

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: P939371

Luminaire Tested: **GALN-SB1D-940-U-SL4-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-940-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

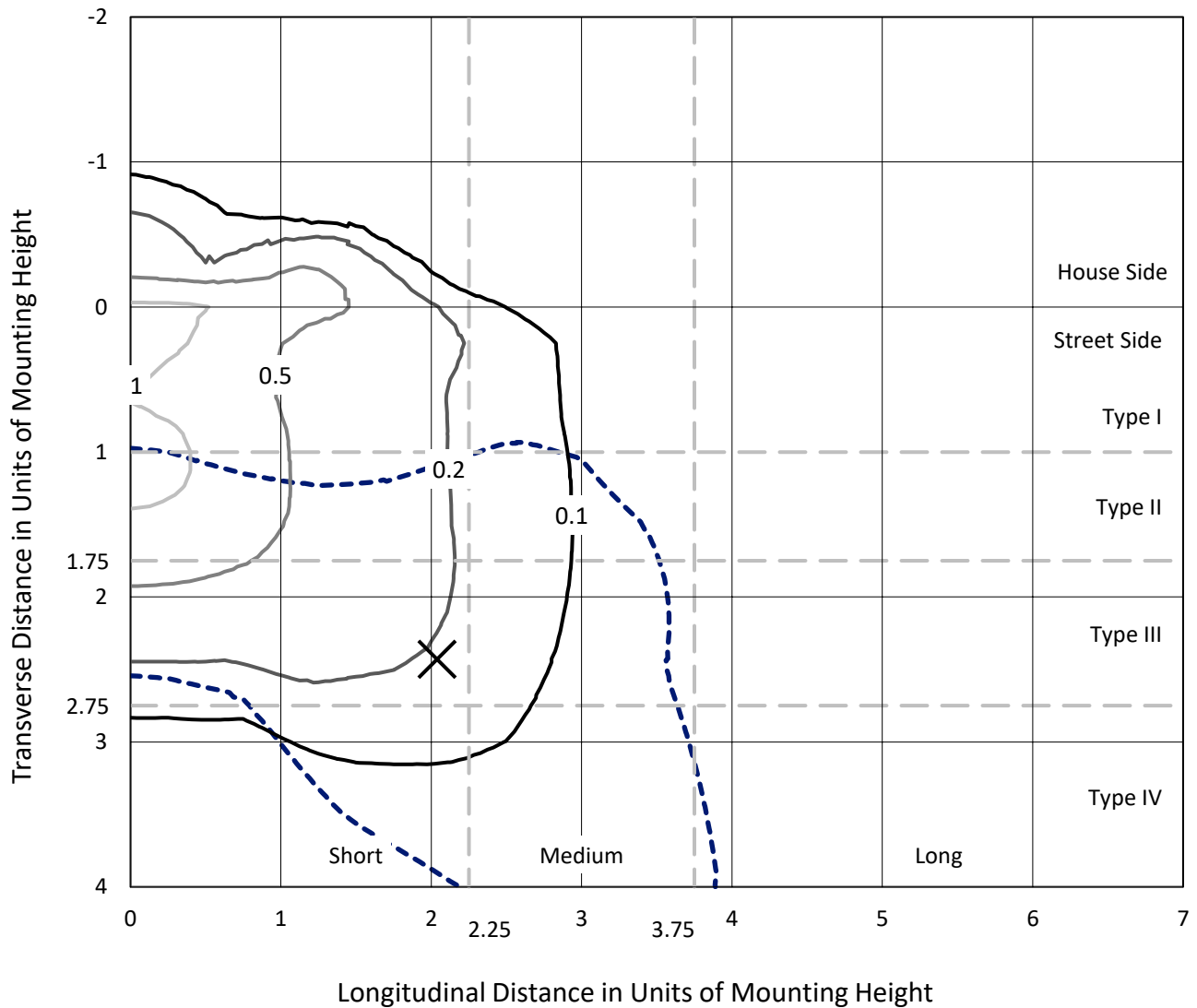
Lumens per Lamp: N/A  
Luminaire Lumens: 5149 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

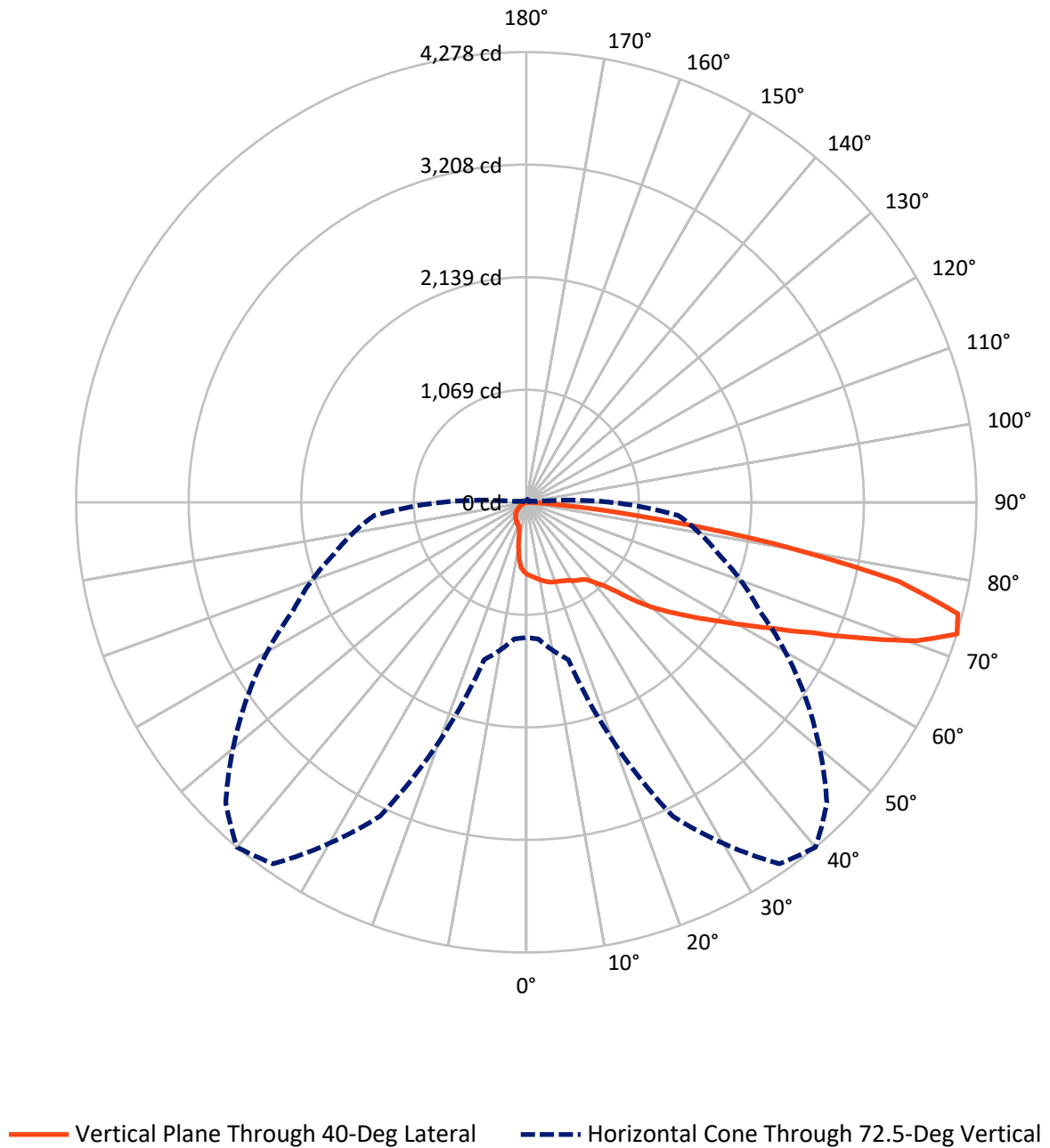
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	664.9	0.0	664.9
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	4484.1	0.0	4484.1
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	5149.0	0.0	5149.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	1.2
10°-20°	169.1	3.3
20°-30°	273.6	5.3
30°-40°	403.9	7.8
40°-50°	679.8	13.2
50°-60°	1055.6	20.5
60°-70°	1320.8	25.7
70°-80°	1081.4	21.0
80°-90°	102.5	2.0
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°	5149.0	100.0
0°-180°	5149.0	100.0

**Coefficient of Utilization**



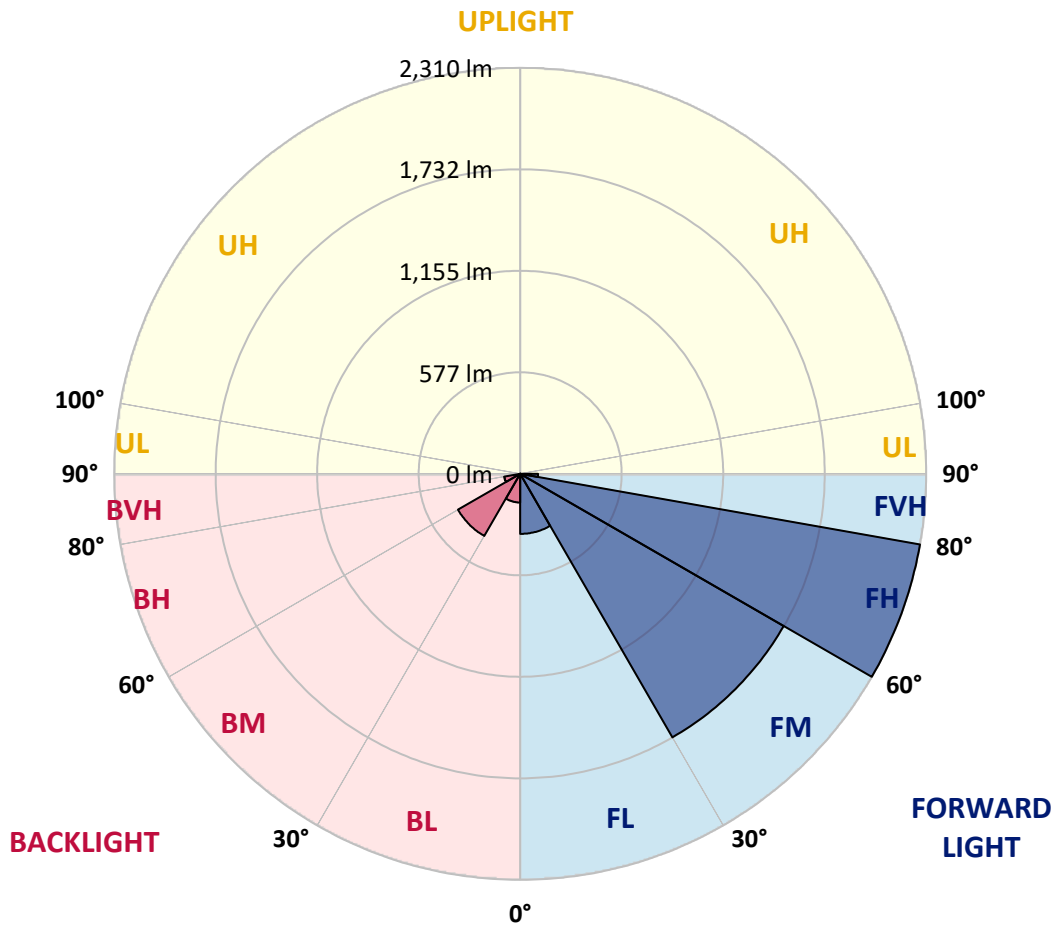
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.7	6.6			
FM (30°-60°)	1731.0	33.6			
FH (60°-80°)	2309.6	44.9			G2/5000
FVH (80°-90°)	101.8	2.0			G2/225
BL (0°-30°)	163.2	3.2	B1/500		
BM (30°-60°)	408.3	7.9	B1/1000		
BH (60°-80°)	92.6	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	702.3	705.0	703.5	700.4	699.6	698.1	696.1	695.3	692.6	690.3
