

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: P946082

Luminaire Tested: **GALN-SB1D-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1D-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

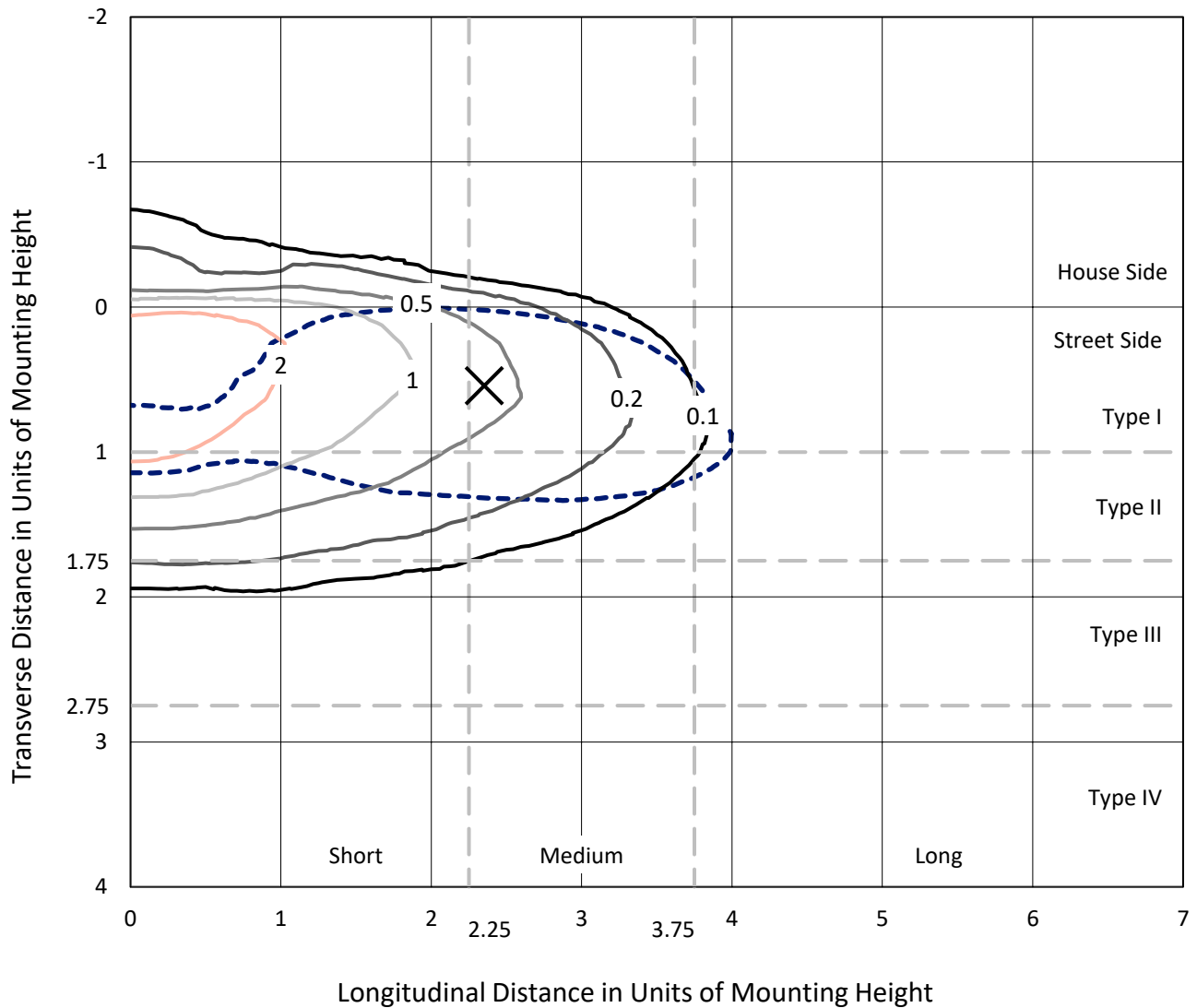
Lumens per Lamp: N/A  
Luminaire Lumens: 7744 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

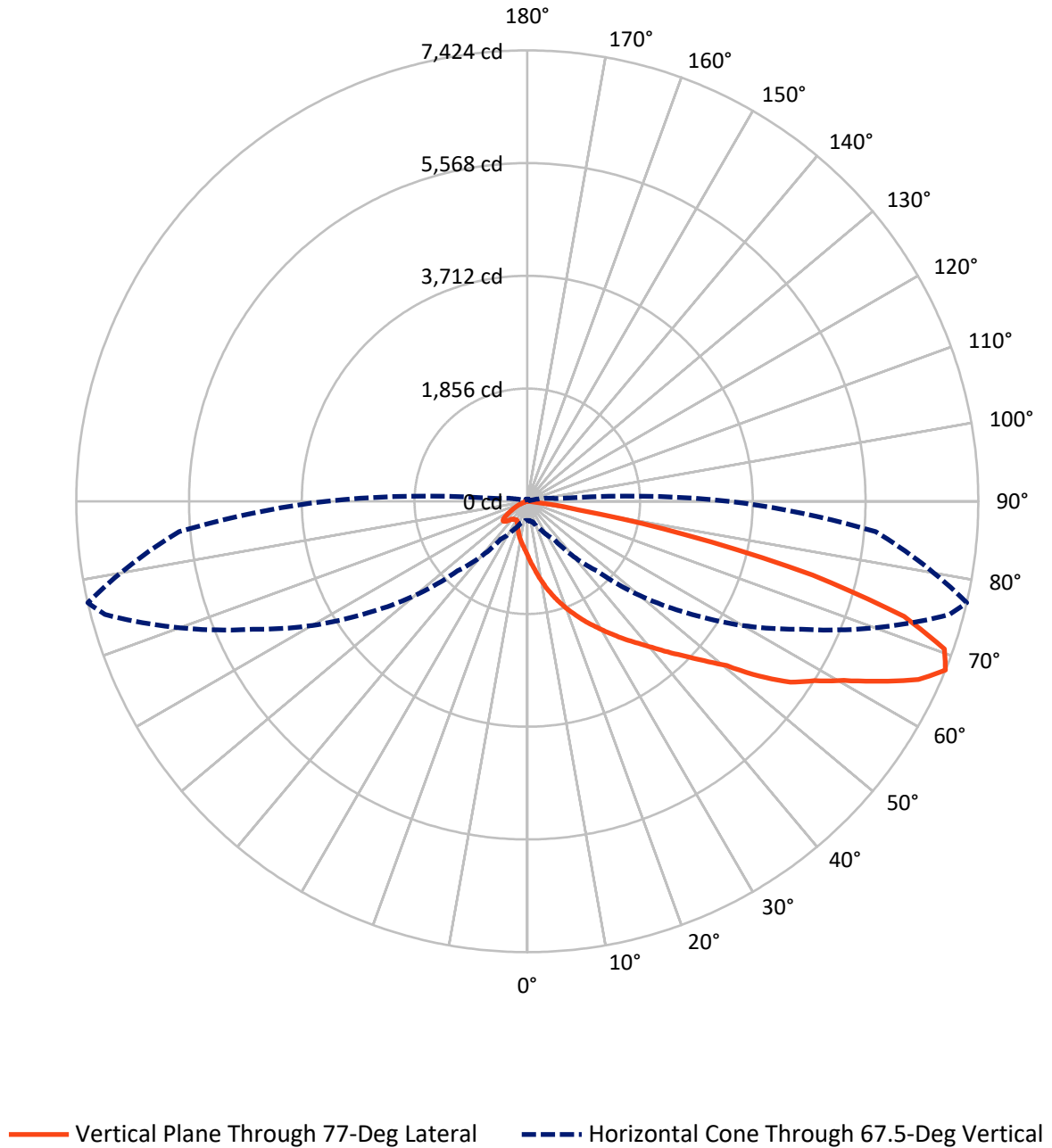
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	569.7	0.0	569.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	7174.3	0.0	7174.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	7744.0	0.0	7744.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.1	1.2
10°-20°	319.2	4.1
20°-30°	615.9	8.0
30°-40°	1069.3	13.8
40°-50°	1552.5	20.0
50°-60°	1782.9	23.0
60°-70°	1547.9	20.0
70°-80°	729.1	9.4
80°-90°	36.1	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°	7744.0	100.0
0°-180°	7744.0	100.0

**Coefficient of Utilization**



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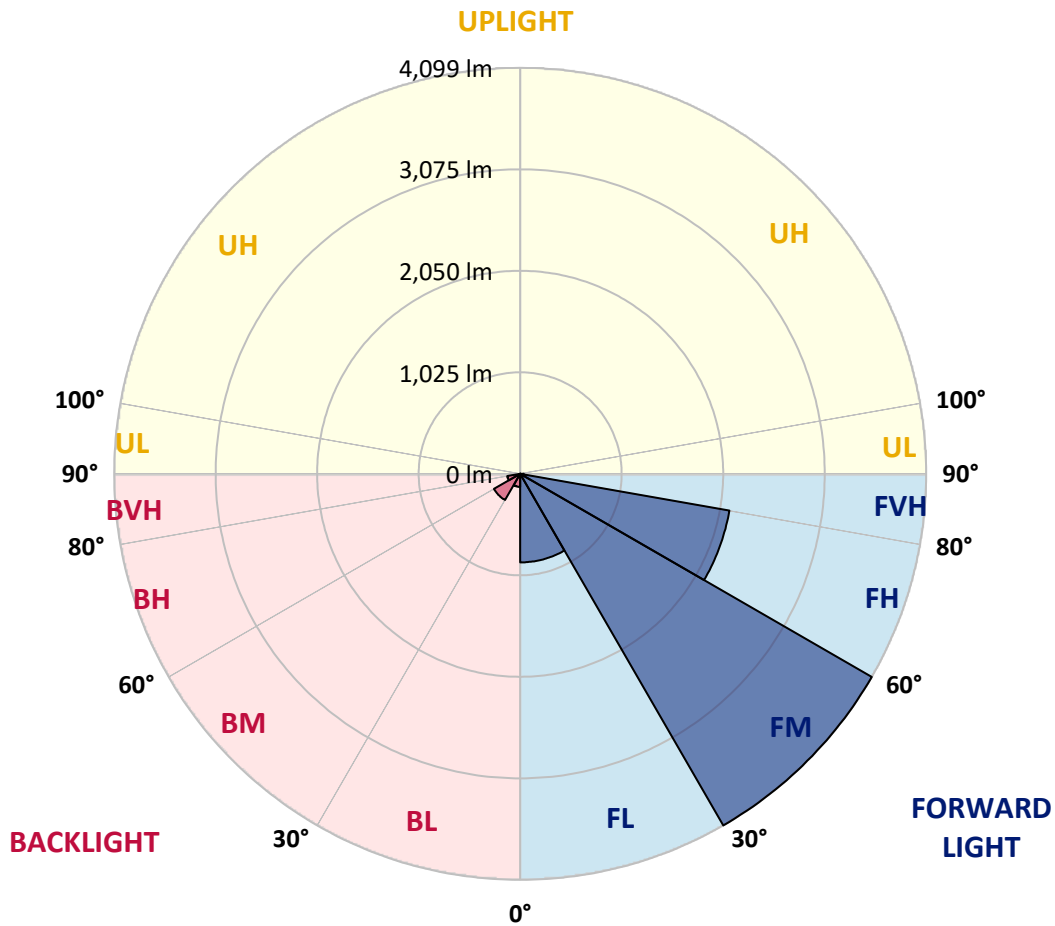
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.3	11.5			
FM (30°-60°)	4099.5	52.9			
FH (60°-80°)	2145.1	27.7			G2/5000
FVH (80°-90°)	35.4	0.5			G1/100
BL (0°-30°)	131.9	1.7	B1/500		
BM (30°-60°)	305.3	3.9	B1/1000		
BH (60°-80°)	131.9	1.7	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0
