

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: P946838

Luminaire Tested: **GALN-SB2B-840-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946838
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-SB2B-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9120 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

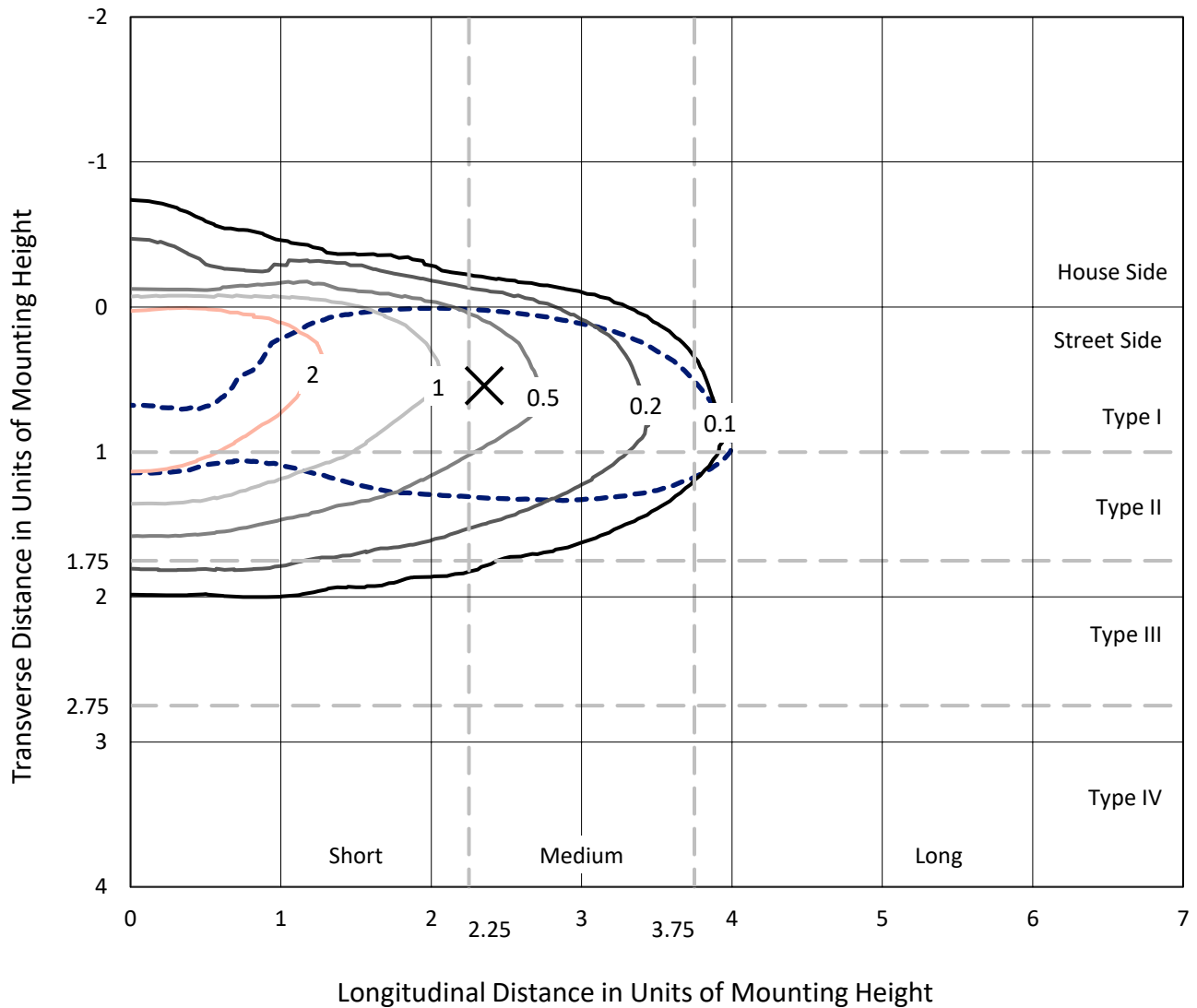
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

