

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: P949803

Luminaire Tested: **GALN-SB4B-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949803  
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-SB4B-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

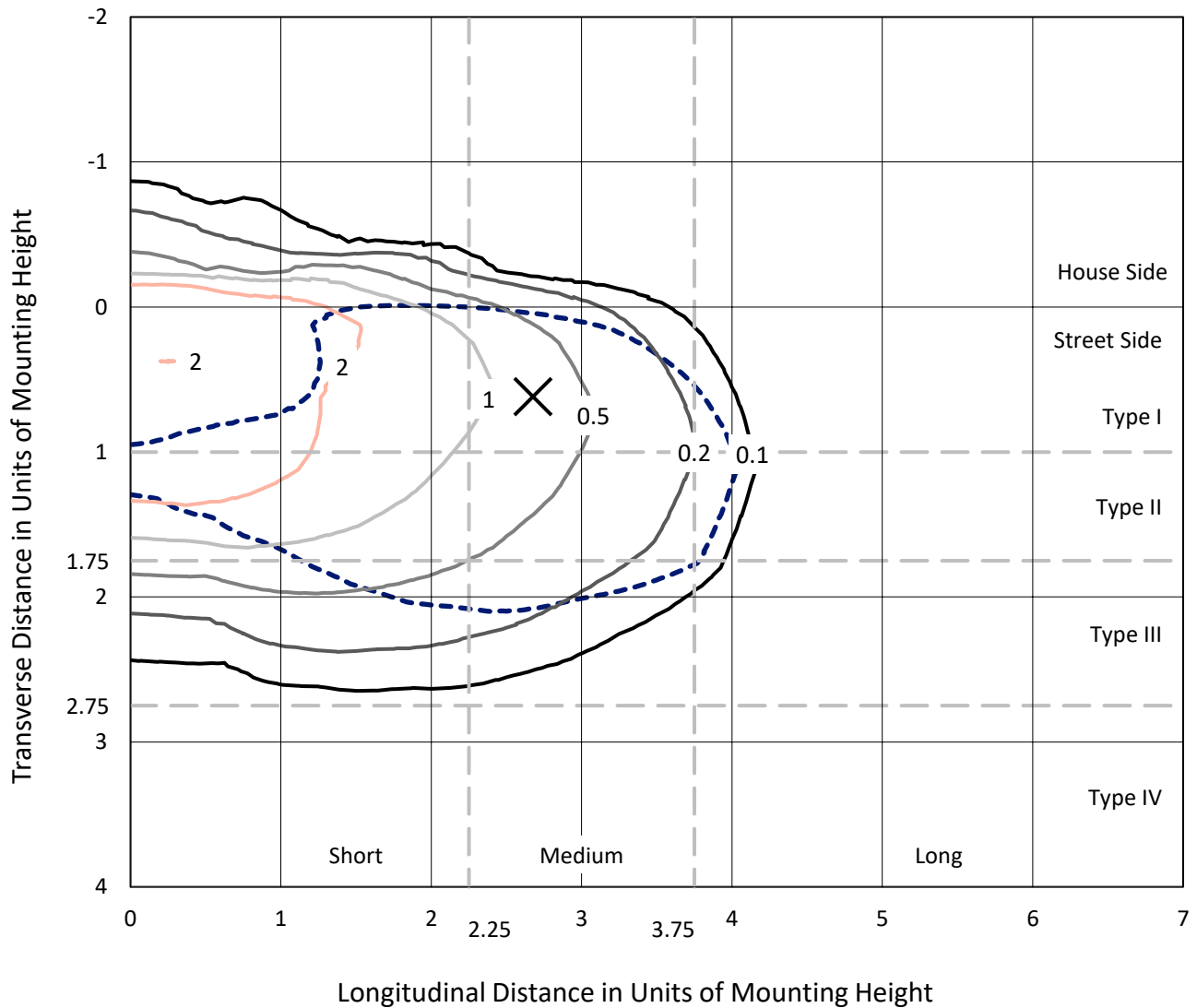
Lumens per Lamp: N/A  
Luminaire Lumens: 13615 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

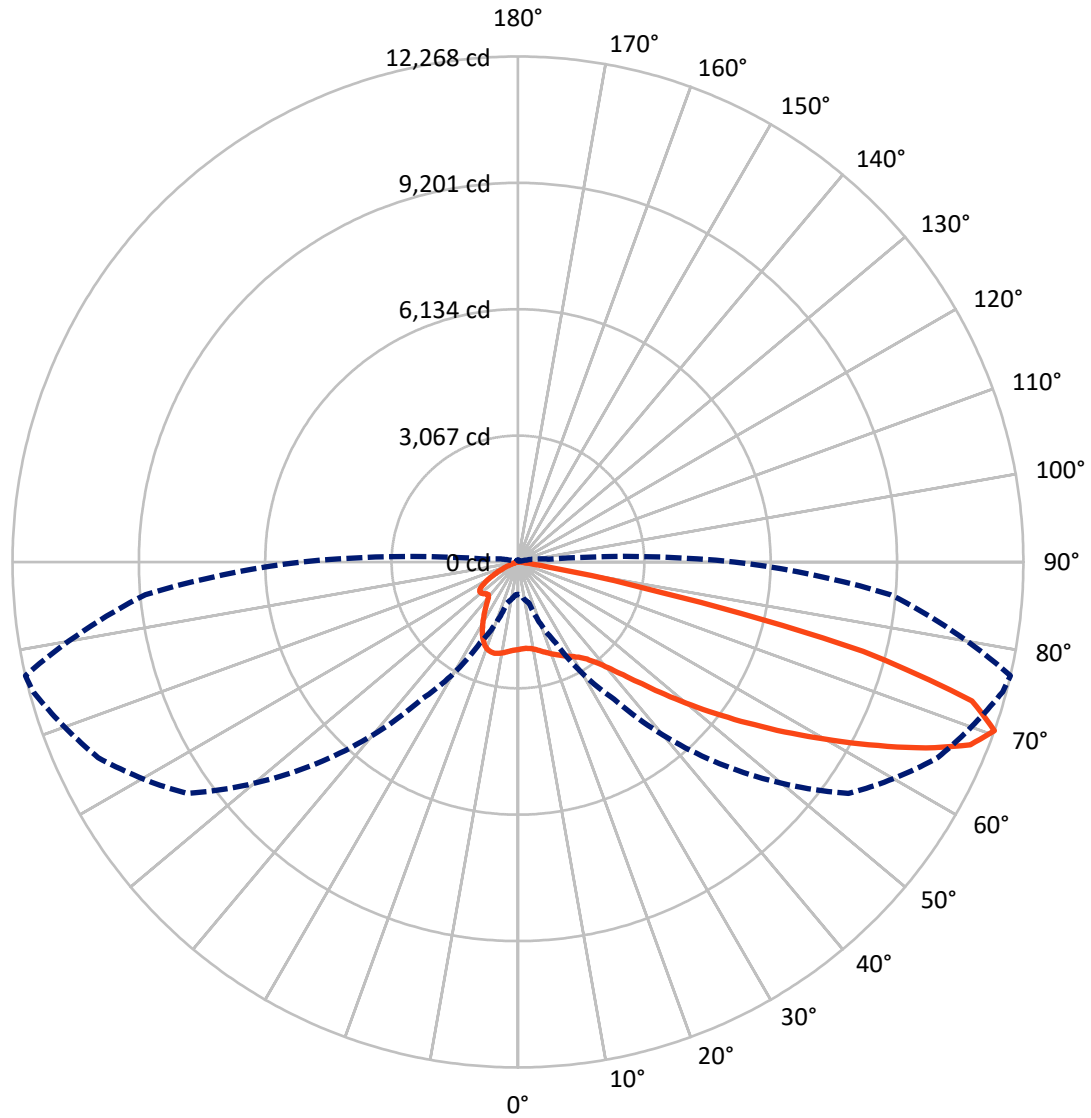
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1435.2	0.0	1435.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	12179.8	0.0	12179.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	13615.0	0.0	13615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.0	1.3
10°-20°	434.5	3.2
20°-30°	672.0	4.9
30°-40°	1219.4	9.0
40°-50°	2301.8	16.9
50°-60°	3326.0	24.4
60°-70°	3540.4	26.0
70°-80°	1876.2	13.8
80°-90°	61.6	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°	13615.0	100.0
0°-180°	13615.0	100.0

**Coefficient of Utilization**



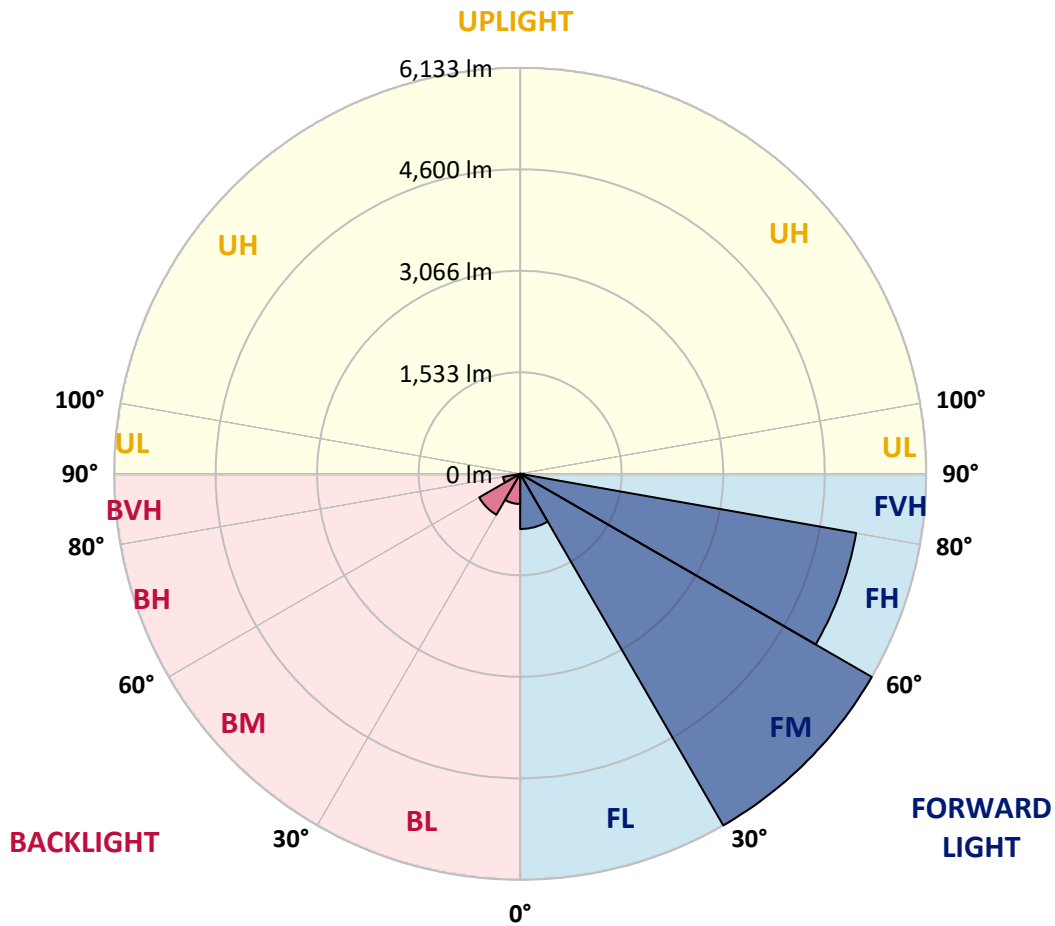
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.6	6.1			
FM (30°-60°)	6132.8	45.0			
FH (60°-80°)	5153.5	37.9			G3/7500
FVH (80°-90°)	59.9	0.4			G1/100
BL (0°-30°)	456.0	3.3	B1/500		
BM (30°-60°)	714.5	5.2	B1/1000		
BH (60°-80°)	263.1	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°	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7