5°	722.1	724.8	722.9	718.6	716.7	714.7	712.0	709.7	704.3	699.2
7.5°	743.8	746.1	743.8	737.6	734.5	732.2	728.3	724.8	718.6	711.2
10°	767.9	769.8	766.3	758.2	753.1	749.6	746.1	742.3	736.5	728.3
12.5°	790.4	792.7	787.3	777.6	771.7	768.3	764.4	761.3	755.5	747.7
15°	810.9	814.4	805.1	794.6	788.0	785.3	781.4	779.5	775.6	770.2
17.5°	826.4	828.7	819.1	806.6	799.3	797.3	794.6	795.8	795.0	792.3
20°	839.6	841.2	828.4	813.2	805.1	805.5	804.7	808.6	810.1	810.1
22.5°	855.9	856.3	840.0	821.0	811.3	814.0	815.2	819.4	822.5	825.6
25°	877.2	876.4	857.1	831.1	822.5	826.4	829.1	830.7	834.2	839.2
27.5°	909.0	906.7	881.9	847.4	837.3	840.8	845.8	845.0	843.5	847.4
30°	949.4	946.3	913.3	870.2	860.9	864.0	865.6	858.6	847.4	850.9
32.5°	1013.3	1007.9	962.2	895.8	881.5	885.0	883.0	868.7	852.0	855.5
35°	1124.6	1111.5	1046.7	949.4	904.8	900.9	896.2	882.3	861.7	858.2
37.5°	1361.2	1337.9	1227.4	1053.7	957.5	932.3	917.9	904.0	872.2	858.2
40°	1628.0	1604.4	1476.8	1228.2	1045.1	1002.5	968.4	929.6	883.0	863.3
42.5°	1906.5	1880.5	1749.4	1444.6	1170.4	1082.8	1019.2	950.1	900.9	878.8
45°	2217.5	2184.9	2013.5	1670.3	1352.3	1216.2	1101.0	992.4	931.9	906.3
47.5°	2545.6	2503.3	2276.8	1889.4	1548.1	1400.8	1250.7	1068.0	977.7	947.4