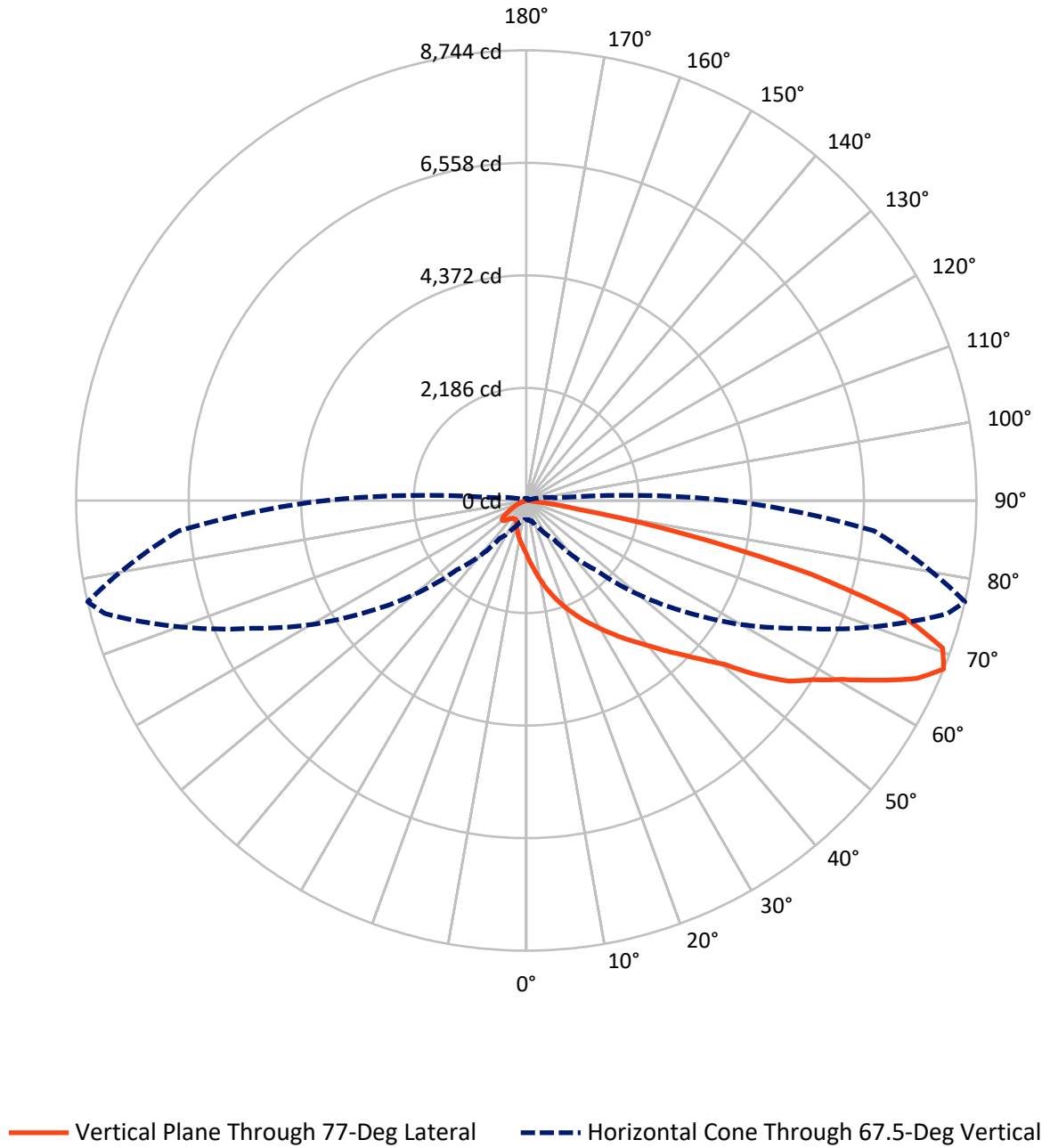
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	671.0	0.0	671.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	8449.0	0.0	8449.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	9120.0	0.0	9120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	1.2
10°-20°	375.9	4.1
20°-30°	725.4	8.0
30°-40°	1259.3	13.8
40°-50°	1828.4	20.0
50°-60°	2099.7	23.0
60°-70°	1822.9	20.0
70°-80°	858.6	9.4
80°-90°	42.5	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°	9120.0	100.0
0°-180°	9120.0	100.0