2.5°	1993.9	2011.9	2009.3	2021.4	2025.7	2042.9	2060.1	2083.3	2109.1	2108.2
5°	1881.2	1899.3	1903.6	1919.9	1940.6	1967.2	2002.5	2048.9	2097.0	2104.8
7.5°	1748.0	1766.9	1778.1	1810.7	1848.6	1903.6	1961.2	2029.1	2109.1	2120.3
10°	1614.7	1631.9	1646.5	1692.9	1753.1	1834.8	1928.5	2026.5	2134.0	2150.3
12.5°	1532.2	1548.5	1564.8	1605.2	1680.0	1779.8	1907.0	2038.6	2175.3	2198.5
15°	1502.9	1517.5	1530.4	1566.5	1636.2	1749.7	1902.7	2063.5	2227.7	2258.7
17.5°	1507.2	1515.0	1523.6	1551.1	1619.0	1735.9	1910.5	2106.5	2289.6	2317.1
20°	1532.2	1536.5	1537.3	1556.2	1616.4	1734.2	1925.9	2147.8	2348.1	2385.1
22.5°	1564.0	1565.7	1564.0	1576.9	1632.8	1747.1	1946.6	2197.6	2413.4	2447.8
25°	1712.7	1680.0	1638.8	1613.8	1660.3	1772.0	1977.5	2264.7	2484.8	2518.3
27.5°	2174.4	2080.7	1932.8	1766.9	1717.0	1808.1	2020.5	2332.6	2557.0	2587.1
30°	2924.2	2801.2	2550.2	2176.1	1899.3	1883.8	2076.4	2400.5	2633.6	2666.2
32.5°	3675.6	3645.5	3355.8	2838.2	2309.4	2052.3	2169.3	2492.5	2735.0	2760.8
35°	4435.7	4374.6	4137.3	3625.8	2941.4	2395.4	2324.0	2612.9	2868.3	2897.5
37.5°	5017.8	4980.8	4833.8	4412.5	3691.1	2925.0	2588.8	2799.5	3061.7	3094.4
40°	5531.9	5514.7	5464.9	5187.1	4529.4	3618.0	3000.7	3088.4	3330.0	3368.7
42.5°	5936.0	5976.4	6004.8	5927.4	5393.5	4409.0	3554.4	3494.2	3704.0	3743.5
45°	6349.6	6363.3	6477.7	6589.5	6251.6	5236.2	4178.6	3969.7	4169.1	4218.2
