

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: P949341

Luminaire Tested: **GALN-SB4A-840-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

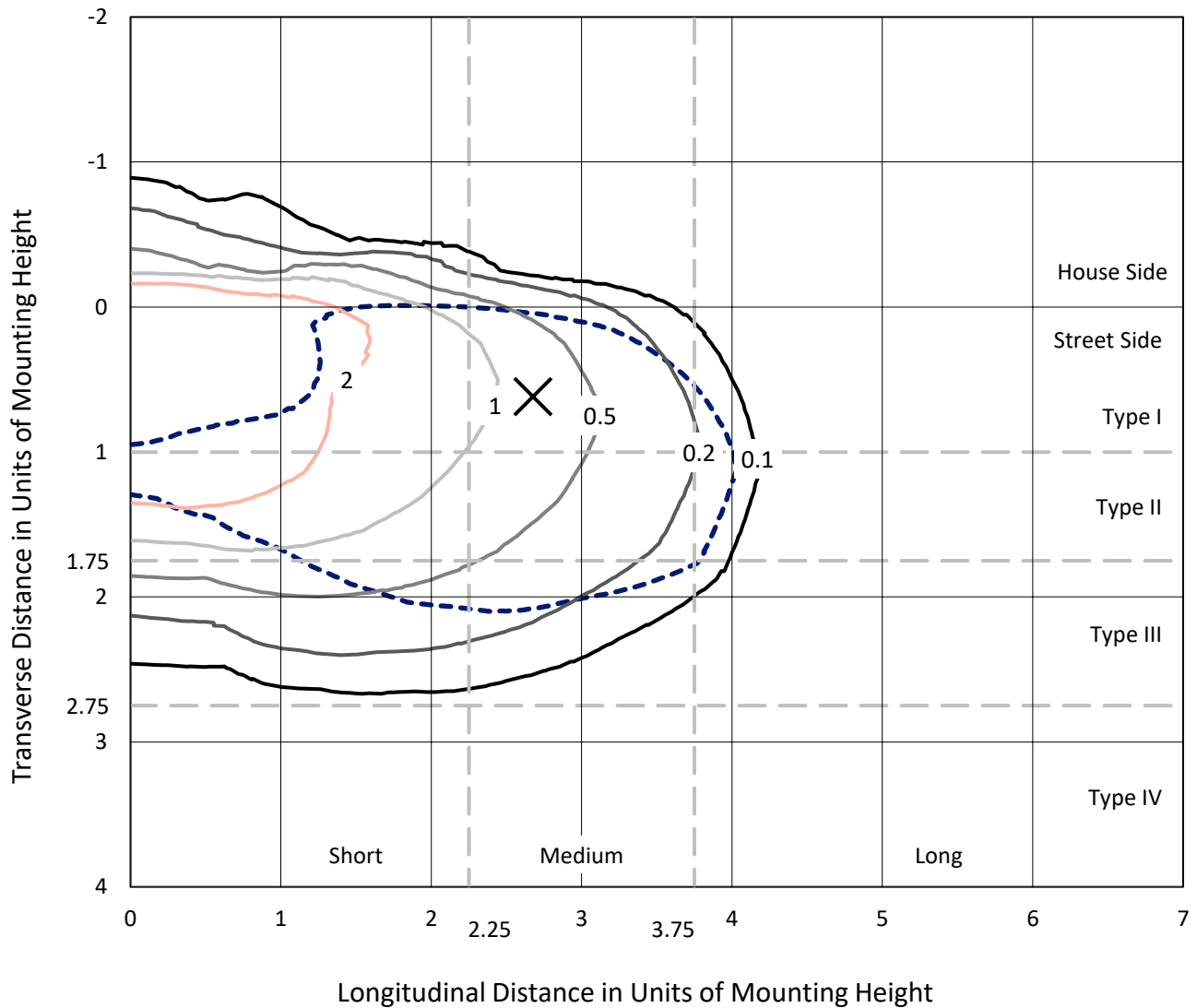
Lumens per Lamp: N/A  
Luminaire Lumens: 14317 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

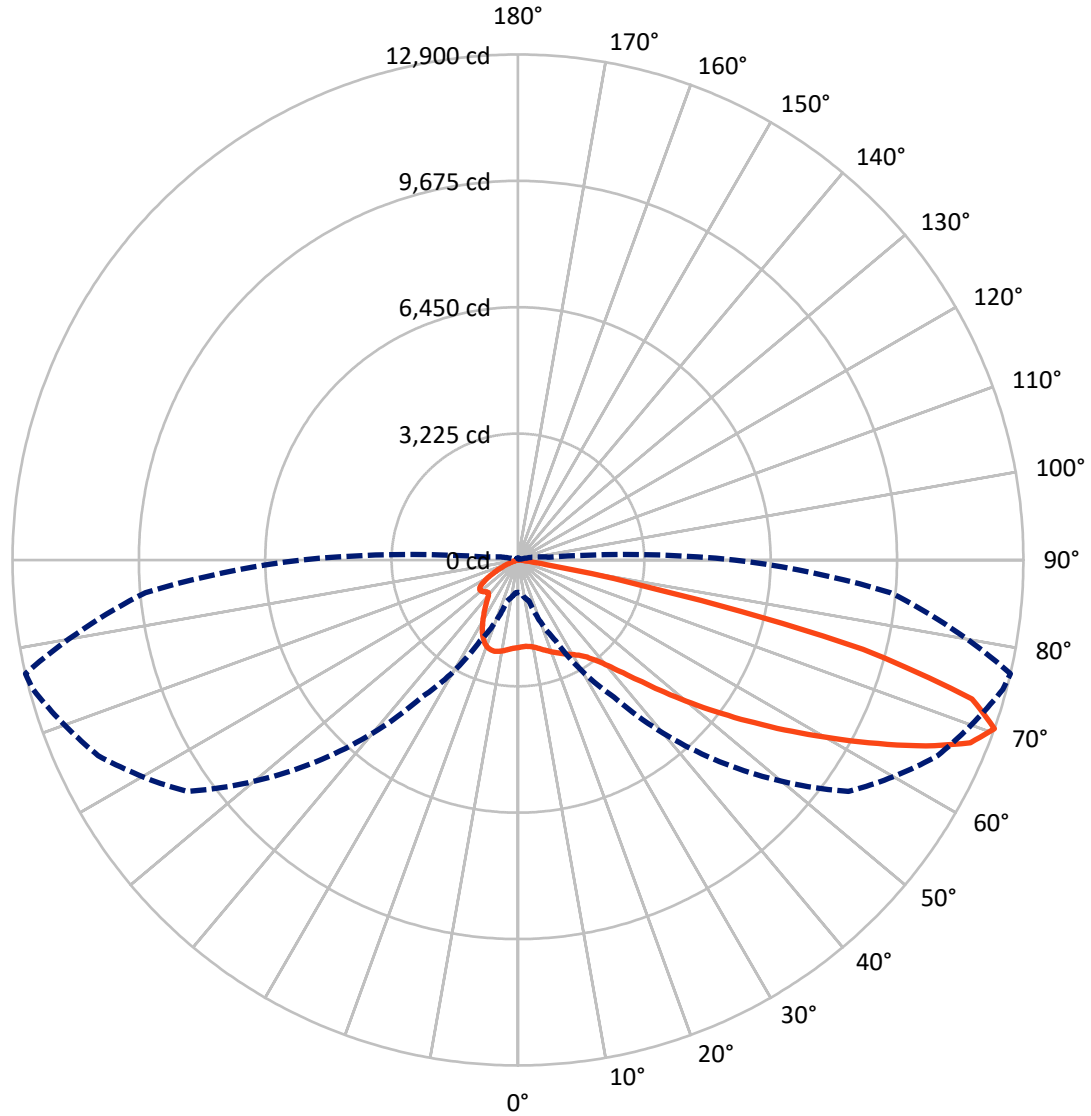
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1509.2	0.0	1509.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	12807.8	0.0	12807.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	14317.0	0.0	14317.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.5	1.3
10°-20°	456.9	3.2
20°-30°	706.7	4.9
30°-40°	1282.3	9.0
40°-50°	2420.5	16.9
50°-60°	3497.5	24.4
60°-70°	3723.0	26.0
70°-80°	1972.9	13.8
80°-90°	64.8	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°	14317.0	100.0
0°-180°	14317.0	100.0

**Coefficient of Utilization**



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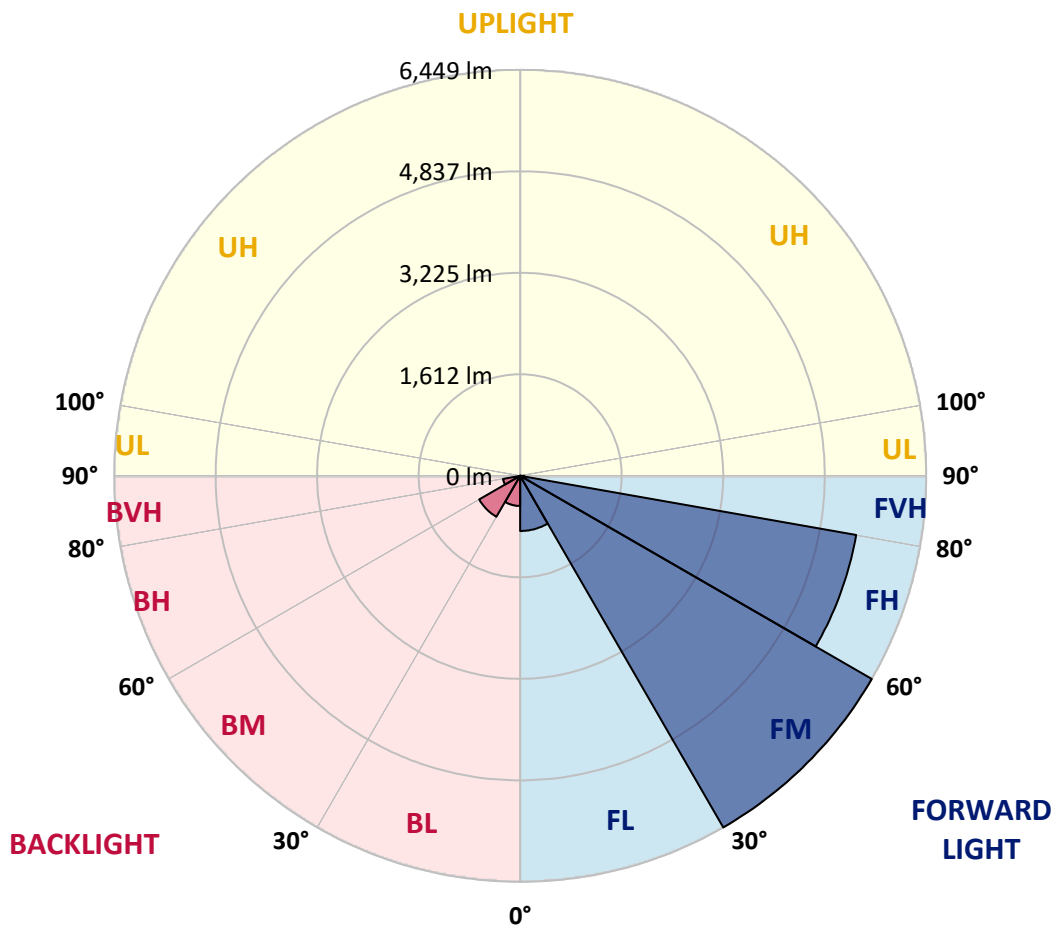
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.5	6.1			
FM (30°-60°)	6449.0	45.0			
FH (60°-80°)	5419.2	37.9			G3/7500
FVH (80°-90°)	63.0	0.4			G1/100
BL (0°-30°)	479.5	3.3	B1/500		
BM (30°-60°)	751.3	5.2	B1/1000		
BH (60°-80°)	276.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2
2.5°	2096.7	2115.7	2112.9	2125.6	2130.1	2148.2	2166.3	2190.7	2217.8	2216.9
