

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: P950874

Luminaire Tested: **GALN-SB5A-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950874  
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-SB5A-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

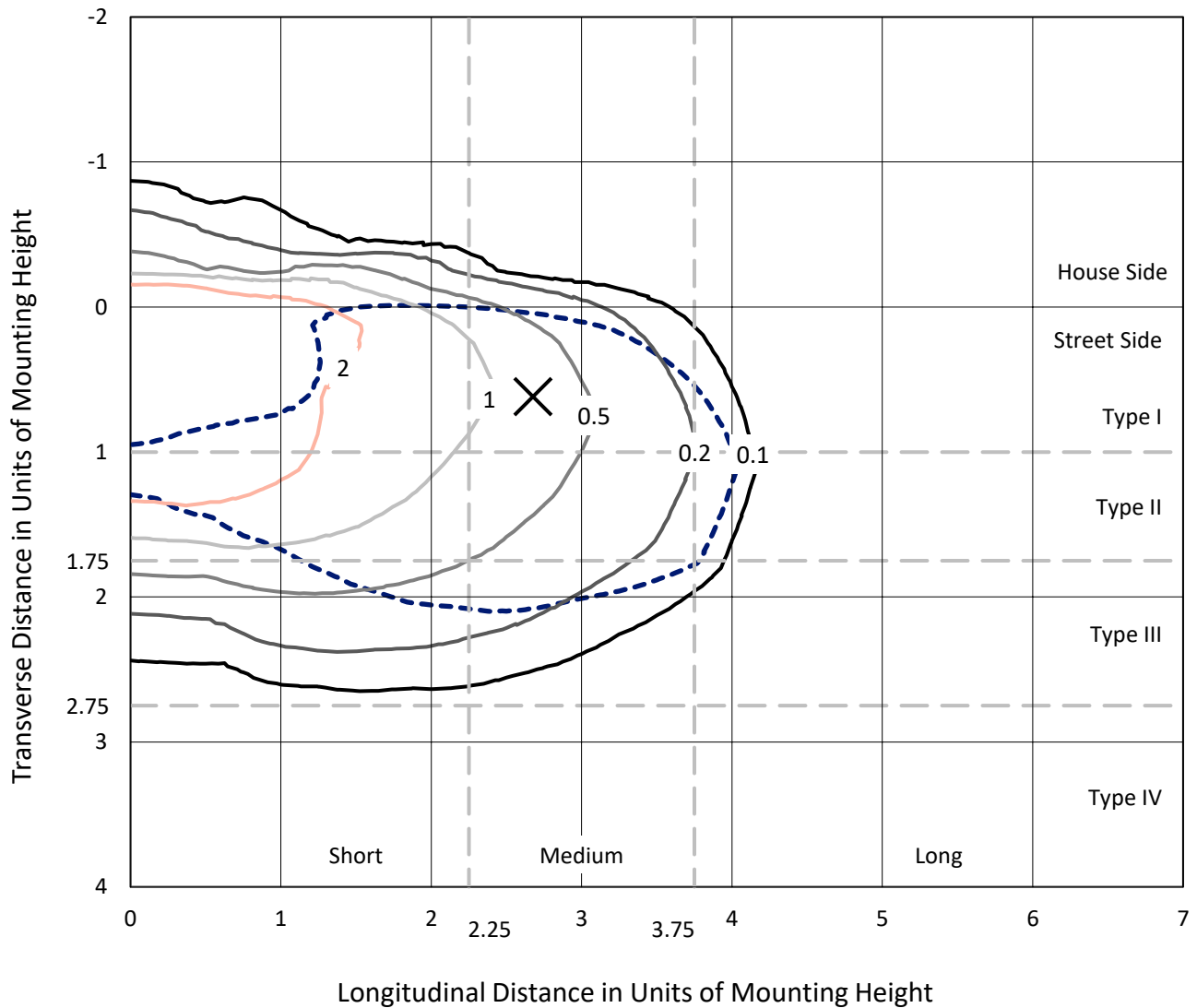
Lumens per Lamp: N/A  
Luminaire Lumens: 13670 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

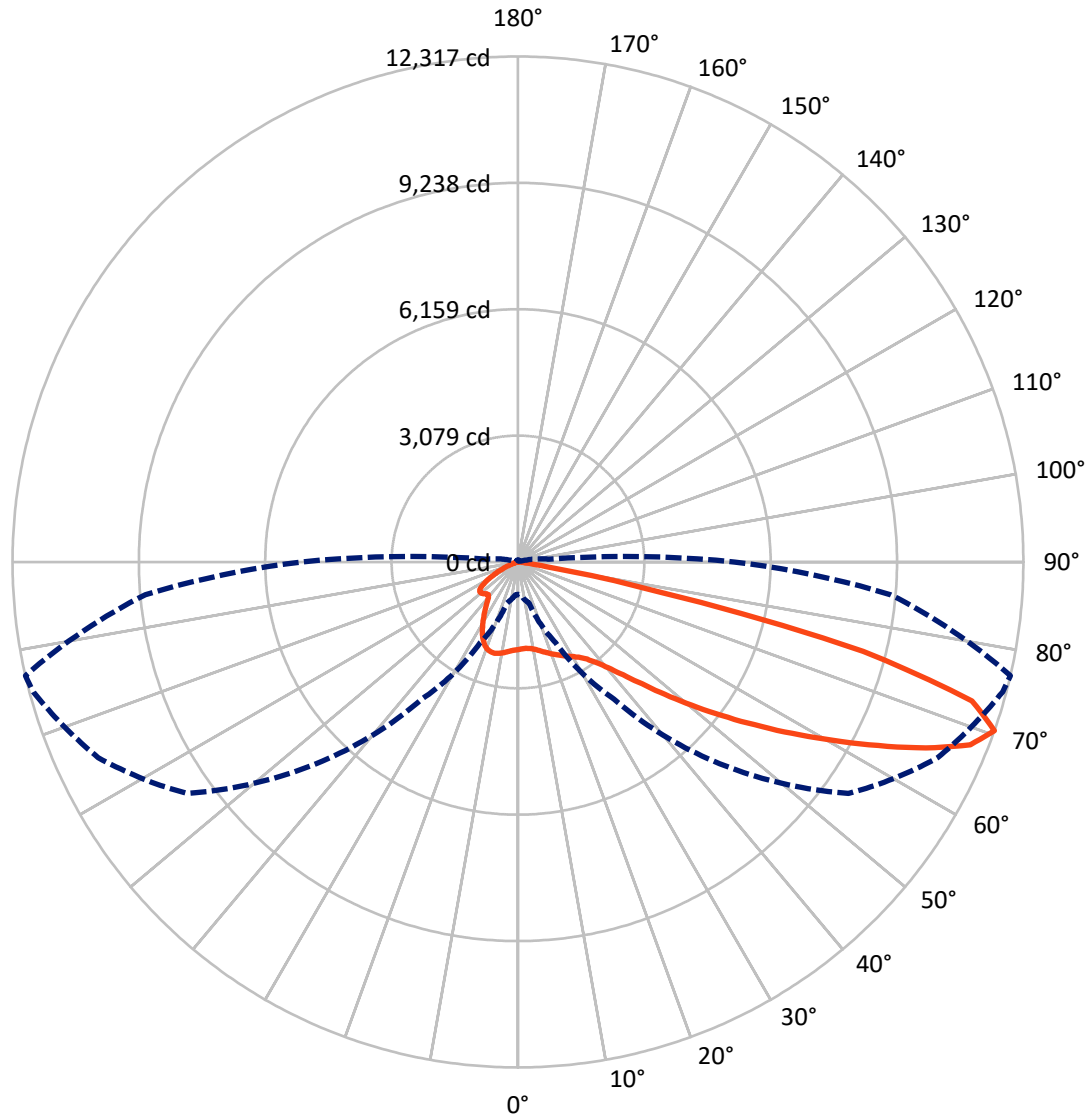
✕ Max cd  
 - - - 1/2 Max cd



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	1441.0	0.0	1441.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	12229.0	0.0	12229.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	13670.0	0.0	13670.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.3
10°-20°	436.2	3.2
20°-30°	674.7	4.9
30°-40°	1224.4	9.0
40°-50°	2311.1	16.9
50°-60°	3339.4	24.4
60°-70°	3554.7	26.0
70°-80°	1883.8	13.8
80°-90°	61.9	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°	13670.0	100.0
0°-180°	13670.0	100.0

**Coefficient of Utilization**



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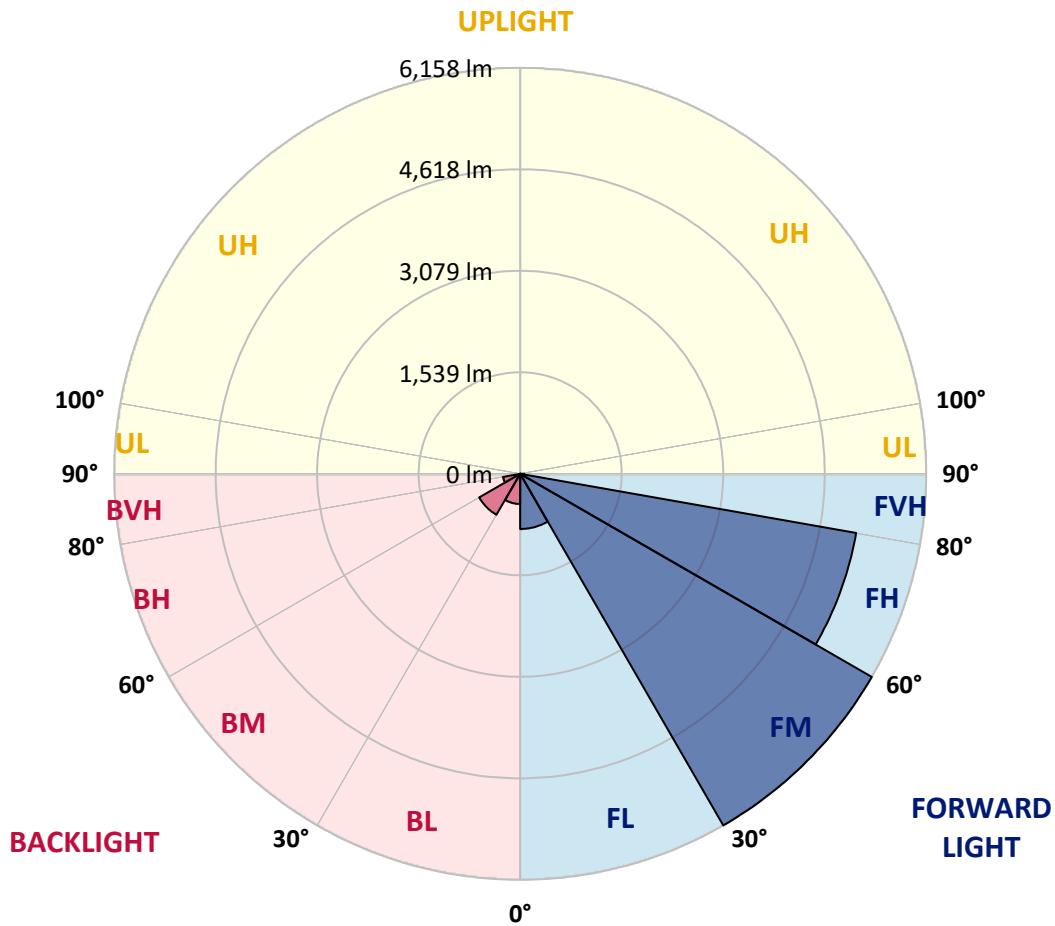
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.9	6.1			
FM (30°-60°)	6157.6	45.0			
FH (60°-80°)	5174.3	37.9			G3/7500
FVH (80°-90°)	60.2	0.4			G1/100
BL (0°-30°)	457.8	3.3	B1/500		
BM (30°-60°)	717.3	5.2	B1/1000		