2.5°	1236.3	1244.0	1233.0	1211.8	1180.1	1159.4	1108.9	1061.3	1008.4	991.6
5°	1507.1	1513.8	1501.3	1478.2	1435.9	1395.5	1329.2	1229.6	1126.2	1093.0
7.5°	1707.6	1711.5	1706.6	1685.5	1645.1	1599.4	1525.4	1407.5	1254.1	1217.6
10°	1851.9	1864.4	1862.9	1854.8	1827.8	1790.8	1711.9	1577.8	1397.4	1350.3
12.5°	1947.6	1961.5	1969.7	1988.0	1986.5	1963.0	1893.7	1751.9	1540.3	1485.0
15°	1975.5	1990.4	2021.6	2063.9	2101.5	2113.5	2064.9	1922.6	1697.5	1626.8
17.5°	1959.6	1982.7	2020.2	2087.0	2169.3	2223.6	2218.3	2087.5	1840.3	1759.5
20°	1994.7	2016.8	2046.2	2102.4	2198.1	2296.7	2336.1	2245.2	1982.2	1897.6
22.5°	2189.0	2185.1	2188.0	2197.1	2254.4	2352.0	2433.3	2388.5	2122.6	2036.1
25°	2496.7	2479.4	2450.1	2400.6	2386.1	2433.3	2517.9	2515.5	2270.7	2177.9
27.5°	2849.7	2846.8	2778.1	2658.8	2591.5	2573.2	2613.6	2639.1	2417.4	2318.3
30°	3187.8	3195.5	3102.6	2969.9	2846.3	2774.7	2738.1	2756.4	2566.5	2469.8
32.5°	3482.1	3490.2	3389.3	3233.9	3081.0	2994.4	2917.5	2872.3	2729.0	2623.7
35°	3730.7	3738.9	3623.0	3451.3	3288.3	3209.9	3122.8	2999.3	2892.5	2794.4
37.5°	3952.8	3950.4	3795.1	3622.0	3461.9	3399.8	3354.1	3155.5	3060.8	2966.1
40°	4084.1	4094.2	3961.5	3770.6	3615.3	3570.1	3567.2	3349.3	3255.1	3163.2
42.5°	4122.6	4140.4	4044.2	3887.4	3746.5	3697.5	3773.0	3559.0	3481.1	3391.7