5°	1978.2	1997.2	2001.7	2018.9	2040.6	2068.6	2105.7	2154.5	2205.2	2213.3
7.5°	1838.1	1858.0	1869.7	1904.1	1943.9	2001.7	2062.3	2133.7	2217.8	2229.6
10°	1698.0	1716.0	1731.4	1780.2	1843.5	1929.4	2028.0	2131.0	2244.0	2261.2
12.5°	1611.2	1628.3	1645.5	1688.0	1766.7	1871.5	2005.4	2143.7	2287.4	2311.9
15°	1580.4	1595.8	1609.3	1647.3	1720.6	1839.9	2000.8	2169.9	2342.6	2375.1
17.5°	1584.9	1593.1	1602.1	1631.0	1702.5	1825.4	2009.0	2215.1	2407.7	2436.6
20°	1611.2	1615.7	1616.6	1636.5	1699.8	1823.6	2025.2	2258.5	2469.2	2508.0
22.5°	1644.6	1646.4	1644.6	1658.2	1716.9	1837.2	2046.9	2310.9	2537.9	2574.0
25°	1801.0	1766.7	1723.3	1697.0	1745.9	1863.4	2079.5	2381.5	2612.9	2648.2
27.5°	2286.5	2188.0	2032.5	1858.0	1805.5	1901.4	2124.7	2452.9	2688.9	2720.5
30°	3074.9	2945.6	2681.6	2288.3	1997.2	1980.9	2183.5	2524.3	2769.3	2803.7
32.5°	3865.1	3833.5	3528.8	2984.5	2428.5	2158.2	2281.1	2621.1	2876.0	2903.2
35°	4664.4	4600.2	4350.7	3812.7	3093.0	2518.9	2443.9	2747.6	3016.2	3046.9
37.5°	5276.5	5237.6	5083.0	4640.0	3881.4	3075.8	2722.3	2943.8	3219.6	3254.0
40°	5817.2	5799.1	5746.6	5454.6	4762.9	3804.6	3155.4	3247.6	3501.7	3542.4
42.5°	6242.1	6284.6	6314.4	6233.1	5671.6	4636.4	3737.7	3674.4	3895.0	3936.6
45°	6677.0	6691.4	6811.7	6929.2	6573.9	5506.1	4394.1	4174.4	4384.1	4435.6
47.5°	6956.4	7014.2	7225.8	7432.8	7332.5	6368.7	5099.3	4764.7	4951.0	5047.7