47.5°	6615.3	6670.3	6871.5	7068.4	6972.9	6056.4	4849.2	4531.1	4708.2	4800.2
50°	6635.0	6739.1	7015.9	7359.0	7498.3	6837.1	5578.4	5170.8	5359.1	5460.6
52.5°	6305.7	6467.4	6896.4	7398.5	7782.0	7498.3	6332.4	5810.5	6052.1	6184.5
55°	4834.6	5046.1	6446.7	7183.6	7793.2	7999.5	7066.7	6476.8	6824.2	6973.8
57.5°	4212.1	4318.8	5068.5	6810.4	7586.0	8201.6	7730.4	7111.4	7664.2	7849.9
60°	3504.5	3644.7	4250.8	6200.0	7304.8	8221.4	8316.8	7929.9	8574.7	8783.7
62.5°	2381.6	2533.8	3136.5	5151.0	6920.5	8211.9	8797.4	8772.5	9586.7	9811.1
65°	1475.4	1570.8	1968.1	4206.1	6383.1	8222.2	9300.4	9795.6	10654.6	10882.4
67.5°	1165.9	1209.7	1416.9	3229.4	5457.1	7990.1	9802.5	10757.8	11659.7	11840.2
70°	783.3	809.9	1030.9	2165.0	4060.0	6918.8	9793.1	11241.0	12177.3	12267.6
72.5°	412.7	433.3	602.7	1002.5	2452.1	4918.0	8254.9	10663.2	11662.3	11526.4
75°	206.4	240.7	405.8	509.0	1047.2	2742.7	5126.1	8407.1	9179.2	8653.0
77.5°	156.5	189.2	335.3	335.3	364.6	923.4	2171.0	4585.3	4229.3	3521.7
80°	99.7	129.0	293.2	253.6	152.2	234.7	565.7	1284.5	898.5	683.5
82.5°	58.5	84.3	244.2	167.7	85.1	86.8	159.9	273.4	233.0	181.4
85°	23.2	55.0	167.7	66.2	33.5	21.5	48.1	58.5	48.1	36.1
87.5°	0.0	12.9	29.2	0.0	2.6	1.7	3.4	4.3	4.3	3.4
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°
2123.7	0°	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7	2123.7
