

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: P945626

Luminaire Tested: **GALN-SB1C-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

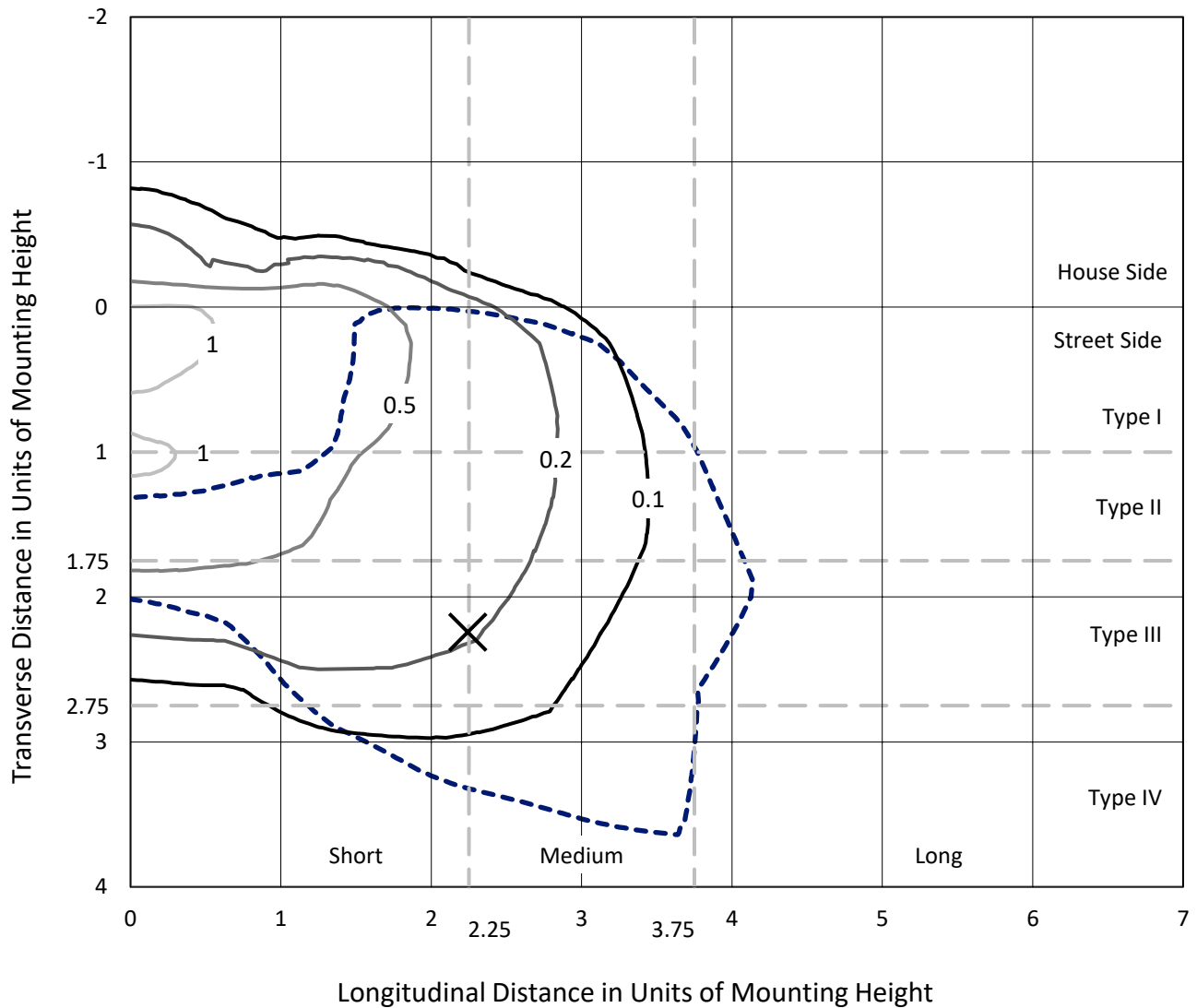
Lumens per Lamp: N/A  
Luminaire Lumens: 5771 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

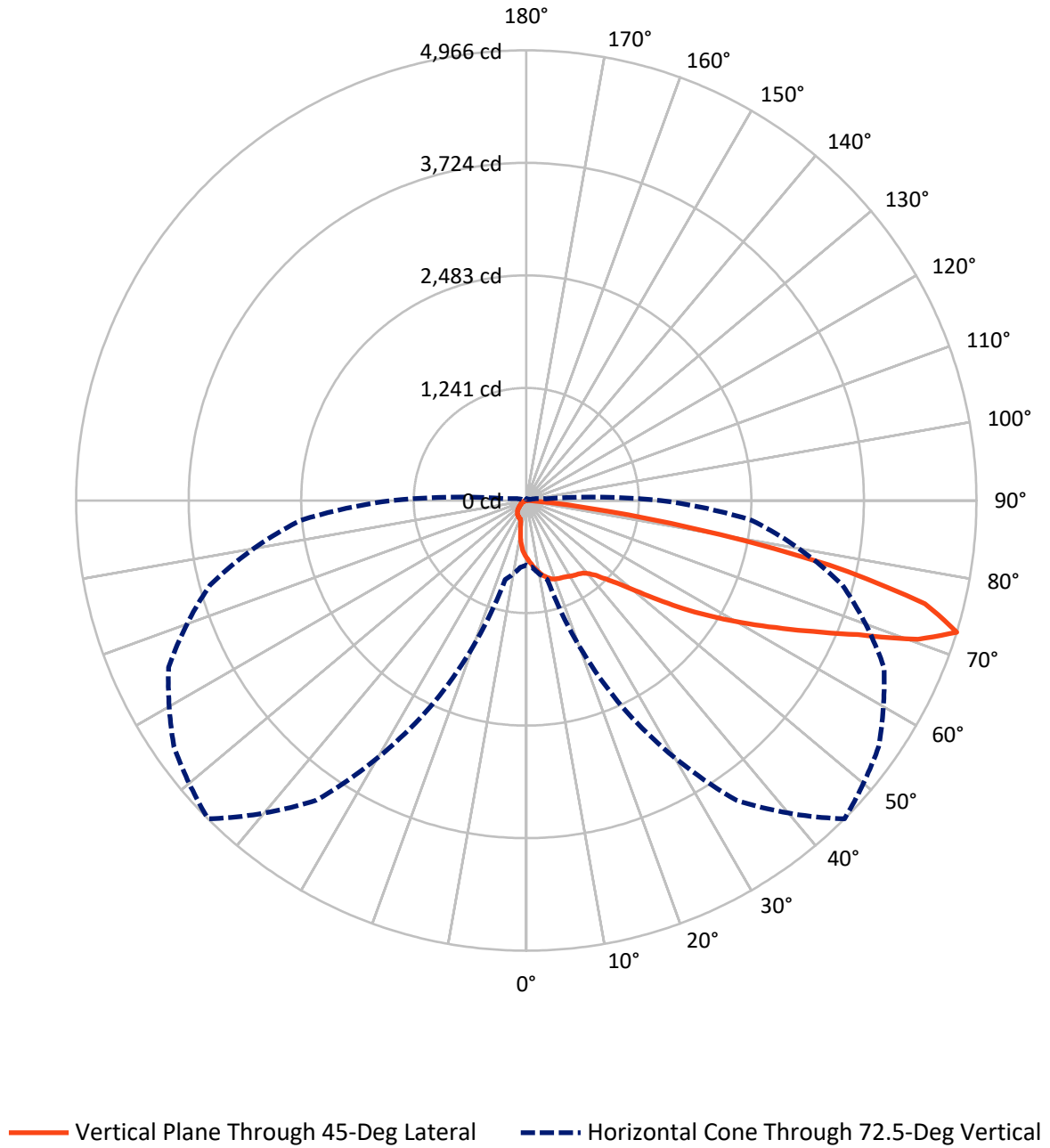
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	606.4	0.0	606.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5164.6	0.0	5164.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	5771.0	0.0	5771.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	1.0
10°-20°	174.1	3.0
20°-30°	285.9	5.0
30°-40°	405.5	7.0
40°-50°	670.2	11.6
50°-60°	1203.9	20.9
60°-70°	1671.7	29.0
70°-80°	1212.6	21.0
80°-90°	87.7	1.5
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°	5771.0	100.0
0°-180°	5771.0	100.0

**Coefficient of Utilization**



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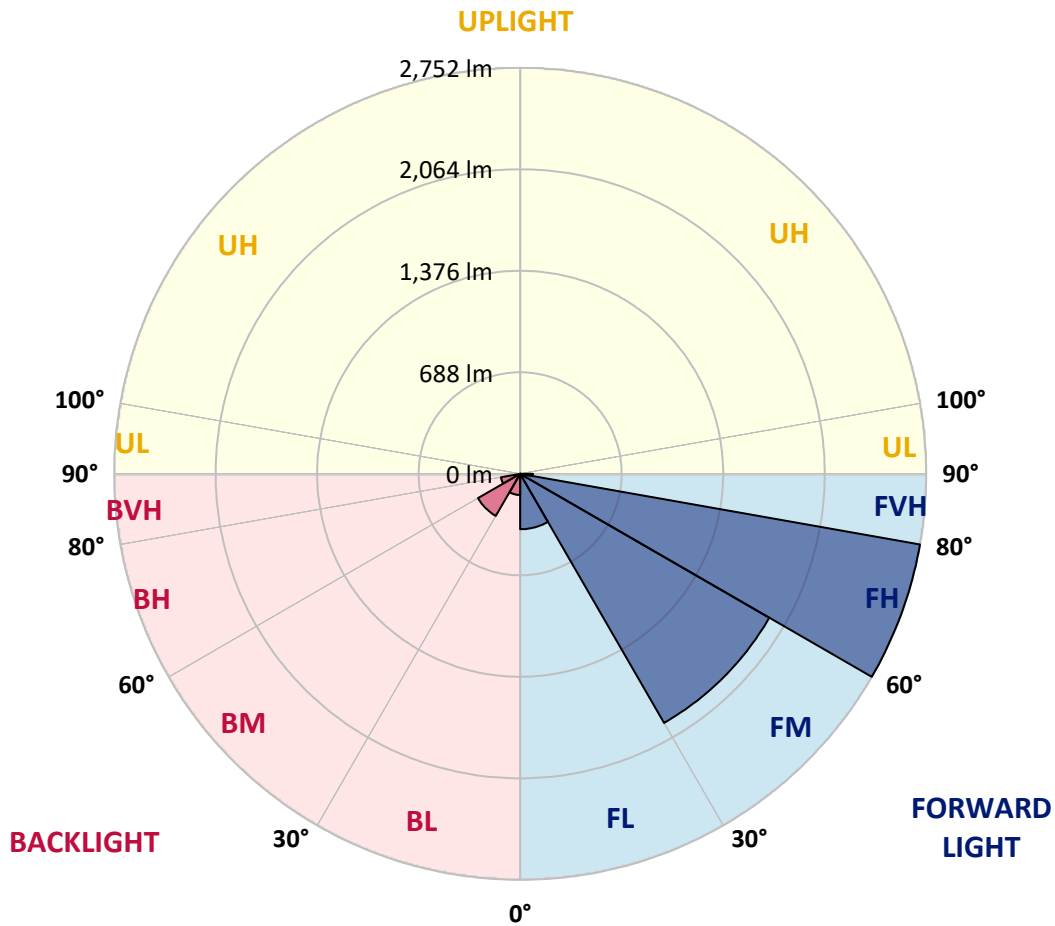
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.9	6.5			
FM (30°-60°)	1949.7	33.8			
FH (60°-80°)	2752.0	47.7			G2/5000
FVH (80°-90°)	86.9	1.5			G1/100
BL (0°-30°)	143.6	2.5	B1/500		
BM (30°-60°)	329.8	5.7	B1/1000		
BH (60°-80°)	132.2	2.3	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
