

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: P939308

Luminaire Tested: **GALN-SB1D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6925 lumens
Efficiency: N/A
Efficacy: 87.0 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

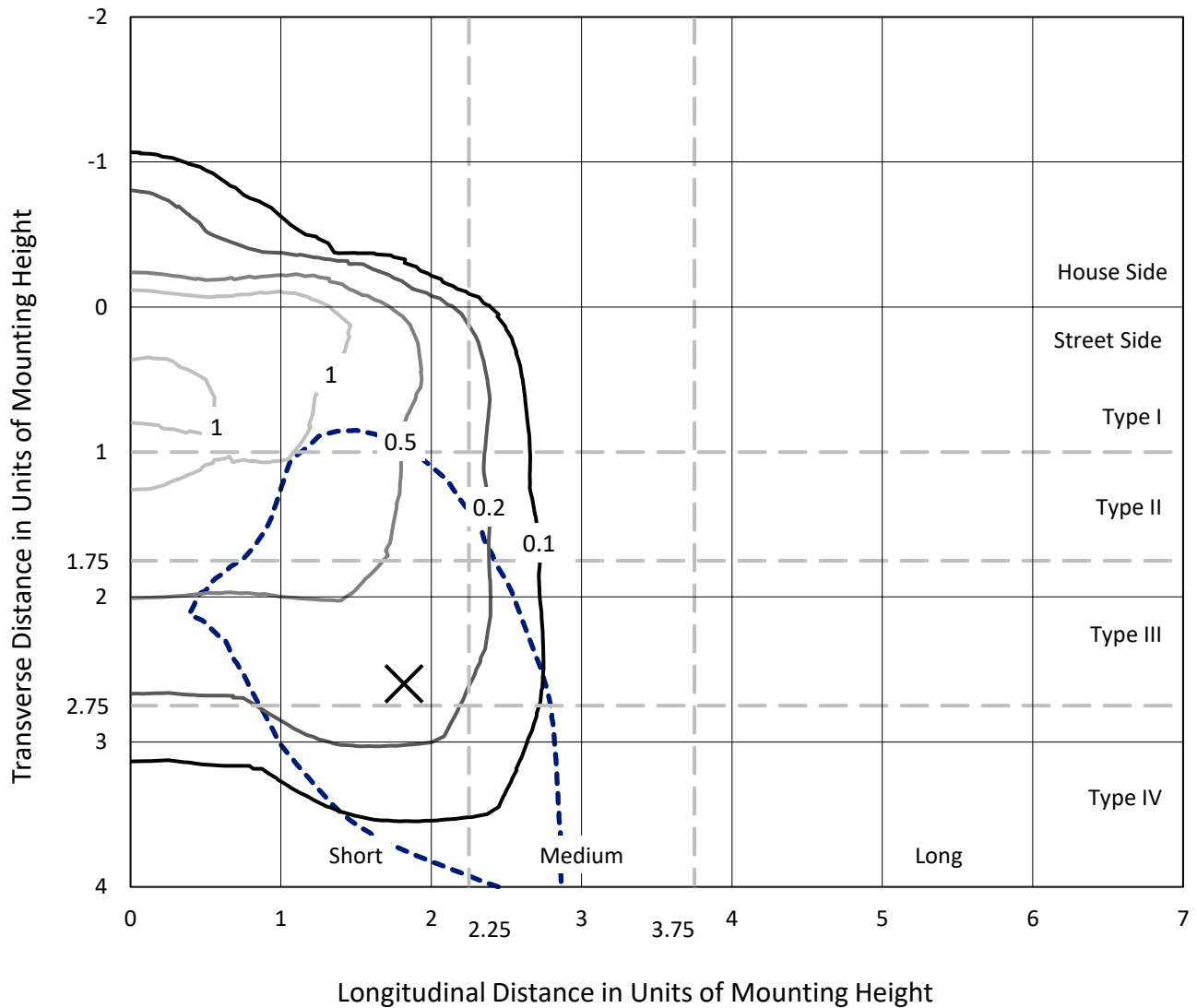
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

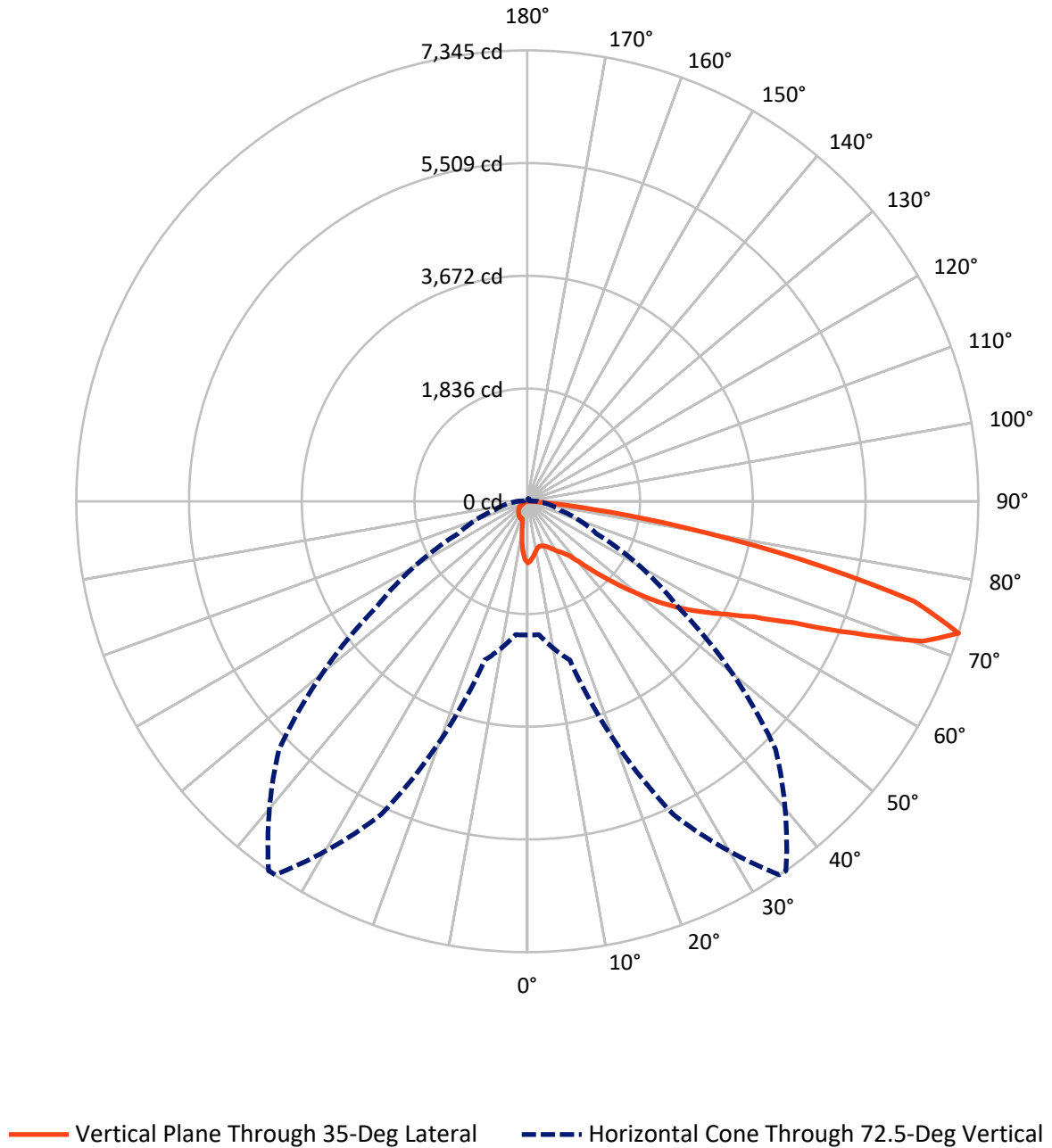
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.4	0.0	779.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6145.6	0.0	6145.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	6925.0	0.0	6925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.2
10°-20°	192.9	2.8
20°-30°	313.4	4.5
30°-40°	522.9	7.6
40°-50°	989.4	14.3
50°-60°	1572.2	22.7
60°-70°	1944.9	28.1
70°-80°	1209.0	17.5
80°-90°	97.7	1.4
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°	6925.0	100.0
0°-180°	6925.0	100.0

Coefficient of Utilization



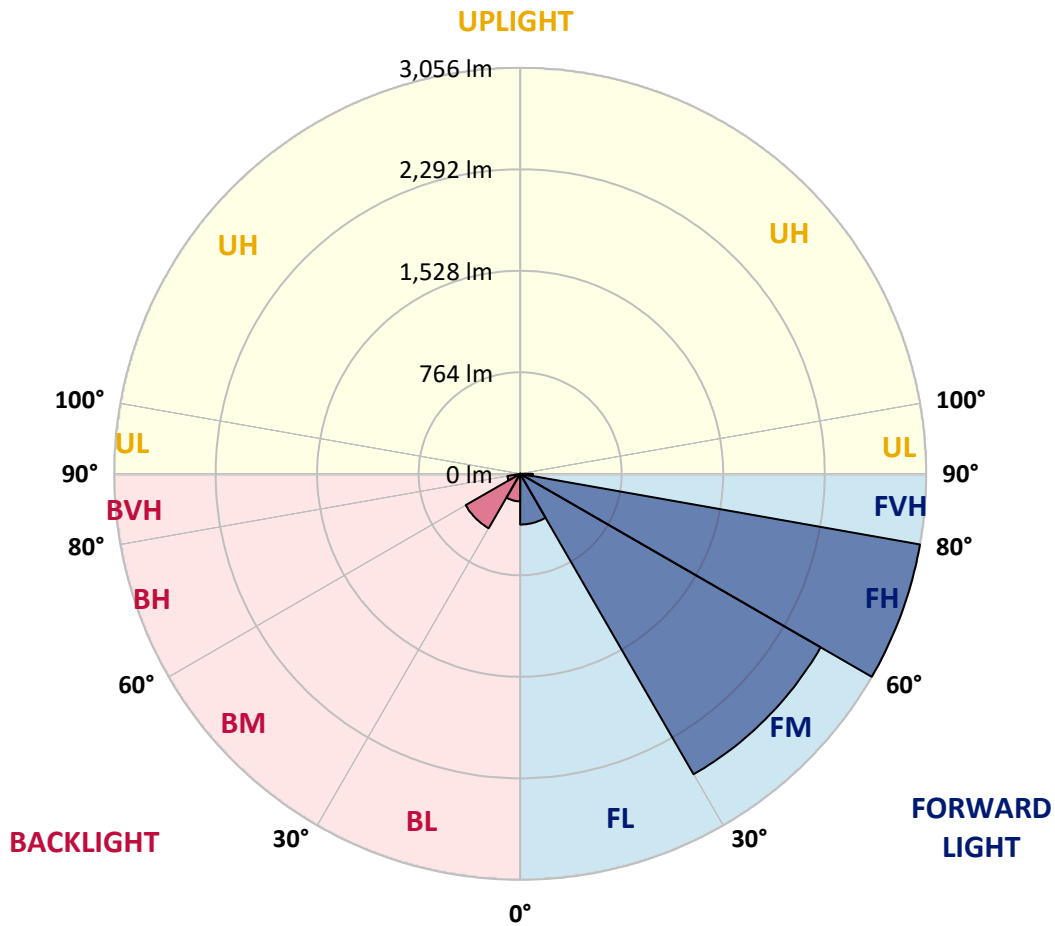
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.7	5.5			
FM (30°-60°)	2611.4	37.7			
FH (60°-80°)	3056.1	44.1			G2/5000
FVH (80°-90°)	96.4	1.4			G1/100
BL (0°-30°)	207.1	3.0	B1/500		
BM (30°-60°)	473.2	6.8	B1/1000		
BH (60°-80°)	97.8	1.4	B0/110		G0/110
BVH (80°-90°)	1.3	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°	34°	35°	45°	55°	65°	75°
