

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: P939606

Luminaire Tested: **GALN-SB2B-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9344 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

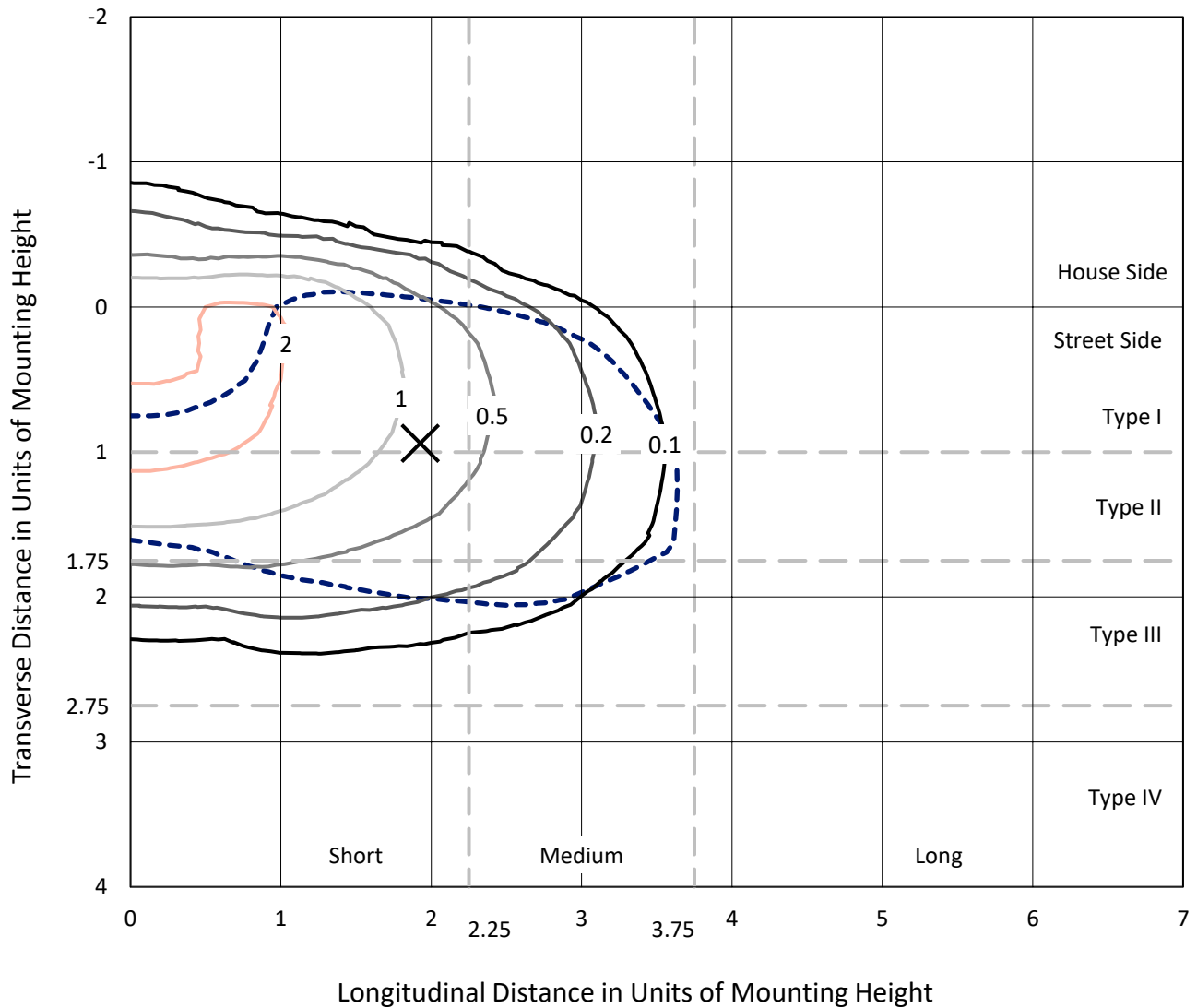
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

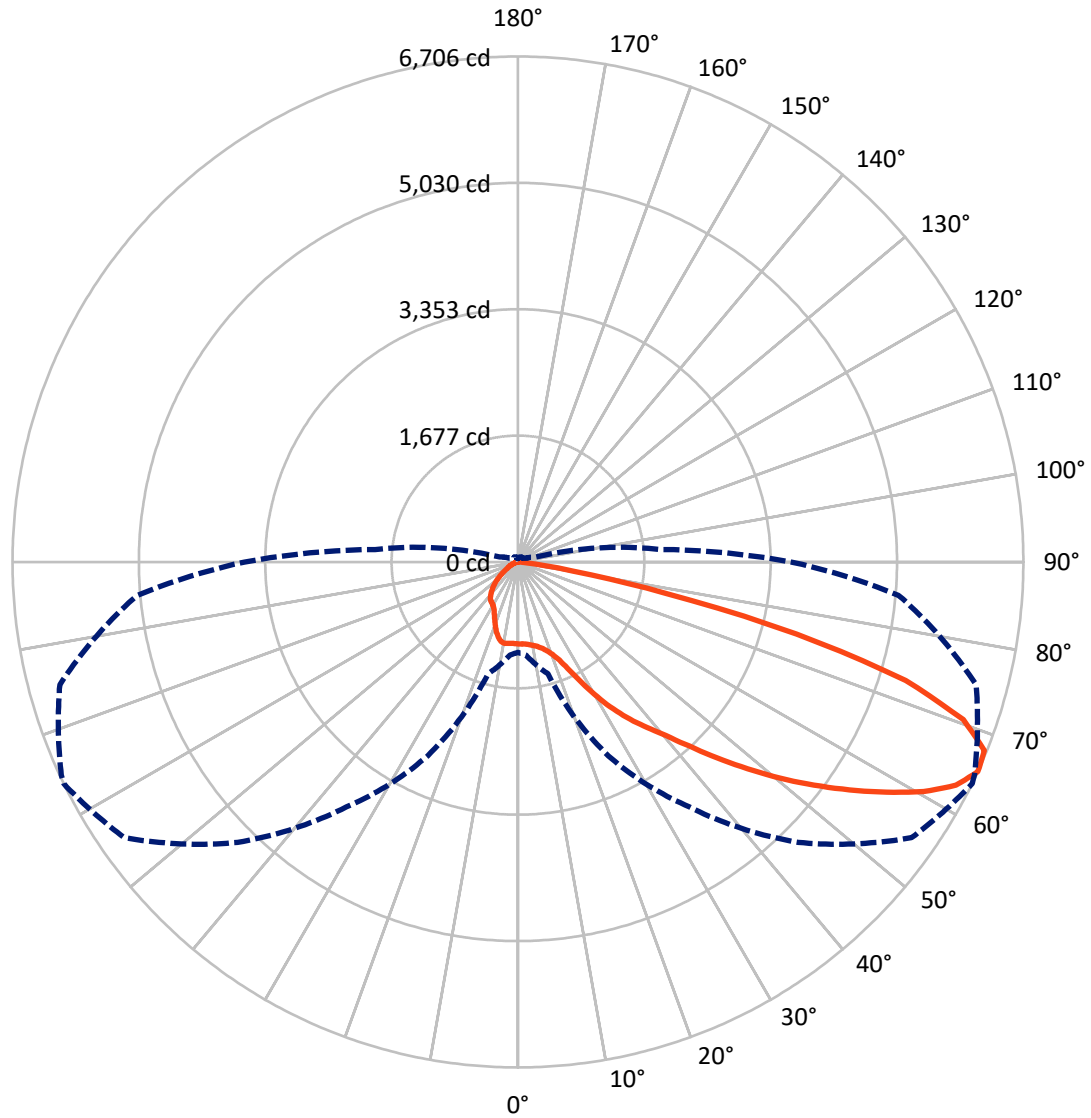
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SB2B-740-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.6	0.0	1249.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8094.4	0.0	8094.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	9344.0	0.0	9344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.1
10°-20°	272.0	2.9
20°-30°	515.3	5.5
30°-40°	1042.8	11.2
40°-50°	1776.4	19.0
50°-60°	2415.8	25.9
60°-70°	2268.5	24.3
70°-80°	908.9	9.7
80°-90°	44.0	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°	9344.0	100.0
0°-180°	9344.0	100.0

Coefficient of Utilization



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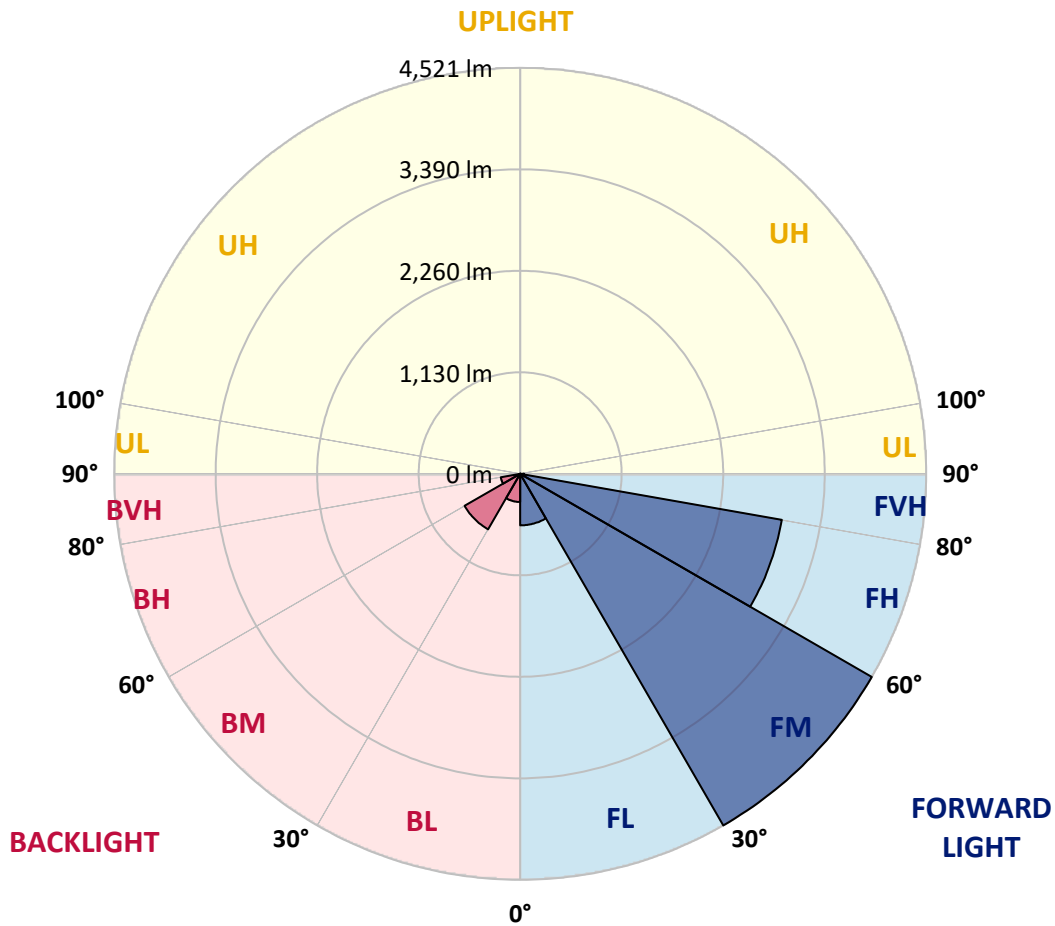
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.8	6.1			
FM (30°-60°)	4520.6	48.4			
FH (60°-80°)	2958.1	31.7			G2/5000
FVH (80°-90°)	41.9	0.4			G1/100
BL (0°-30°)	313.7	3.4	B1/500		
BM (30°-60°)	714.4	7.6	B1/1000		
BH (60°-80°)	219.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Short



REPORT NUMBER: P939606