BH (60°-80°)	264.2	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°	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3
2.5°	2001.9	2020.0	2017.5	2029.5	2033.9	2051.1	2068.4	2091.7	2117.6	2116.7
5°	1888.8	1907.0	1911.3	1927.7	1948.4	1975.2	2010.6	2057.2	2105.5	2113.3
7.5°	1755.0	1774.0	1785.2	1818.0	1856.0	1911.3	1969.1	2037.3	2117.6	2128.8
10°	1621.2	1638.5	1653.2	1699.8	1760.2	1842.2	1936.3	2034.7	2142.6	2159.0
12.5°	1538.3	1554.7	1571.1	1611.7	1686.8	1787.0	1914.7	2046.8	2184.1	2207.4
15°	1509.0	1523.7	1536.6	1572.9	1642.8	1756.8	1910.4	2071.8	2236.7	2267.8
17.5°	1513.3	1521.1	1529.7	1557.3	1625.5	1742.9	1918.2	2115.0	2298.9	2326.5
20°	1538.3	1542.7	1543.5	1562.5	1622.9	1741.2	1933.7	2156.4	2357.6	2394.7
22.5°	1570.3	1572.0	1570.3	1583.2	1639.3	1754.2	1954.4	2206.5	2423.2	2457.7
25°	1719.6	1686.8	1645.4	1620.4	1667.0	1779.2	1985.5	2273.8	2494.8	2528.5
27.5°	2183.2	2089.1	1940.6	1774.0	1723.9	1815.5	2028.7	2342.0	2567.4	2597.6
30°	2936.0	2812.5	2560.5	2184.9	1907.0	1891.4	2084.8	2410.2	2644.2	2677.0
32.5°	3690.5	3660.3	3369.3	2849.6	2318.7	2060.6	2178.0	2502.6	2746.1	2772.0
35°	4453.6	4392.3	4154.0	3640.4	2953.2	2405.1	2333.4	2623.5	2879.9	2909.2
37.5°	5038.0	5000.9	4853.3	4430.3	3706.0	2936.8	2599.3	2810.8	3074.1	3106.9
40°	5554.3	5537.0	5486.9	5208.1	4547.7	3632.6	3012.8	3100.9	3343.4	3382.3
42.5°	5960.0	6000.6	6029.1	5951.4	5415.3	4426.8	3568.8	3508.3	3719.0	3758.7