0°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
2.5°	959.0	967.1	968.7	971.2	971.2	974.2	979.3	986.4	998.1	1004.2
5°	883.9	890.0	897.6	903.7	915.4	916.9	936.7	956.0	982.9	1003.2
7.5°	808.3	815.4	825.6	840.3	855.5	860.1	890.0	922.5	965.1	1003.2
10°	755.0	755.5	764.7	779.4	803.7	809.3	845.9	892.0	945.3	997.1
12.5°	725.1	728.6	732.7	743.9	767.2	770.8	809.8	864.1	925.5	993.5
15°	725.1	727.6	730.2	735.8	754.5	757.6	792.1	846.4	915.4	995.0
17.5°	732.7	736.8	734.7	741.3	761.1	763.2	793.6	841.3	914.9	1004.7
20°	751.0	754.0	750.0	754.0	773.8	777.9	809.3	850.9	923.5	1021.4
22.5°	779.9	781.4	771.8	774.8	795.1	800.2	836.7	878.3	944.3	1048.3
25°	816.4	819.5	804.8	808.3	827.6	833.7	875.8	919.4	977.3	1085.4
27.5°	858.5	860.1	847.4	846.9	871.7	880.4	923.0	970.2	1021.4	1132.0
30°	906.7	911.3	899.1	897.1	928.6	935.7	977.8	1032.6	1086.4	1202.1
32.5°	944.8	948.4	941.3	946.3	978.3	983.9	1044.3	1120.9	1188.4	1301.5
35°	999.6	1001.6	985.4	994.5	1031.1	1045.3	1135.1	1244.7	1316.7	1426.3
37.5°	1198.0	1198.0	1129.0	1083.8	1118.8	1131.5	1259.4	1400.5	1475.1	1593.8
40°	1472.5	1467.9	1367.0	1274.6	1270.1	1294.9	1436.5	1596.8	1679.5	1794.7
42.5°	1765.3	1758.2	1620.7	1529.3	1514.1	1522.7	1641.0	1838.9	1923.1	2039.8
45°	2025.1	2023.1	1897.2	1774.4	1747.0	1774.4	1896.2	2122.0	2182.4	2305.2
47.5°	2242.8	2242.8	2150.9	2070.8	2056.5	2072.8	2241.8	2436.1	2430.5	2587.8
