

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: P939678

Luminaire Tested: **GALN-SB2B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939678
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-SB2B-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8156 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

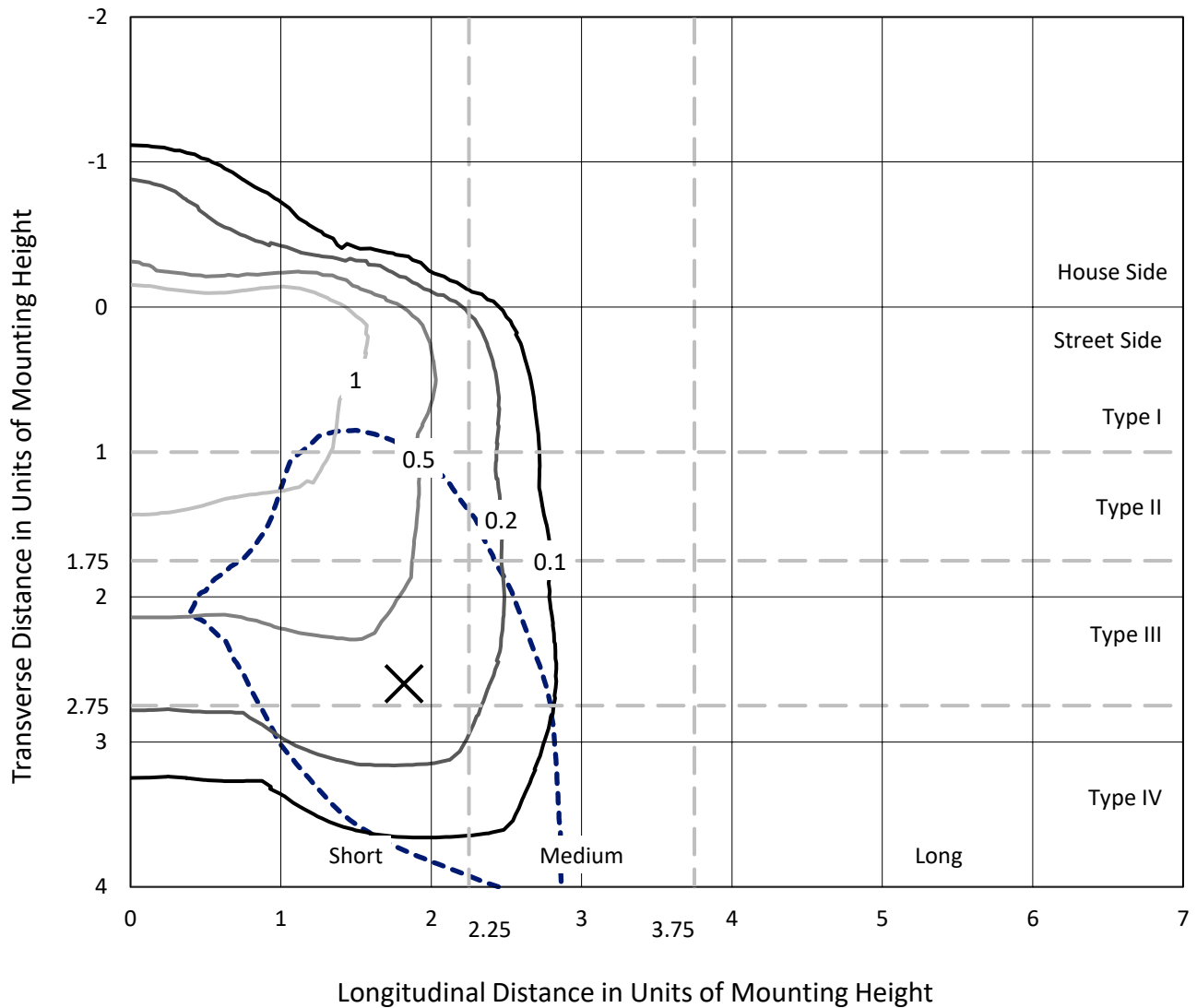
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

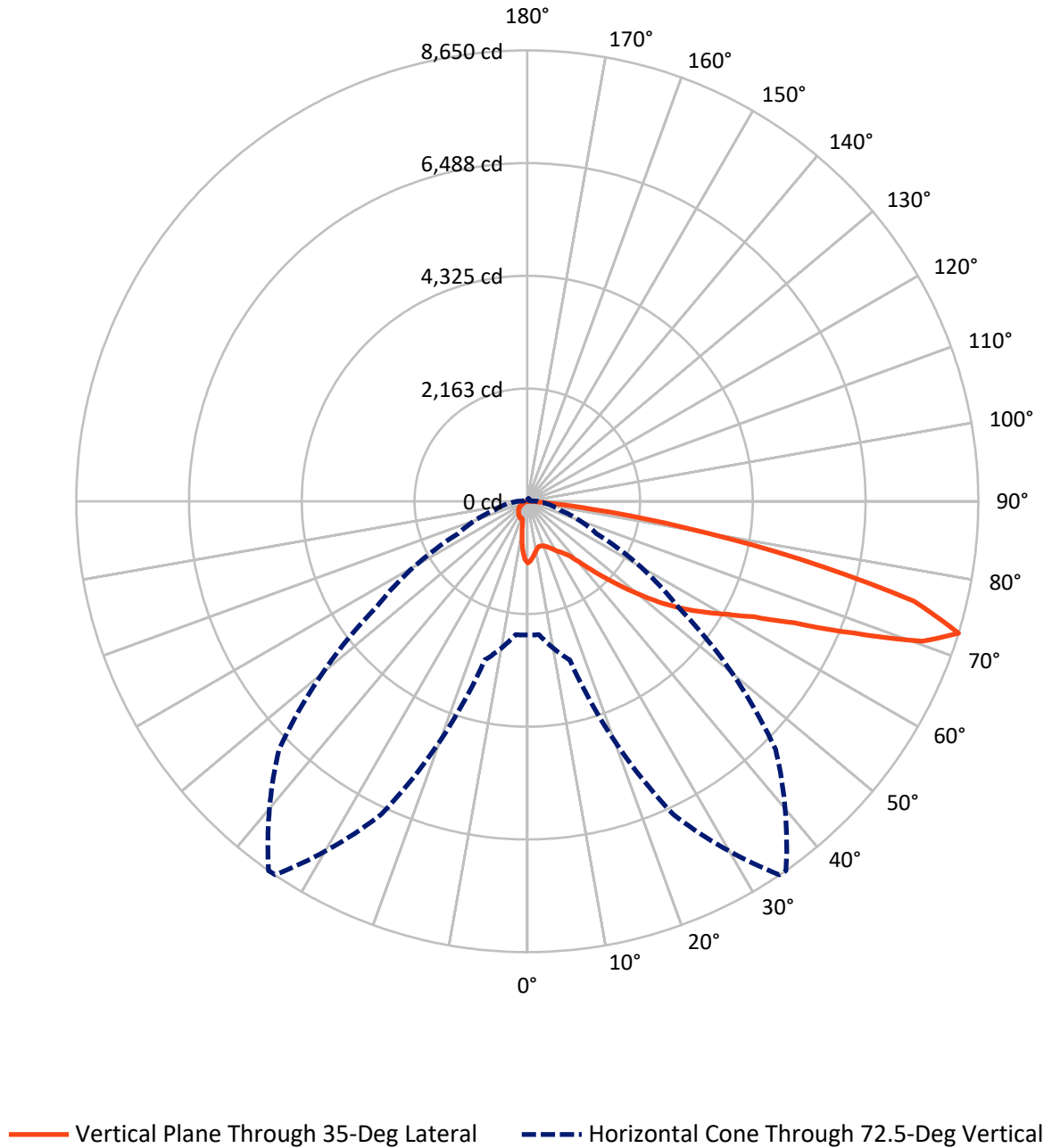
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	917.9	0.0	917.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	7238.1	0.0	7238.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	8156.0	0.0	8156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	1.2
10°-20°	227.2	2.8
20°-30°	369.1	4.5
30°-40°	615.9	7.6
40°-50°	1165.3	14.3
50°-60°	1851.7	22.7
60°-70°	2290.6	28.1
70°-80°	1423.9	17.5
80°-90°	115.1	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°	8156.0	100.0
0°-180°	8156.0	100.0

Coefficient of Utilization



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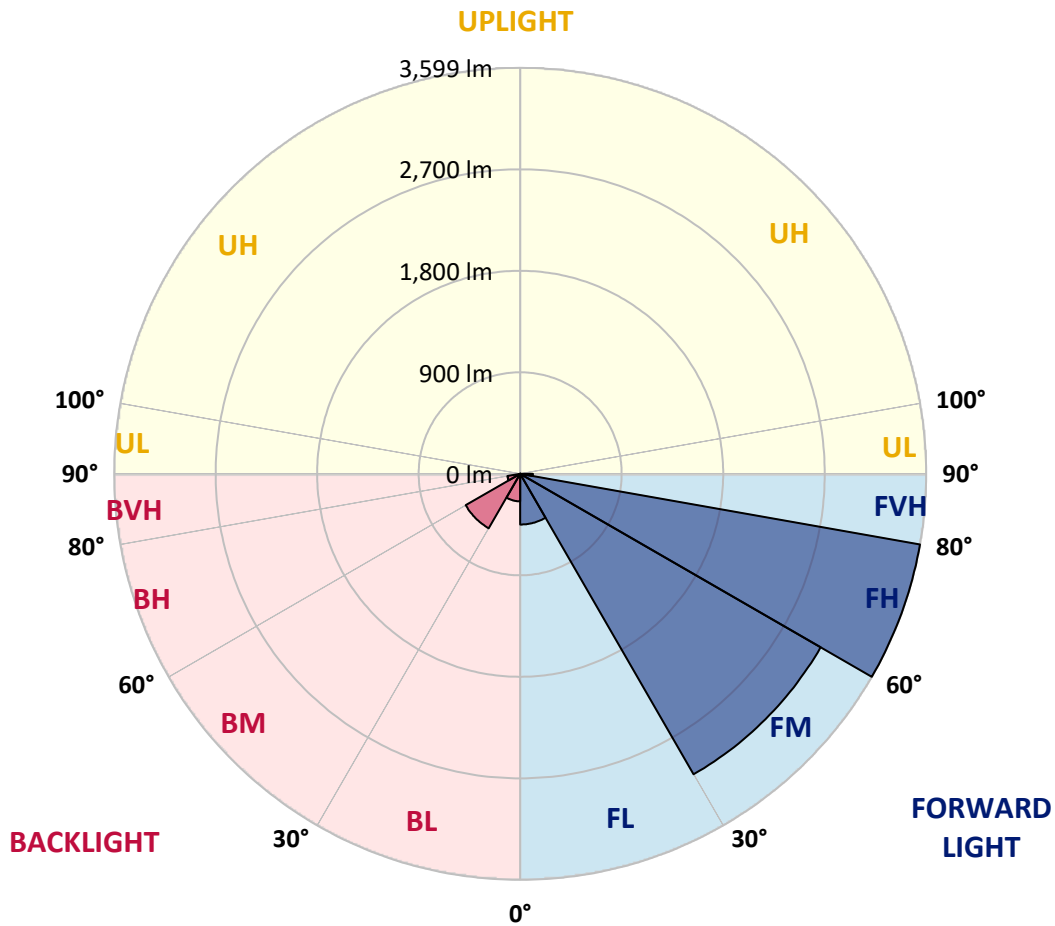
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.6	5.5			
FM (30°-60°)	3075.6	37.7			
FH (60°-80°)	3599.3	44.1			G2/5000
FVH (80°-90°)	113.5	1.4			G2/225
BL (0°-30°)	243.9	3.0	B1/500		
BM (30°-60°)	557.3	6.8	B1/1000		