45°	6375.2	6389.0	6503.9	6616.1	6276.8	5257.3	4195.5	3985.7	4186.0	4235.2
47.5°	6642.0	6697.2	6899.2	7096.9	7001.1	6080.9	4868.8	4549.4	4727.3	4819.6
50°	6661.8	6766.3	7044.3	7388.7	7528.6	6864.7	5600.9	5191.7	5380.8	5482.6
52.5°	6331.2	6493.5	6924.3	7428.4	7813.4	7528.6	6358.0	5834.0	6076.5	6209.5
55°	4854.2	5066.5	6472.8	7212.6	7824.7	8031.8	7095.2	6503.0	6851.8	7002.0
57.5°	4229.2	4336.2	5089.0	6837.9	7616.6	8234.7	7761.6	7140.1	7695.2	7881.6
60°	3518.7	3659.4	4268.0	6225.0	7334.3	8254.6	8350.4	7961.9	8609.4	8819.2
62.5°	2391.3	2544.1	3149.2	5171.8	6948.4	8245.1	8833.0	8807.9	9625.4	9850.8
65°	1481.4	1577.2	1976.0	4223.1	6408.9	8255.4	9338.0	9835.2	10697.6	10926.4
67.5°	1170.6	1214.6	1422.7	3242.4	5479.2	8022.4	9842.1	10801.2	11706.8	11888.1
70°	786.4	813.2	1035.1	2173.7	4076.4	6946.7	9832.6	11286.4	12226.5	12317.1
72.5°	414.4	435.1	605.2	1006.6	2462.0	4937.9	8288.2	10706.3	11709.4	11573.0
75°	207.2	241.7	407.5	511.1	1051.5	2753.8	5146.8	8441.0	9216.3	8687.9
77.5°	157.1	189.9	336.7	336.7	366.0	927.2	2179.8	4603.8	4246.4	3535.9
80°	100.1	129.5	294.4	254.7	152.8	235.7	568.0	1289.7	902.1	686.3
82.5°	58.7	84.6	245.2	168.3	85.5	87.2	160.6	274.5	233.9	182.1
85°	23.3	55.2	168.3	66.5	33.7	21.6	48.3	58.7	48.3	36.3
87.5°	0.0	12.9	29.4	0.0	2.6	1.7	3.5	4.3	4.3	3.5
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°
2132.3	0°	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3	2132.3