50°	2836.4	2794.6	2548.7	2118.6	1731.2	1576.4	1421.3	1172.7	1046.3	1005.6
52.5°	3045.5	3013.7	2796.1	2355.2	1921.6	1741.3	1576.1	1294.5	1133.2	1080.0
55°	3185.5	3156.4	2971.4	2579.3	2143.0	1922.8	1728.5	1426.8	1237.9	1169.2
57.5°	3270.4	3253.7	3098.2	2779.4	2362.5	2121.3	1903.0	1572.2	1361.2	1274.3
60°	3300.6	3287.1	3176.9	2970.2	2627.8	2359.8	2108.1	1736.2	1510.9	1393.8
62.5°	3220.0	3222.7	3233.6	3196.3	2907.4	2639.0	2354.0	1933.2	1676.9	1529.1
65°	2840.3	2862.8	3069.1	3446.9	3277.8	2988.8	2667.0	2173.7	1866.9	1683.1
67.5°	2351.7	2384.3	2641.0	3593.4	3672.6	3443.0	3102.9	2480.0	2093.4	1839.8
70°	1800.2	1835.1	2146.1	3562.8	4042.1	3939.4	3641.9	2869.8	2328.0	1948.4
72.5°	1284.8	1302.7	1547.7	3290.2	4193.8	4277.5	4039.0	3239.0	2447.9	1888.2
75°	902.8	899.7	1062.2	2649.5	3957.6	4236.4	3899.8	3039.3	2215.2	1500.0
77.5°	393.2	394.0	530.5	1609.0	3158.7	3618.3	3241.7	1903.8	1544.3	795.0
80°	102.0	105.1	194.7	640.7	1901.8	2388.1	1977.1	836.9	713.6	193.9
82.5°	36.1	38.4	89.6	201.3	701.5	1095.2	880.3	267.6	186.1	55.5
85°	10.5	12.4	48.1	61.7	145.0	309.5	213.7	52.0	45.8	28.7
87.5°	0.0	1.6	9.7	8.5	8.5	5.8	10.9	5.8	7.4	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°
681.8	0°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
687.6	2.5°	685.3	682.5	676.7	670.5	664.7	659.3	657.7	651.9	649.2	649.6