2125.4	2.5°	2133.2	2134.9	2140.0	2140.9	2128.9	2113.4	2107.4	2104.8	2094.5	2093.6
2139.2	5°	2158.9	2166.7	2158.9	2136.6	2083.3	2008.5	1951.7	1905.3	1863.2	1850.3
2186.5	7.5°	2210.5	2218.3	2195.1	2107.4	1973.2	1824.5	1690.4	1595.8	1510.7	1478.8
2244.1	10°	2284.5	2294.8	2221.7	2044.6	1807.3	1568.3	1341.3	1181.4	1056.7	1006.0
2322.3	12.5°	2377.3	2381.6	2236.3	1949.2	1591.5	1250.1	928.6	757.5	646.6	605.3
2416.9	15°	2479.6	2473.6	2238.0	1819.3	1297.4	883.9	606.2	497.8	453.1	439.4
2511.5	17.5°	2587.1	2562.2	2203.7	1631.9	975.0	604.4	449.7	423.9	416.1	412.7
2605.2	20°	2692.9	2637.0	2140.9	1386.8	699.9	451.4	408.4	400.7	396.4	394.6
2699.8	22.5°	2789.2	2693.7	2033.4	1102.3	508.1	398.9	386.0	379.2	371.4	368.0
2791.8	25°	2882.9	2726.4	1882.1	836.6	406.7	373.2	362.8	349.9	339.6	335.3
2890.6	27.5°	2974.0	2747.0	1692.9	619.1	362.8	349.1	330.2	312.1	304.4	302.6
2996.4	30°	3071.2	2753.9	1478.0	461.7	336.2	319.0	291.5	270.8	266.5	267.4
3139.1	32.5°	3189.8	2764.2	1261.3	378.3	313.8	282.9	250.2	228.7	225.3	228.7
3347.2	35°	3331.7	2784.9	1052.4	348.2	294.0	245.9	210.6	192.6	189.2	191.7
3613.7	37.5°	3524.3	2818.4	857.2	342.2	277.7	214.9	177.1	162.5	162.5	163.4
3940.4	40°	3780.5	2907.8	682.7	337.9	269.1	191.7	149.6	143.6	146.2	147.9
4356.6	42.5°	4092.6	3097.8	564.9	332.7	259.7	181.4	135.8	133.3	137.6	139.3
4855.3	45°	4442.6	3338.6	523.6	324.1	251.1	188.3	129.8	126.4	131.5	132.4