2134.0	2.5°	2141.8	2143.5	2148.7	2149.5	2137.5	2121.9	2115.9	2113.3	2102.9	2102.1
2147.8	5°	2167.7	2175.4	2167.7	2145.2	2091.7	2016.6	1959.6	1913.0	1870.7	1857.8
2195.3	7.5°	2219.5	2227.2	2203.9	2115.9	1981.2	1831.9	1697.2	1602.2	1516.8	1484.8
2253.1	10°	2293.7	2304.1	2230.7	2052.9	1814.6	1574.6	1346.7	1186.1	1061.0	1010.0
2331.7	12.5°	2386.9	2391.3	2245.4	1957.0	1597.9	1255.2	932.3	760.5	649.2	607.7
2426.6	15°	2489.7	2483.6	2247.1	1826.7	1302.7	887.4	608.6	499.8	454.9	441.1
2521.6	17.5°	2597.6	2572.5	2212.6	1638.5	978.9	606.9	451.5	425.6	417.8	414.4
2615.7	20°	2703.8	2647.6	2149.5	1392.5	702.7	453.2	410.1	402.3	398.0	396.2
2710.7	22.5°	2800.4	2704.6	2041.6	1106.7	510.2	400.6	387.6	380.7	372.9	369.5
2803.0	25°	2894.5	2737.4	1889.7	840.0	408.3	374.7	364.3	351.4	341.0	336.7
2902.3	27.5°	2986.0	2758.1	1699.8	621.6	364.3	350.5	331.5	313.4	305.6	303.9
3008.5	30°	3083.6	2765.0	1484.0	463.6	337.5	320.3	292.6	271.9	267.6	268.5
3151.8	32.5°	3202.7	2775.4	1266.4	379.8	315.1	284.0	251.2	229.6	226.2	229.6
3360.7	35°	3345.2	2796.1	1056.6	349.6	295.2	246.9	211.5	193.4	189.9	192.5
3628.3	37.5°	3538.5	2829.8	860.7	343.6	278.8	215.8	177.8	163.2	163.2	164.0
3956.4	40°	3795.8	2919.6	685.4	339.3	270.2	192.5	150.2	144.2	146.8	148.5
4374.2	42.5°	4109.2	3110.4	567.2	334.1	260.7	182.1	136.4	133.8	138.1	139.8
4874.9	45°	4460.5	3352.1	525.7	325.5	252.1	189.1	130.4	126.9	132.1	132.9