BH (60°-80°)	115.2	1.4	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1
2.5°	1129.5	1139.0	1140.8	1143.8	1143.8	1147.4	1153.4	1161.8	1175.5	1182.7
5°	1041.0	1048.2	1057.2	1064.3	1078.1	1079.9	1103.2	1125.9	1157.6	1181.5
7.5°	952.0	960.4	972.3	989.6	1007.6	1013.0	1048.2	1086.5	1136.7	1181.5
10°	889.2	889.8	900.6	917.9	946.6	953.2	996.2	1050.6	1113.4	1174.3
12.5°	854.0	858.2	863.0	876.1	903.6	907.8	953.8	1017.7	1090.0	1170.1
15°	854.0	857.0	860.0	866.5	888.7	892.2	932.9	996.8	1078.1	1171.9
17.5°	863.0	867.7	865.3	873.1	896.4	898.8	934.7	990.8	1077.5	1183.3
20°	884.5	888.1	883.3	888.1	911.4	916.1	953.2	1002.2	1087.7	1203.0
22.5°	918.5	920.3	909.0	912.6	936.5	942.4	985.5	1034.5	1112.2	1234.7
25°	961.6	965.1	947.8	952.0	974.7	981.9	1031.5	1082.9	1151.0	1278.3
27.5°	1011.2	1013.0	998.0	997.4	1026.7	1036.9	1087.1	1142.6	1203.0	1333.3
30°	1067.9	1073.3	1059.0	1056.6	1093.6	1102.0	1151.6	1216.1	1279.5	1415.7
32.5°	1112.8	1116.9	1108.6	1114.5	1152.2	1158.8	1229.9	1320.1	1399.6	1532.9
35°	1177.3	1179.7	1160.6	1171.3	1214.3	1231.1	1336.9	1465.9	1550.8	1679.9
37.5°	1411.0	1411.0	1329.7	1276.5	1317.7	1332.7	1483.3	1649.4	1737.3	1877.1
40°	1734.3	1728.9	1610.0	1501.2	1495.8	1525.1	1691.8	1880.7	1978.1	2113.8
42.5°	2079.1	2070.7	1908.8	1801.2	1783.3	1793.4	1932.7	2165.7	2265.0	2402.4
45°	2385.1	2382.7	2234.5	2089.9	2057.6	2089.9	2233.3	2499.2	2570.3	2715.0