693.0	5°	688.7	683.7	672.5	658.9	644.9	629.0	615.8	597.2	581.3	579.4
703.5	7.5°	698.1	689.9	671.7	645.3	610.4	566.6	525.9	485.5	462.7	450.2
719.0	10°	712.4	701.5	673.6	623.2	549.1	470.8	409.1	358.3	332.4	320.3
738.0	12.5°	729.5	717.4	676.7	585.6	470.0	367.3	300.6	269.5	264.1	263.3
761.3	15°	753.5	740.3	680.2	534.8	384.3	279.6	249.0	249.4	253.6	256.0
786.5	17.5°	780.3	767.1	675.2	472.7	299.8	238.9	238.1	241.6	247.8	250.1
809.7	20°	807.4	795.0	657.3	399.8	242.4	227.6	230.7	234.6	240.8	243.9
832.6	22.5°	835.3	824.5	629.0	322.3	218.7	219.5	223.4	227.3	234.2	237.7
855.1	25°	865.2	855.9	591.4	258.3	208.6	211.0	216.0	220.7	228.0	232.3
874.1	27.5°	895.5	888.5	548.8	215.6	199.3	202.0	207.9	214.1	221.4	226.5
890.8	30°	928.4	924.5	514.6	199.7	190.4	192.7	199.3	206.3	214.5	220.7
907.5	32.5°	962.2	961.4	497.9	211.4	182.3	183.8	189.6	196.6	206.7	214.5
921.4	35°	995.5	997.1	488.3	244.3	179.6	175.3	179.2	185.4	197.4	207.1
937.3	37.5°	1038.2	1042.0	487.9	280.0	186.1	166.8	169.5	173.7	184.2	195.5
962.2	40°	1101.8	1122.3	512.7	310.6	197.8	159.0	159.8	160.6	166.0	175.3
995.1	42.5°	1186.3	1246.4	602.3	331.6	202.4	152.0	149.3	145.0	144.3	149.3
1040.1	45°	1291.4	1396.5	759.7	343.2	197.8	144.3	136.9	125.7	121.4	124.9
1101.0	47.5°	1415.1	1560.9	946.3	345.9	190.0	134.6	121.4	106.6	103.2	104.3