50°	2493.4	2491.4	2404.1	2369.6	2384.3	2407.2	2639.6	2766.9	2687.3	2865.4
52.5°	2669.0	2681.2	2651.2	2645.7	2720.8	2760.3	3043.5	3090.7	2917.1	3128.7
55°	2808.0	2822.2	2856.7	2895.8	3040.4	3092.2	3434.7	3397.6	3109.4	3357.1
57.5°	3004.9	2984.6	3037.9	3115.0	3348.9	3411.3	3813.7	3687.4	3264.2	3542.3
60°	3243.9	3246.9	3256.1	3353.5	3656.9	3737.1	4187.2	3961.4	3363.6	3655.9
62.5°	3531.1	3535.7	3554.4	3704.1	4070.5	4146.1	4585.0	4185.7	3409.3	3624.0
65°	3511.3	3530.6	3740.1	4252.1	4699.2	4773.7	5049.3	4343.0	3340.3	3331.7
67.5°	3198.7	3230.2	3580.8	4906.7	5647.0	5730.2	5610.5	4373.9	3042.5	2590.9
70°	2788.7	2799.9	3221.6	5495.3	6744.5	6828.8	6112.8	4033.4	2308.7	1445.1
72.5°	2177.8	2180.4	2675.1	5631.8	7340.2	7344.8	5718.6	2994.2	1241.6	555.1
75°	1555.7	1540.5	1791.7	4567.2	6457.9	6509.6	4287.1	1404.5	474.4	262.3
77.5°	834.2	850.9	1013.8	2708.6	4461.2	4549.5	2339.2	404.9	241.5	178.6
80°	257.8	272.0	415.6	1240.1	2526.9	2580.2	867.2	180.1	168.5	127.4
82.5°	81.2	84.2	193.8	521.1	1048.8	1073.2	251.2	102.0	115.2	84.2
85°	23.3	23.8	86.3	194.3	259.3	264.4	70.5	39.6	66.0	52.3
87.5°	2.5	8.1	32.5	32.5	22.8	22.3	7.6	8.6	18.8	6.6
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°
1003.7	0°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
1008.2	2.5°	1005.7	1006.2	999.6	988.4	976.3	966.1	953.4	943.3	936.2	934.1