45°	4053.4	4070.7	4026.9	3918.2	3836.0	3804.3	3950.0	3776.4	3722.5	3634.0
47.5°	3851.4	3873.0	3883.6	3860.5	3859.6	3891.8	4108.7	4005.3	4009.1	3918.7
50°	3460.4	3497.0	3594.1	3675.9	3802.3	3961.0	4263.0	4253.4	4332.3	4254.4
52.5°	2749.7	2801.6	3136.3	3359.9	3644.1	3948.0	4432.8	4651.6	4899.2	4785.3
55°	2209.7	2209.7	2481.8	2900.2	3335.4	3862.4	4506.8	4910.3	5285.4	5258.4
57.5°	1801.4	1823.0	1996.6	2366.4	2888.7	3658.5	4552.5	5072.8	5596.5	5576.8
60°	1111.8	1158.4	1486.4	1851.4	2380.4	3295.5	4523.7	5237.3	5974.0	5989.9
62.5°	626.1	643.4	789.6	1332.0	1850.9	2807.4	4302.9	5329.1	6456.8	6524.1
65°	432.3	441.0	497.2	829.0	1283.0	2235.1	3871.6	5271.9	6940.6	7076.7
67.5°	314.0	318.3	353.4	506.4	761.2	1620.6	3195.5	4983.4	7196.9	7424.3
70°	241.4	244.3	269.8	332.8	449.6	1000.2	2320.7	4409.7	7011.3	7283.0
72.5°	196.2	199.1	218.8	246.2	298.1	591.5	1406.6	3581.1	6191.8	6485.2
75°	165.4	169.3	187.1	204.9	233.7	379.9	659.8	2493.9	4656.4	4848.7
77.5°	91.8	84.6	152.0	169.8	197.2	240.4	308.7	1467.7	2607.8	2661.2
80°	57.2	59.1	120.7	136.6	151.5	121.2	141.4	565.0	904.1	858.9
82.5°	3.4	7.7	92.8	98.6	103.9	51.9	53.4	191.9	217.8	200.0
85°	0.0	0.0	42.3	34.1	36.1	14.9	15.4	44.7	29.3	31.7
87.5°	0.0	0.0	0.0	1.0	0.0	1.4	2.9	3.8	1.4	1.9
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°
893.0	0°	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0	893.0