2.5°	690.5	691.7	690.9	686.2	678.3	674.0	671.6	663.7	658.6	649.6
5°	753.9	758.7	755.9	746.5	731.5	720.9	717.7	701.6	687.0	670.0
7.5°	821.3	823.7	818.5	806.3	786.2	768.1	765.4	742.9	719.7	693.7
10°	879.6	882.4	874.5	856.8	833.9	811.5	807.5	782.7	755.1	723.2
12.5°	928.4	931.2	921.0	899.7	874.5	851.2	847.3	821.3	791.0	755.5
15°	965.5	970.6	956.8	934.0	906.8	883.5	881.6	856.0	826.4	787.0
17.5°	987.1	992.3	979.3	951.7	928.4	908.8	906.4	885.1	857.5	819.7
20°	990.7	995.4	981.6	957.6	938.3	922.5	921.4	906.0	885.9	849.7
22.5°	980.0	986.0	973.4	954.0	940.7	932.4	930.8	922.1	910.7	880.0
25°	969.0	973.7	964.3	947.4	940.3	939.5	940.7	939.1	936.7	910.7
27.5°	968.2	973.4	962.7	946.6	942.6	950.9	952.1	959.6	961.5	938.7
30°	974.9	978.5	968.2	951.3	949.3	968.2	968.6	982.0	985.2	962.3
32.5°	989.5	993.4	983.2	958.4	955.6	982.0	983.2	1000.9	1006.0	987.5
35°	1023.8	1028.5	1016.7	978.1	968.2	995.0	998.6	1019.4	1029.7	1014.3
37.5°	1109.3	1095.5	1079.3	1017.9	997.0	1015.5	1021.4	1045.8	1064.0	1046.2
40°	1321.6	1278.2	1227.8	1085.6	1047.4	1059.2	1064.0	1088.4	1113.2	1095.9
42.5°	1640.2	1589.0	1507.9	1241.6	1123.4	1129.3	1132.9	1154.2	1189.2	1175.4
45°	1924.2	1905.7	1823.0	1507.9	1265.6	1236.5	1240.8	1251.8	1303.4	1298.3
47.5°	2142.5	2131.8	2068.0	1813.6	1505.9	1367.7	1379.9	1385.0	1459.4	1477.6