47.5°	2641.4	2641.4	2533.3	2438.9	2422.1	2441.2	2640.3	2869.1	2862.6	3047.8
50°	2936.7	2934.3	2831.5	2790.9	2808.2	2835.1	3108.8	3258.8	3165.0	3374.7
52.5°	3143.4	3157.8	3122.5	3116.0	3204.4	3251.0	3584.5	3640.1	3435.7	3684.9
55°	3307.2	3323.9	3364.6	3410.6	3580.9	3641.9	4045.2	4001.6	3662.2	3953.8
57.5°	3539.1	3515.2	3577.9	3668.7	3944.2	4017.7	4491.7	4342.9	3844.4	4171.9
60°	3820.5	3824.1	3834.9	3949.6	4307.0	4401.4	4931.5	4665.6	3961.6	4305.8
62.5°	4158.8	4164.2	4186.3	4362.6	4794.0	4883.1	5400.0	4929.7	4015.4	4268.1
65°	4135.5	4158.2	4405.0	5008.0	5534.5	5622.3	5946.8	5115.0	3934.1	3923.9
67.5°	3767.4	3804.4	4217.4	5778.9	6650.8	6748.8	6607.8	5151.4	3583.3	3051.4
70°	3284.5	3297.6	3794.2	6472.1	7943.5	8042.7	7199.4	4750.4	2719.1	1702.0
72.5°	2565.0	2567.9	3150.6	6632.9	8645.1	8650.4	6735.1	3526.5	1462.4	653.8
75°	1832.3	1814.4	2110.2	5379.1	7605.8	7666.8	5049.2	1654.2	558.8	309.0
77.5°	982.5	1002.2	1194.0	3190.1	5254.2	5358.2	2755.0	476.9	284.5	210.4
80°	303.6	320.3	489.4	1460.6	2976.1	3038.9	1021.3	212.2	198.4	150.0
82.5°	95.6	99.2	228.3	613.7	1235.3	1264.0	295.8	120.1	135.7	99.2
85°	27.5	28.1	101.6	228.9	305.4	311.4	83.1	46.6	77.7	61.6
87.5°	3.0	9.6	38.2	38.2	26.9	26.3	9.0	10.2	22.1	7.8
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°
1182.1	0°	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1	1182.1