1182.8	50°	1535.7	1684.3	1110.3	323.4	177.2	122.2	104.3	91.9	89.6	90.0
1279.4	52.5°	1642.4	1726.5	1156.8	270.3	160.2	107.0	89.6	81.1	79.5	79.5
1386.0	55°	1713.0	1680.8	1031.6	206.7	138.8	91.5	76.8	72.5	71.7	71.4
1505.1	57.5°	1727.7	1531.8	779.1	149.3	108.6	77.2	68.3	65.9	64.4	62.8
1627.2	60°	1674.9	1283.6	496.0	104.3	81.4	65.9	60.5	58.9	55.8	52.7
1742.0	62.5°	1560.9	969.5	274.6	72.5	65.5	56.2	53.5	51.6	45.8	40.7
1833.2	65°	1407.7	644.5	121.4	56.6	53.5	47.3	45.8	43.0	36.1	30.2
1867.7	67.5°	1253.8	371.1	54.7	45.4	43.0	38.8	37.6	35.7	30.6	25.2
1779.7	70°	1078.1	188.1	37.6	36.1	33.4	29.5	30.6	30.2	25.2	20.6
1451.6	72.5°	802.8	93.5	28.3	27.1	24.0	20.9	25.2	24.8	19.8	15.5
895.1	75°	454.5	46.1	20.6	19.0	14.3	15.5	20.2	19.0	13.6	10.1
377.7	77.5°	180.3	23.7	13.6	11.6	8.5	10.5	14.7	12.8	7.0	4.3
72.1	80°	41.5	11.6	7.0	5.0	3.9	6.2	7.8	4.7	1.9	0.4
19.4	82.5°	11.6	5.0	2.3	1.9	1.9	2.3	1.9	0.8	0.0	0.0
5.0	85°	3.9	2.3	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0
1.6	87.5°	1.6	0.8	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

<u>180°</u>
681.8
649.2
578.2
449.5
318.0
262.9
255.6
249.7
243.9
237.7
232.3
226.9
221.4
215.2
208.6
197.4
178.4
152.0
124.9
103.9
90.0
79.1
70.6
62.0
51.6
39.2
29.1
24.4
19.8
14.7
9.3
3.9
0.0
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