 CATALOG NUMBER: GALN-SB2B-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
2.5°	1083.0	1090.6	1088.7	1086.8	1086.2	1087.4	1088.1	1087.4	1087.4	1087.4
5°	1062.4	1068.6	1068.6	1073.0	1079.3	1086.8	1092.4	1093.7	1094.9	1096.8
7.5°	1022.9	1027.9	1031.7	1046.1	1061.7	1081.8	1098.7	1107.5	1108.7	1115.6
10°	996.0	1002.2	1008.5	1023.5	1046.1	1076.2	1105.0	1126.3	1129.4	1145.7
12.5°	994.7	1001.0	1009.1	1025.4	1051.7	1083.7	1118.8	1149.4	1155.1	1178.9
15°	1007.9	1015.4	1022.9	1043.0	1071.1	1110.0	1147.6	1185.8	1191.4	1225.2
17.5°	1034.8	1044.8	1050.5	1070.5	1100.6	1143.8	1193.3	1237.1	1242.2	1281.6
20°	1088.1	1100.0	1101.8	1118.1	1147.6	1193.9	1252.8	1307.3	1313.6	1358.7
22.5°	1198.3	1215.2	1200.2	1208.3	1234.6	1281.0	1344.9	1413.8	1422.6	1473.9
25°	1392.5	1416.3	1377.5	1363.7	1374.9	1423.2	1503.4	1590.4	1600.5	1641.8
27.5°	1774.0	1743.3	1684.4	1626.8	1592.9	1620.5	1710.7	1818.4	1831.0	1871.1
30°	2193.0	2166.1	2086.5	1958.8	1878.6	1874.2	1957.5	2077.8	2092.2	2130.4
32.5°	2612.7	2587.0	2500.6	2343.4	2204.3	2135.4	2193.0	2326.5	2334.0	2358.4
35°	3025.5	2999.2	2912.8	2751.8	2580.8	2424.2	2412.9	2563.2	2565.7	2591.4
37.5°	3440.8	3418.9	3326.8	3169.0	3000.5	2784.3	2679.7	2787.5	2790.6	2815.7
40°	3737.1	3746.5	3683.2	3561.1	3416.4	3180.2	2979.2	3026.1	3007.3	3049.3
42.5°	3991.4	4010.2	3955.1	3893.7	3809.8	3601.8	3350.0	3341.8	3311.8	3334.3
45°	4211.3	4226.9	4177.5	4163.1	4161.2	4015.2	3755.3	3706.4	3664.4	3660.1