938.7	2.5°	905.0	871.4	803.1	736.2	681.9	631.4	595.3	561.2	543.9	542.9
999.3	5°	932.4	861.7	725.2	604.5	507.3	429.4	378.9	342.9	324.6	318.3
1073.8	7.5°	970.9	864.6	656.9	489.1	374.6	307.8	278.9	267.4	263.5	259.2
1158.0	10°	1019.5	871.4	595.8	393.8	295.3	261.6	250.1	245.2	242.4	239.5
1252.7	12.5°	1073.8	877.6	535.2	327.0	259.7	242.4	234.2	228.4	224.6	221.2
1349.8	15°	1126.7	881.5	472.2	280.4	241.4	227.5	218.8	212.5	207.3	203.4
1445.0	17.5°	1179.1	886.7	413.1	252.5	226.5	212.5	203.9	196.2	191.9	187.5
1545.1	20°	1237.3	885.8	357.3	232.7	211.6	197.6	188.5	181.3	177.0	172.2
1650.9	22.5°	1291.2	881.0	308.2	215.9	196.2	182.7	172.6	165.4	161.1	157.2
1759.1	25°	1353.2	877.1	267.4	200.5	181.8	168.3	157.2	150.5	145.7	142.3
1867.7	27.5°	1412.8	871.4	237.6	186.6	167.8	154.8	144.3	136.6	132.2	129.8
1979.8	30°	1471.5	869.9	226.5	173.1	155.3	142.3	131.8	124.5	121.2	120.2
2102.9	32.5°	1542.2	873.8	231.3	168.3	143.8	130.8	120.7	115.4	112.0	112.0
2239.9	35°	1617.7	872.8	238.5	172.6	136.1	119.3	111.6	108.2	104.8	104.8
2391.9	37.5°	1712.4	874.2	244.3	179.8	133.2	109.6	105.3	101.0	99.1	99.1
2558.3	40°	1853.8	921.8	241.4	186.1	132.2	102.9	94.3	92.8	91.4	91.4
2746.3	42.5°	2026.9	1025.2	245.2	186.6	131.8	98.1	86.6	89.4	86.1	85.6
2958.4	45°	2216.4	1138.2	269.8	176.5	131.3	95.7	82.7	86.1	80.8	80.8