50°	2310.3	2306.3	2249.2	2085.4	1819.9	1561.1	1565.4	1554.4	1665.8	1710.8
52.5°	2468.6	2482.0	2439.9	2337.9	2155.1	1814.3	1813.6	1761.6	1912.0	1979.8
55°	2611.6	2616.3	2620.7	2595.5	2492.3	2102.7	2095.2	2010.1	2197.6	2267.7
57.5°	2745.9	2747.9	2786.5	2838.1	2843.2	2412.3	2398.5	2296.5	2509.6	2559.6
60°	2836.2	2845.2	2926.8	3070.1	3132.8	2731.8	2724.3	2620.3	2827.1	2850.3
62.5°	2706.2	2761.3	2966.9	3251.3	3406.1	3085.9	3082.3	2984.7	3161.1	3142.2
65°	2190.5	2283.9	2645.5	3373.8	3674.4	3481.4	3486.5	3382.5	3504.2	3442.8
67.5°	1532.3	1630.8	2058.6	3383.7	3974.2	3945.8	3975.3	3812.3	3868.6	3730.7
70°	1059.6	1110.4	1388.9	3171.8	4207.7	4585.5	4584.7	4340.1	4231.0	3861.9
72.5°	712.6	739.0	902.1	2516.3	4036.0	4965.6	4942.8	4743.5	4353.1	3611.8
75°	300.6	319.9	417.5	1414.1	3193.0	4543.0	4481.1	4192.0	3867.8	2844.0
77.5°	95.3	103.6	164.7	506.2	1758.8	3414.8	3349.4	2617.9	2592.3	1426.7
80°	45.3	52.8	92.6	203.3	692.1	1857.3	1848.2	1187.6	1115.2	385.2
82.5°	19.7	23.2	51.2	108.7	309.6	662.6	675.9	404.2	334.4	146.1
85°	6.3	8.3	23.6	50.0	130.8	164.7	162.7	96.1	134.7	79.6
87.5°	0.0	0.0	7.9	11.4	13.4	9.5	10.6	8.3	37.4	22.1
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°
632.2	0°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
640.1	2.5°	635.4	629.1	618.0	607.8	598.7	589.7	584.2	576.3	575.5	575.5