1187.5	2.5°	1184.5	1185.1	1177.3	1164.1	1149.8	1137.9	1122.9	1111.0	1102.6	1100.2
1198.2	5°	1192.8	1188.7	1166.5	1126.5	1078.7	1037.5	991.4	955.0	931.1	920.9
1209.6	7.5°	1205.4	1193.4	1145.0	1066.1	974.7	893.4	811.0	747.0	706.4	686.1
1220.3	10°	1216.1	1192.2	1109.2	978.9	839.0	715.9	604.8	527.7	484.7	464.3
1232.9	12.5°	1226.3	1191.6	1062.6	875.5	686.1	535.5	432.1	393.8	381.9	377.7
1253.2	15°	1245.4	1193.4	1004.0	757.2	533.7	404.6	366.9	366.3	368.7	367.5
1284.3	17.5°	1271.7	1195.2	937.7	631.7	411.8	356.8	355.0	360.4	363.9	362.2
1323.1	20°	1305.8	1202.4	867.1	507.4	353.8	344.8	349.0	353.8	356.8	353.8
1375.1	22.5°	1353.6	1214.9	790.0	407.6	335.3	337.7	341.2	346.6	349.6	345.4
1441.4	25°	1412.2	1234.7	714.1	354.4	326.3	329.3	334.7	340.6	344.2	340.0
1525.1	27.5°	1488.1	1266.3	644.2	342.4	317.3	319.1	326.9	335.9	340.6	335.3
1644.0	30°	1598.0	1318.3	583.9	347.8	312.0	307.8	318.5	331.1	336.5	331.7
1806.0	32.5°	1743.8	1391.8	546.8	356.2	309.6	294.6	304.8	320.9	329.9	326.9
2017.5	35°	1935.1	1503.6	532.5	365.7	307.8	280.9	288.0	305.4	320.9	323.9
2284.1	37.5°	2166.9	1659.0	536.7	369.9	302.4	269.5	273.1	288.0	308.4	317.9
2584.1	40°	2430.5	1840.0	560.6	365.7	296.4	260.0	260.6	271.9	289.8	304.2
2906.8	42.5°	2702.4	2051.6	604.8	350.2	291.0	251.6	249.8	257.6	269.5	279.7
3228.9	45°	2961.2	2269.1	648.4	328.7	284.5	243.2	239.0	242.0	244.4	248.6
3542.6	47.5°	3187.1	2422.1	635.9	309.0	275.5	233.7	226.5	225.3	218.1	217.5