50°	6977.1	7086.5	7377.7	7738.4	7884.9	7189.6	5866.0	5437.4	5635.4	5742.1
52.5°	6630.9	6800.8	7252.0	7780.0	8183.3	7884.9	6658.9	6110.1	6364.1	6503.4
55°	5083.9	5306.3	6779.1	7554.0	8195.0	8412.0	7431.0	6810.8	7176.1	7333.4
57.5°	4429.3	4541.4	5329.8	7161.6	7977.1	8624.5	8129.0	7478.0	8059.4	8254.7
60°	3685.2	3832.6	4470.0	6519.7	7681.5	8645.3	8745.6	8338.8	9016.9	9236.6
62.5°	2504.4	2664.5	3298.3	5416.6	7277.3	8635.3	9251.0	9224.8	10081.0	10317.0
65°	1551.5	1651.8	2069.5	4423.0	6712.2	8646.2	9779.9	10300.7	11203.9	11443.5
67.5°	1226.0	1272.1	1490.0	3395.9	5738.5	8402.1	10308.0	11312.4	12260.9	12450.7
70°	823.7	851.7	1084.0	2276.6	4269.3	7275.5	10298.0	11820.6	12805.1	12900.1
72.5°	434.0	455.7	633.8	1054.2	2578.6	5171.6	8680.5	11213.0	12263.6	12120.7
75°	217.0	253.2	426.7	535.2	1101.2	2884.2	5390.4	8840.6	9652.5	9099.1
77.5°	164.6	198.9	352.6	352.6	383.3	971.0	2282.9	4821.7	4447.4	3703.3
80°	104.9	135.6	308.3	266.7	160.0	246.8	594.9	1350.8	944.8	718.8
82.5°	61.5	88.6	256.8	176.3	89.5	91.3	168.2	287.5	245.0	190.8
85°	24.4	57.9	176.3	69.6	35.3	22.6	50.6	61.5	50.6	38.0
87.5°	0.0	13.6	30.7	0.0	2.7	1.8	3.6	4.5	4.5	3.6
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°
2233.2	0°	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2	2233.2
2235.0	2.5°	2243.1	2244.9	2250.4	2251.3	2238.6	2222.3	2216.0	2213.3	2202.5	2201.5