650.3	5°	639.7	629.5	609.8	588.9	564.9	542.0	519.2	497.1	490.0	484.9
666.9	7.5°	652.3	636.2	605.0	565.3	519.6	469.5	434.5	396.7	382.1	374.2
688.9	10°	670.4	648.4	601.1	531.4	457.3	389.2	339.2	298.2	282.4	275.7
713.0	12.5°	690.5	663.3	594.0	489.2	389.2	307.6	258.8	239.9	237.5	237.5
741.7	15°	714.6	681.5	581.8	439.6	317.9	243.4	226.1	226.9	229.3	230.8
769.7	17.5°	739.4	700.8	562.5	384.1	254.9	219.0	219.4	220.6	222.6	224.1
800.0	20°	766.2	720.1	536.9	325.0	218.6	211.9	213.1	214.3	215.9	216.7
828.4	22.5°	794.9	738.2	506.6	267.1	206.4	206.0	206.4	207.6	209.6	209.6
861.5	25°	825.6	758.3	471.9	224.9	200.1	200.1	200.9	201.7	203.3	203.3
893.4	27.5°	857.1	776.8	435.3	202.9	194.6	194.2	194.2	195.4	196.2	196.6
924.9	30°	891.8	798.5	398.6	198.1	190.3	188.3	187.1	187.9	188.7	189.1
958.0	32.5°	927.3	819.3	365.9	200.1	185.9	182.4	178.4	177.7	177.7	179.2
992.3	35°	966.7	842.2	340.7	206.8	183.6	173.7	167.4	163.9	164.3	166.6
1033.2	37.5°	1013.9	869.8	322.2	212.7	182.0	163.9	153.6	149.3	146.5	149.3
1089.6	40°	1075.8	910.3	308.8	217.4	180.0	152.4	138.7	131.6	126.4	128.0
1177.0	42.5°	1166.8	974.1	303.7	217.8	175.7	139.1	123.3	113.8	106.4	106.7
1308.6	45°	1294.4	1075.0	330.1	212.7	166.2	124.5	107.1	94.5	89.8	88.6
1505.1	47.5°	1469.3	1221.9	391.2	202.1	152.4	110.3	91.4	80.8	77.2	75.2