3822.9	50°	3343.0	2455.6	564.7	289.2	262.4	222.9	211.6	204.4	191.8	185.9
4032.7	52.5°	3392.6	2323.5	461.4	269.5	240.8	208.6	192.4	181.1	165.5	160.2
4153.4	55°	3326.9	2064.8	368.7	245.6	211.0	189.4	171.5	156.6	144.0	137.5
4166.6	57.5°	3166.2	1735.5	291.6	217.5	179.3	167.9	150.0	135.1	124.3	117.7
4020.7	60°	2899.6	1378.1	230.7	184.1	153.0	144.6	126.1	116.5	107.0	99.2
3644.2	62.5°	2495.0	983.7	181.1	145.8	127.9	118.3	107.6	100.4	89.0	78.3
2967.1	65°	1947.0	601.8	139.8	107.0	102.8	98.0	91.4	84.9	71.1	60.4
1935.7	67.5°	1228.1	285.1	99.8	80.7	81.3	78.9	75.9	70.5	60.4	50.8
867.1	70°	540.8	138.0	65.7	61.6	60.4	60.4	62.7	61.0	51.4	42.4
301.2	72.5°	184.1	74.1	49.0	46.6	43.6	43.0	52.6	50.8	41.2	32.9
150.0	75°	96.2	49.6	35.9	33.5	26.3	31.7	41.8	39.4	29.3	21.5
99.2	77.5°	62.7	35.3	24.5	21.5	14.9	20.9	31.1	27.5	17.3	10.8
65.1	80°	39.4	23.3	14.3	10.2	7.2	11.4	16.7	12.0	6.6	2.4
38.2	82.5°	20.9	12.0	5.4	3.6	3.0	3.6	4.2	3.0	1.2	0.0
19.7	85°	8.4	4.2	1.8	1.2	0.6	0.0	1.2	0.6	0.0	0.0
3.6	87.5°	3.0	0.6	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>
1182.1
1104.4
924.5
689.0
464.9
376.5
366.9
361.6
353.2
344.8
339.4
335.3
331.1
326.9
323.9
320.3
309.0
283.9
251.0
216.9
186.5
159.6
137.5
116.5
97.4
76.5
58.6
49.6
40.6
<i>31.1</i>
19.7
9.6
1.8
0.0
0.0
0.0
0.0

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