187.6	9531.3	11553.8	12150.8	12111.0	11401.7
67.5°	1444.8	1509.5	1662.7	3526.3	5579.4	8411.1	11236.0	12092.9	12104.2	11346.1
70°	870.5	926.1	1026.0	2050.9	3615.9	6657.6	10252.0	11355.2	11421.0	10602.7
72.5°	358.6	396.1	486.9	929.5	1872.7	4225.4	8163.7	9749.2	9902.4	8915.0
75°	203.2	222.4	286.0	466.5	812.6	1969.1	4945.0	6920.9	7146.8	6144.6
77.5°	135.1	144.1	185.0	301.9	457.4	671.9	2113.3	3605.7	4037.0	3356.0
80°	90.8	98.7	127.1	202.0	297.4	288.3	673.0	1335.8	1643.4	1153.1
82.5°	61.3	62.4	90.8	132.8	188.4	139.6	198.6	415.4	522.1	333.7
85°	35.2	34.0	67.0	77.2	84.0	57.9	60.2	124.8	163.4	140.7
87.5°	4.5	6.8	26.1	20.4	11.3	12.5	12.5	21.6	31.8	34.0
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°
1969.1	0°	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1	1969.1
1971.4	2.5°	1971.4	1970.3	1966.9	1963.5	1955.5	1951.0	1953.2	1951.0	1949.8	1951.0
1986.2	5°	1986.2	1982.8	1973.7	1962.3	1946.4	1927.1	1914.7	1896.5	1879.5	1869.3
2025.9	7.5°	2025.9	2022.5	2010.0	1978.2	1927.1	1846.6	1772.8	1708.1	1659.3	1630.9
2089.4	10°	2089.4	2083.8	2064.5	1994.1	1860.2	1684.3	1537.9	1416.4	1337.0	1299.5
2164.3	12.5°	2164.3	2157.5	2123.5	1979.3	1733.1	1458.4	1256.4	1121.3	1047.6	1014.6
2250.6	15°	2252.9	2243.8	2176.8	1909.0	1548.1	1208.7	1023.7	922.7	875.0	845.5
2360.7	17.5°	2363.0	2347.1	2216.6	1803.4	1347.2	1018.0	880.7	804.7	762.7	734.3
2504.8	20°	2506.0	2479.9	2248.3	1677.5	1162.2	897.7	784.2	720.7	688.9	663.9
2709.1	22.5°	2705.7	2668.3	2286.9	1541.3	1031.7	814.9	712.7	666.2	640.1	611.7
2994.0	25°	2953.1	2908.9	2334.6	1415.3	942.0	743.4	660.5	622.0	591.3	558.4
3367.4	27.5°	3299.3	3219.8	2391.3	1312.0	864.8	682.1	612.9	569.7	534.6	507.3
3790.7	30°	3685.2	3554.7	2441.3	1249.6	794.5	625.4	550.4	507.3	474.4	455.1
4170.9	32.5°	4050.6	3873.6	2474.2	1222.3	730.9	560.7	482.4	435.8	410.9	405.2
4543.2	35°	4395.7	4161.9	2470.8	1196.2	674.2	496.0	415.4	367.7	348.4	351.8
4943.8	37.5°	4792.9	4469.4	2446.9	1155.4	627.6	437.0	357.5	315.5	298.5	299.6
5430.7	40°	5254.8	4824.7	2432.2	1078.2	576.6	382.5	309.8	275.8	263.3	258.8
5943.7	42.5°	5747.4	5168.6	2434.5	990.8	513.0	333.7	276.9	248.6	237.2	233.8
6514.6	45°	6242.2	5496.6	2437.9	900.0	446.0	296.2	253.1	229.3	222.4	217.9
7093.4	47.5°	6707.5	5775.8	2374.3	802.4	380.2	267.8	233.8	217.9	212.2	206.6
7674.5	50°	7141.1	5961.9	2221.1	688.9	328.0	245.1	219.0	207.7	202.0	196.3
8201.1	52.5°	7478.2	5991.4	1968.0	572.0	291.7	228.1	210.0	199.8	192.9	187.3
8626.7	55°	7628.0	5806.4	1608.2	463.1	263.3	213.4	200.9	190.7	182.7	177.1
8961.5	57.5°	7589.4	5417.1	1254.1	372.3	236.1	198.6	189.5	182.7	173.6	164.6
9232.8	60°	7399.9	4896.2	945.4	309.8	211.1	182.7	177.1	171.4	158.9	145.3
9337.2	62.5°	7071.9	4241.3	674.2	256.5	183.9	164.6	162.3	157.8	139.6	114.6
9182.9	65°	6570.2	3445.7	454.0	213.4	157.8	144.1	145.3	137.3	113.5	85.1
8617.7	67.5°	5837.0	2519.6	290.5	174.8	131.7	120.3	121.4	116.9	96.5	72.6
7546.3	70°	4903.0	1668.4	189.5	132.8	105.6	93.1	99.9	101.0	81.7	59.0
5791.6	72.5°	3594.4	985.1	132.8	98.7	77.2	64.7	81.7	84.0	65.8	44.3
3484.3	75°	2048.6	467.6	99.9	71.5	47.7	45.4	63.6	63.6	45.4	29.5
1508.3	77.5°	860.3	195.2	70.4	46.5	27.2	26.1	43.1	39.7	22.7	13.6
367.7	80°	248.6	87.4	37.5	22.7	11.3	10.2	17.0	12.5	5.7	2.3
139.6	82.5°	97.6	38.6	14.8	9.1	4.5	4.5	2.3	0.0	0.0	0.0
79.4	85°	57.9	15.9	6.8	3.4	1.1	0.0	0.0	0.0	0.0	0.0
17.0	87.5°	14.8	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>
1969.1
1955.5
1871.5
1632.1
1296.1
1011.2
846.7
732.0
659.4
607.2
555.0
501.6
451.7
408.6
351.8
304.2
257.6
232.7
217.9
206.6
196.3
186.1
175.9
163.4
143.0
112.4
82.9
69.2
56.7
42.0
27.2
13.6
2.3
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