1017.4	5°	1012.8	1009.2	990.5	956.5	915.9	880.9	841.8	810.8	790.6	781.9
1027.0	7.5°	1023.5	1013.3	972.2	905.2	827.6	758.6	688.6	634.3	599.8	582.5
1036.1	10°	1032.6	1012.3	941.8	831.1	712.4	607.9	513.5	448.0	411.5	394.3
1046.8	12.5°	1041.2	1011.8	902.2	743.4	582.5	454.6	366.9	334.4	324.2	320.7
1064.0	15°	1057.5	1013.3	852.5	642.9	453.1	343.5	311.6	311.0	313.1	312.1
1090.4	17.5°	1079.8	1014.8	796.1	536.3	349.6	302.9	301.4	306.0	309.0	307.5
1123.4	20°	1108.7	1020.9	736.3	430.8	300.4	292.8	296.3	300.4	302.9	300.4
1167.6	22.5°	1149.3	1031.6	670.8	346.1	284.7	286.7	289.7	294.3	296.8	293.3
1223.9	25°	1199.0	1048.3	606.4	300.9	277.0	279.6	284.2	289.2	292.3	288.7
1294.9	27.5°	1263.5	1075.2	547.0	290.7	269.4	271.0	277.6	285.2	289.2	284.7
1395.9	30°	1356.8	1119.4	495.7	295.3	264.9	261.3	270.5	281.1	285.7	281.6
1533.4	32.5°	1480.6	1181.8	464.3	302.4	262.8	250.2	258.8	272.5	280.1	277.6
1713.0	35°	1643.0	1276.7	452.1	310.5	261.3	238.5	244.6	259.3	272.5	275.0
1939.3	37.5°	1839.9	1408.6	455.7	314.1	256.8	228.8	231.9	244.6	261.8	269.9
2194.1	40°	2063.7	1562.3	476.0	310.5	251.7	220.7	221.2	230.9	246.1	258.3
2468.1	42.5°	2294.5	1742.0	513.5	297.3	247.1	213.6	212.1	218.7	228.8	237.5
2741.6	45°	2514.2	1926.7	550.5	279.1	241.5	206.5	203.0	205.5	207.5	211.1
3007.9	47.5°	2706.0	2056.5	539.9	262.3	233.9	198.4	192.3	191.3	185.2	184.7