47.5°	4292.1	4322.2	4343.5	4391.7	4485.7	4424.3	4174.3	4098.5	4051.6	4017.1
50°	4322.8	4354.7	4427.4	4567.7	4790.1	4816.4	4591.5	4506.3	4448.7	4386.1
52.5°	4281.4	4338.4	4436.2	4672.3	4994.9	5130.8	4991.8	4917.2	4851.5	4749.4
55°	4037.8	4094.8	4294.6	4671.1	5097.0	5351.3	5370.1	5336.9	5263.0	5102.0
57.5°	3524.1	3608.7	3925.0	4512.0	5095.1	5541.1	5741.0	5764.8	5682.1	5451.6
60°	2812.5	2927.2	3313.0	4159.3	4937.9	5643.9	6066.1	6185.1	6097.4	5796.1
62.5°	1962.5	2095.3	2460.5	3606.8	4578.4	5569.9	6303.5	6523.3	6456.9	6104.3
65°	1197.1	1239.6	1534.1	2838.2	3967.0	5260.5	6376.8	6706.2	6684.3	6292.8
67.5°	797.4	833.1	917.7	1946.2	3079.4	4642.3	6201.4	6674.3	6680.6	6262.1
70°	480.4	511.1	566.3	1131.9	1995.7	3674.5	5658.3	6267.1	6303.5	5851.8
72.5°	197.9	218.6	268.7	513.0	1033.6	2332.1	4505.7	5380.8	5465.3	4920.4
75°	112.1	122.8	157.9	257.5	448.5	1086.8	2729.2	3819.8	3944.4	3391.3
77.5°	74.5	79.6	102.1	166.6	252.4	370.8	1166.4	1990.1	2228.1	1852.3
80°	50.1	54.5	70.2	111.5	164.1	159.1	371.5	737.3	907.0	636.4
82.5°	33.8	34.5	50.1	73.3	104.0	77.0	109.6	229.3	288.1	184.2
85°	19.4	18.8	37.0	42.6	46.4	31.9	33.2	68.9	90.2	77.7
87.5°	2.5	3.8	14.4	11.3	6.3	6.9	6.9	11.9	17.5	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939606
 CATALOG NUMBER: GALN-SB2B-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1086.8	0°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8