2249.5	5°	2270.3	2278.4	2270.3	2246.8	2190.7	2112.0	2052.4	2003.5	1959.2	1945.7
2299.2	7.5°	2324.5	2332.6	2308.2	2216.0	2075.0	1918.6	1777.5	1678.1	1588.6	1555.1
2359.8	10°	2402.3	2413.1	2336.3	2150.0	1900.5	1649.1	1410.4	1242.3	1111.2	1057.8
2442.0	12.5°	2499.9	2504.4	2351.6	2049.7	1673.5	1314.6	976.5	796.5	679.9	636.5
2541.5	15°	2607.5	2601.2	2353.4	1913.1	1364.3	929.4	637.4	523.5	476.5	462.0
2641.0	17.5°	2720.5	2694.3	2317.3	1716.0	1025.3	635.6	472.9	445.7	437.6	434.0
2739.5	20°	2831.7	2773.0	2251.3	1458.4	736.0	474.7	429.5	421.3	416.8	415.0
2839.0	22.5°	2933.0	2832.6	2138.3	1159.1	534.3	419.5	406.0	398.7	390.6	387.0
2935.7	25°	3031.5	2867.0	1979.1	879.7	427.7	392.4	381.5	368.0	357.1	352.6
3039.7	27.5°	3127.4	2888.7	1780.2	651.0	381.5	367.1	347.2	328.2	320.1	318.3
3150.9	30°	3229.5	2895.9	1554.2	485.5	353.5	335.4	306.5	284.8	280.3	281.2
3301.0	32.5°	3354.3	2906.8	1326.4	397.8	330.0	297.5	263.1	240.5	236.9	240.5
3519.8	35°	3503.5	2928.5	1106.7	366.2	309.2	258.6	221.5	202.5	198.9	201.6
3800.0	37.5°	3706.0	2963.7	901.4	359.8	292.0	226.0	186.3	170.9	170.9	171.8
4143.6	40°	3975.4	3057.8	717.9	355.3	283.0	201.6	157.3	151.0	153.7	155.5
4581.2	42.5°	4303.6	3257.6	594.0	349.9	273.0	190.8	142.9	140.1	144.7	146.5
5105.6	45°	4671.6	3510.7	550.6	340.9	264.0	198.0	136.5	132.9	138.3	139.2