5414.1	47.5°	4804.5	3574.2	518.5	314.7	242.5	198.6	128.1	120.4	126.4	127.2
6010.8	50°	5170.8	3728.1	523.6	300.1	228.7	198.6	129.0	114.4	119.5	122.1
6629.9	52.5°	5539.7	3798.6	520.2	268.3	204.6	186.6	129.0	109.2	114.4	116.1
7298.8	55°	5897.3	3784.8	467.7	221.0	173.7	165.1	125.5	104.9	108.3	109.2
7930.8	57.5°	6180.2	3593.1	370.6	172.0	141.0	137.6	114.4	99.7	102.3	101.5
8510.3	60°	6328.1	3171.8	264.8	132.4	110.9	108.3	100.6	92.9	94.6	90.3
9001.2	62.5°	6329.8	2614.6	177.1	104.9	88.6	86.0	86.0	83.4	81.7	73.1
9381.2	65°	6194.8	1996.4	117.8	83.4	71.4	67.1	72.2	71.4	65.3	53.3
9497.3	67.5°	5888.7	1308.6	89.4	65.3	55.0	52.4	57.6	60.2	55.9	44.7
9074.3	70°	5259.4	761.8	73.9	50.7	41.3	38.7	46.4	51.6	46.4	36.1
7756.2	72.5°	4368.6	411.0	60.2	37.8	28.4	25.8	37.0	42.1	37.0	26.7
4976.5	75°	2834.7	220.1	46.4	24.9	14.6	16.3	27.5	31.0	25.8	17.2
1460.8	77.5°	951.8	97.2	29.2	12.0	6.9	6.9	16.3	18.9	12.0	6.0
265.7	80°	212.4	40.4	12.0	5.2	2.6	2.6	3.4	3.4	1.7	0.0
81.7	82.5°	69.6	16.3	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
20.6	85°	26.7	6.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	10.3	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°
2123.7
2095.3
1842.5
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392.9
367.1
333.6
300.9
267.4
227.8
190.9
162.5
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