1088.1	2.5°	1088.1	1087.4	1085.6	1083.7	1079.3	1076.8	1078.0	1076.8	1076.2	1076.8
1096.2	5°	1096.2	1094.3	1089.3	1083.0	1074.3	1063.6	1056.7	1046.7	1037.3	1031.7
1118.1	7.5°	1118.1	1116.2	1109.4	1091.8	1063.6	1019.2	978.4	942.7	915.8	900.1
1153.2	10°	1153.2	1150.1	1139.4	1100.6	1026.7	929.6	848.8	781.7	737.9	717.2
1194.5	12.5°	1194.5	1190.8	1172.0	1092.4	956.5	804.9	693.4	618.9	578.2	560.0
1242.2	15°	1243.4	1238.4	1201.4	1053.6	854.4	667.1	565.0	509.3	483.0	466.7
1302.9	17.5°	1304.2	1295.4	1223.4	995.3	743.5	561.9	486.1	444.1	420.9	405.3
1382.5	20°	1383.1	1368.7	1240.9	925.8	641.4	495.5	432.8	397.8	380.2	366.4
1495.2	22.5°	1493.3	1472.7	1262.2	850.7	569.4	449.8	393.4	367.7	353.3	337.6
1652.4	25°	1629.9	1605.5	1288.5	781.1	519.9	410.3	364.6	343.3	326.4	308.2
1858.5	27.5°	1820.9	1777.1	1319.8	724.1	477.3	376.5	338.3	314.5	295.0	280.0
2092.2	30°	2033.9	1961.9	1347.4	689.7	438.5	345.1	303.8	280.0	261.8	251.2
2302.0	32.5°	2235.6	2137.9	1365.6	674.6	403.4	309.4	266.2	240.5	226.8	223.6
2507.5	35°	2426.0	2297.0	1363.7	660.2	372.1	273.7	229.3	203.0	192.3	194.2
2728.6	37.5°	2645.3	2466.8	1350.5	637.7	346.4	241.2	197.3	174.1	164.7	165.4
2997.3	40°	2900.2	2662.8	1342.4	595.1	318.2	211.1	171.0	152.2	145.3	142.8
3280.5	42.5°	3172.1	2852.6	1343.6	546.8	283.1	184.2	152.8	137.2	130.9	129.0
3595.5	45°	3445.2	3033.7	1345.5	496.7	246.2	163.5	139.7	126.5	122.8	120.3