3204.1	47.5°	2404.4	1250.3	294.8	162.1	129.8	95.2	79.3	77.4	76.0	76.5
3524.4	50°	2663.6	1341.7	304.4	142.3	126.5	94.3	73.1	73.6	72.6	73.6
3975.9	52.5°	2945.9	1360.9	292.9	120.2	116.9	91.4	68.8	70.7	70.2	71.2
4293.8	55°	3121.9	1340.2	241.9	100.0	101.9	79.8	64.4	68.3	68.3	68.3
4604.4	57.5°	3303.7	1252.2	171.7	81.3	84.6	65.4	60.6	65.9	65.4	64.9
4978.6	60°	3434.5	1109.9	113.0	66.8	67.3	53.9	56.3	62.0	61.6	59.1
5364.2	62.5°	3532.1	952.6	72.6	56.7	51.5	48.6	51.5	56.3	54.3	49.0
5691.2	65°	3521.0	734.8	55.8	48.6	42.3	42.3	44.7	49.0	43.3	34.6
5753.7	67.5°	3315.7	497.2	46.2	40.9	35.6	35.1	37.0	40.9	37.0	29.3
5433.5	70°	2948.8	325.1	37.0	31.7	28.4	26.0	29.8	35.1	31.3	23.6
4625.6	72.5°	2393.3	198.1	27.9	23.1	20.7	16.8	23.6	28.9	25.0	17.3
3216.6	75°	1548.4	101.0	19.2	14.9	11.1	10.1	17.3	21.6	17.3	10.6
1427.3	77.5°	592.4	42.3	10.6	6.7	5.8	4.8	9.6	13.0	7.2	2.4
276.5	80°	114.0	17.8	5.3	3.4	2.9	1.9	1.4	1.0	0.0	0.0
49.0	82.5°	19.7	5.8	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
9.6	85°	6.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.4	87.5°	2.4	0.0	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>
893.0
542.0
317.4
258.2
238.5
220.2
202.9
187.1
171.7
156.8
141.9
129.8
119.7
112.0
104.8
99.1
91.4
85.1
80.8
76.5
73.6
71.2
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