5436.0	47.5°	4823.9	3588.6	520.6	316.0	243.4	199.4	128.6	120.9	126.9	127.8
6035.1	50°	5191.7	3743.1	525.7	301.3	229.6	199.4	129.5	114.8	120.0	122.6
6656.7	52.5°	5562.0	3813.9	522.3	269.3	205.5	187.3	129.5	109.6	114.8	116.5
7328.3	55°	5921.2	3800.1	469.6	221.9	174.4	165.7	126.0	105.3	108.8	109.6
7962.8	57.5°	6205.2	3607.6	372.1	172.7	141.6	138.1	114.8	100.1	102.7	101.9
8544.6	60°	6353.7	3184.6	265.9	132.9	111.4	108.8	101.0	93.2	95.0	90.6
9037.6	62.5°	6355.4	2625.2	177.8	105.3	88.9	86.3	86.3	83.7	82.0	73.4
9419.1	65°	6219.8	2004.5	118.3	83.7	71.7	67.3	72.5	71.7	65.6	53.5
9535.7	67.5°	5912.5	1313.9	89.8	65.6	55.2	52.7	57.8	60.4	56.1	44.9
9110.9	70°	5280.6	764.9	74.2	50.9	41.4	38.8	46.6	51.8	46.6	36.3
7787.5	72.5°	4386.3	412.6	60.4	38.0	28.5	25.9	37.1	42.3	37.1	26.8
4996.6	75°	2846.2	221.0	46.6	25.0	14.7	16.4	27.6	31.1	25.9	17.3
1466.7	77.5°	955.6	97.5	29.4	12.1	6.9	6.9	16.4	19.0	12.1	6.0
266.7	80°	213.2	40.6	12.1	5.2	2.6	2.6	3.5	3.5	1.7	0.0
82.0	82.5°	69.9	16.4	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
20.7	85°	26.8	6.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	10.4	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°
2132.3
2103.8
1850.0
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988.4
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394.5
368.6
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268.5
228.8
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