1763.1	50°	1703.7	1410.6	458.9	190.3	138.7	96.9	78.4	71.7	69.3	67.4
2069.2	52.5°	1975.5	1602.0	514.4	178.4	124.9	85.1	70.1	66.2	64.2	62.6
2364.6	55°	2224.8	1734.0	511.3	165.8	111.5	75.6	64.2	61.8	59.5	57.9
2619.1	57.5°	2380.0	1752.5	421.5	152.0	96.1	68.1	58.7	57.1	54.4	52.4
2839.3	60°	2451.3	1646.9	295.4	133.9	80.8	61.1	52.8	52.0	48.5	45.7
3047.7	62.5°	2464.3	1450.8	197.0	111.5	67.4	54.4	46.9	45.7	41.0	36.2
3217.1	65°	2411.5	1170.3	136.3	87.1	57.5	47.3	40.2	37.8	32.7	28.0
3257.2	67.5°	2244.5	821.7	94.9	62.6	48.8	37.4	31.9	31.1	27.2	23.2
3052.4	70°	1938.4	468.4	63.4	46.9	38.6	25.6	25.2	26.0	22.1	18.9
2493.8	72.5°	1486.2	214.3	39.4	34.3	26.4	17.3	20.1	20.5	16.9	14.2
1555.9	75°	874.9	91.8	24.8	22.1	13.4	11.4	14.6	15.0	11.4	9.1
568.8	77.5°	297.8	34.7	15.8	13.0	6.7	6.3	9.5	9.5	6.3	3.5
114.2	80°	67.8	13.0	7.9	5.1	3.2	2.8	3.2	2.8	1.6	0.4
35.1	82.5°	19.3	5.1	3.2	2.0	1.2	1.2	0.4	0.0	0.0	0.0
12.2	85°	5.5	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	2.4	0.4	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>
632.2
577.5
487.3
375.4
275.7
237.5
230.8
224.1
217.0
210.3
203.7
197.0
189.9
180.4
167.8
148.5
127.2
105.2
87.1
74.1
67.0
62.2
57.1
52.0
44.9
33.9
26.4
22.1
17.3
12.6
7.9
2.8
0.0
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