3915.0	47.5°	3702.0	3187.8	1310.4	442.9	209.8	147.8	129.0	120.3	117.1	114.0
4235.7	50°	3941.3	3290.5	1225.9	380.2	181.0	135.3	120.9	114.6	111.5	108.4
4526.4	52.5°	4127.4	3306.8	1086.2	315.7	161.0	125.9	115.9	110.2	106.5	103.4
4761.3	55°	4210.0	3204.7	887.6	255.6	145.3	117.8	110.9	105.2	100.9	97.7
4946.1	57.5°	4188.7	2989.8	692.2	205.5	130.3	109.6	104.6	100.9	95.8	90.8
5095.8	60°	4084.1	2702.3	521.8	171.0	116.5	100.9	97.7	94.6	87.7	80.2
5153.4	62.5°	3903.1	2340.9	372.1	141.6	101.5	90.8	89.6	87.1	77.0	63.3
5068.2	65°	3626.2	1901.8	250.6	117.8	87.1	79.6	80.2	75.8	62.6	47.0
4756.3	67.5°	3221.6	1390.6	160.4	96.5	72.7	66.4	67.0	64.5	53.2	40.1
4164.9	70°	2706.0	920.8	104.6	73.3	58.3	51.4	55.1	55.7	45.1	32.6
3196.5	72.5°	1983.8	543.7	73.3	54.5	42.6	35.7	45.1	46.4	36.3	24.4
1923.0	75°	1130.7	258.1	55.1	39.5	26.3	25.1	35.1	35.1	25.1	16.3
832.5	77.5°	474.8	107.7	38.8	25.7	15.0	14.4	23.8	21.9	12.5	7.5
203.0	80°	137.2	48.2	20.7	12.5	6.3	5.6	9.4	6.9	3.1	1.3
77.0	82.5°	53.9	21.3	8.1	5.0	2.5	2.5	1.3	0.0	0.0	0.0
43.8	85°	31.9	8.8	3.8	1.9	0.6	0.0	0.0	0.0	0.0	0.0
9.4	87.5°	8.1	1.9	1.3	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>
1086.8
1079.3
1032.9
900.8
715.3
558.1
467.3
404.0
363.9
335.1
306.3
276.9
249.3
225.5
194.2
167.9
142.2
128.4
120.3
114.0
108.4
102.7
97.1
90.2
78.9
62.0
45.7
38.2
31.3
23.2
15.0
7.5
1.3
0.0
0.0
0.0
0.0

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