3245.9	50°	2838.5	2085.0	479.5	245.6	222.8	189.3	179.6	173.5	162.9	157.8
3424.0	52.5°	2880.6	1972.8	391.7	228.8	204.5	177.1	163.4	153.7	140.6	136.0
3526.5	55°	2824.8	1753.1	313.1	208.5	179.1	160.9	145.6	132.9	122.3	116.7
3537.7	57.5°	2688.3	1473.5	247.6	184.7	152.2	142.6	127.4	114.7	105.5	100.0
3413.9	60°	2462.0	1170.1	195.9	156.3	129.9	122.8	107.1	98.9	90.8	84.2
3094.2	62.5°	2118.5	835.2	153.7	123.8	108.6	100.5	91.3	85.2	75.6	66.5
2519.3	65°	1653.2	511.0	118.7	90.8	87.3	83.2	77.6	72.1	60.4	51.2
1643.5	67.5°	1042.7	242.0	84.7	68.5	69.0	67.0	64.4	59.9	51.2	43.1
736.3	70°	459.2	117.2	55.8	52.3	51.2	51.2	53.3	51.8	43.6	36.0
255.7	72.5°	156.3	62.9	41.6	39.6	37.0	36.5	44.7	43.1	35.0	27.9
127.4	75°	81.7	42.1	30.4	28.4	22.3	26.9	35.5	33.5	24.9	18.3
84.2	77.5°	53.3	29.9	20.8	18.3	12.7	17.8	26.4	23.3	14.7	9.1
55.3	80°	33.5	19.8	12.2	8.6	6.1	9.6	14.2	10.1	5.6	2.0
32.5	82.5°	17.8	10.1	4.6	3.0	2.5	3.0	3.6	2.5	1.0	0.0
16.7	85°	7.1	3.6	1.5	1.0	0.5	0.0	1.0	0.5	0.0	0.0
3.0	87.5°	2.5	0.5	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°
1003.7
937.7
785.0
585.0
394.8
319.7
311.6
307.0
299.9
292.8
288.2
284.7
281.1
277.6
275.0
272.0
262.3
241.0
213.1
184.2
158.3
135.5
116.7
98.9
82.7
64.9
49.7
42.1
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26.4
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