5693.3	47.5°	5052.3	3758.5	545.2	330.9	255.0	208.9	134.7	126.6	132.9	133.8
6320.8	50°	5437.4	3920.3	550.6	315.5	240.5	208.9	135.6	120.2	125.7	128.4
6971.7	52.5°	5825.3	3994.4	547.0	282.1	215.2	196.2	135.6	114.8	120.2	122.1
7675.1	55°	6201.4	3980.0	491.8	232.4	182.6	173.6	132.0	110.3	113.9	114.8
8339.7	57.5°	6498.9	3778.3	389.7	180.8	148.3	144.7	120.2	104.9	107.6	106.7
8949.0	60°	6654.4	3335.3	278.5	139.2	116.6	113.9	105.8	97.6	99.5	94.9
9465.3	62.5°	6656.2	2749.4	186.3	110.3	93.1	90.4	90.4	87.7	85.9	76.9
9864.9	65°	6514.2	2099.4	123.9	87.7	75.0	70.5	75.9	75.0	68.7	56.1
9987.0	67.5°	6192.4	1376.1	94.0	68.7	57.9	55.2	60.6	63.3	58.8	47.0
9542.2	70°	5530.5	801.1	77.8	53.3	43.4	40.7	48.8	54.2	48.8	38.0
8156.1	72.5°	4593.9	432.2	63.3	39.8	29.8	27.1	38.9	44.3	38.9	28.0
5233.1	75°	2980.9	231.5	48.8	26.2	15.4	17.2	28.9	32.5	27.1	18.1
1536.1	77.5°	1000.9	102.2	30.7	12.7	7.2	7.2	17.2	19.9	12.7	6.3
279.4	80°	223.3	42.5	12.7	5.4	2.7	2.7	3.6	3.6	1.8	0.0
85.9	82.5°	73.2	17.2	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0
21.7	85°	28.0	6.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	10.8	0.9	0.0	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

180°
2233.2
2203.4
1937.5
1541.5
1035.2
622.9
462.0
433.1
413.2
386.1
350.8
316.4
281.2
239.6
200.7
170.9
155.5
146.5
140.1
134.7
129.3
122.1
114.8
106.7
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