Coefficient of Utilization



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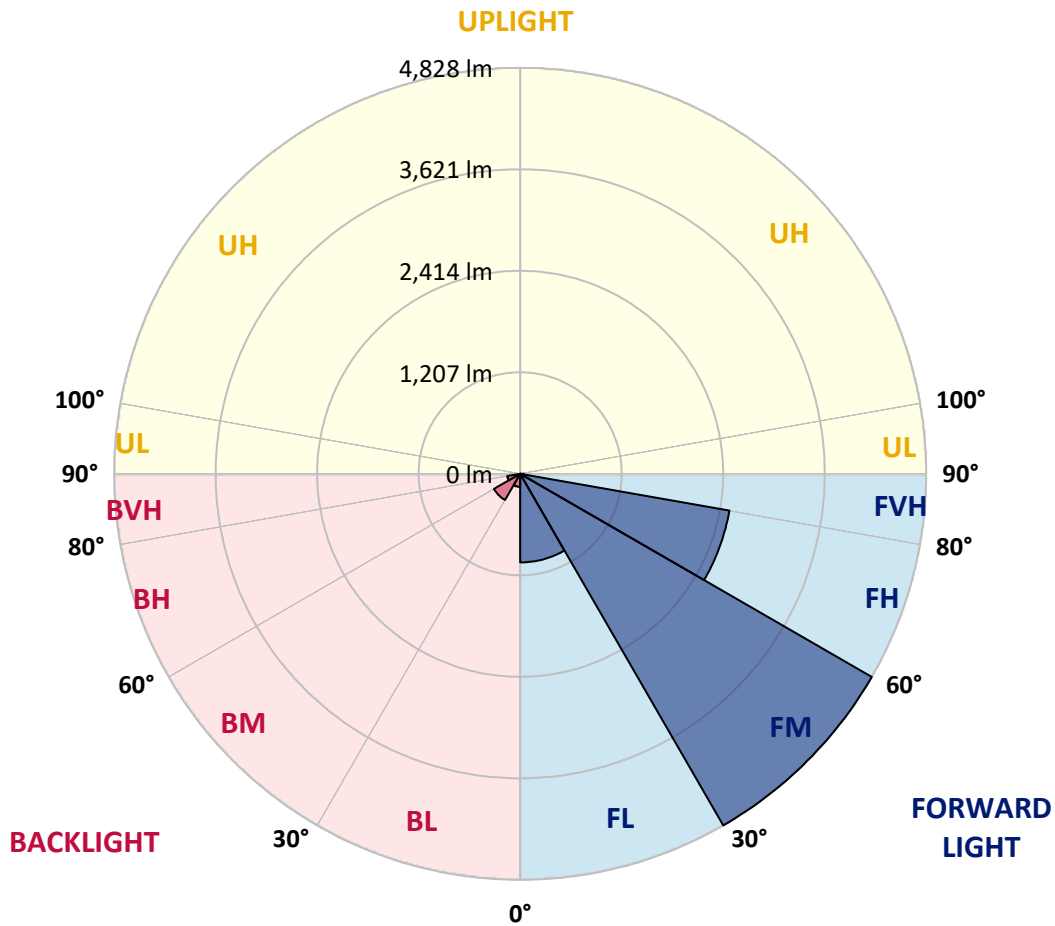
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.3	11.5			
FM (30°-60°)	4827.9	52.9			
FH (60°-80°)	2526.2	27.7			G2/5000
FVH (80°-90°)	41.7	0.5			G1/100
BL (0°-30°)	155.3	1.7	B1/500		
BM (30°-60°)	359.5	3.9	B1/1000		
BH (60°-80°)	155.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.8	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°	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7
2.5°	1456.0	1465.1	1452.1	1427.1	1389.8	1365.4	1306.0	1249.9	1187.6	1167.8
5°	1774.9	1782.8	1768.1	1740.9	1691.1	1643.5	1565.3	1448.1	1326.3	1287.3
7.5°	2011.0	2015.6	2009.9	1985.0	1937.4	1883.6	1796.4	1657.6	1477.0	1433.9
10°	2180.9	2195.7	2194.0	2184.3	2152.6	2109.0	2016.1	1858.1	1645.7	1590.2
12.5°	2293.6	2310.0	2319.7	2341.2	2339.5	2311.7	2230.2	2063.1	1813.9	1748.8
15°	2326.5	2344.0	2380.8	2430.7	2474.9	2489.0	2431.8	2264.2	1999.1	1915.9
17.5°	2307.8	2335.0	2379.1	2457.9	2554.7	2618.7	2612.5	2458.4	2167.3	2072.2
20°	2349.1	2375.2	2409.7	2476.0	2588.7	2704.8	2751.2	2644.2	2334.4	2234.7
22.5°	2577.9	2573.4	2576.8	2587.6	2654.9	2769.9	2865.6	2812.9	2499.8	2397.8
25°	2940.4	2920.0	2885.4	2827.1	2810.1	2865.6	2965.3	2962.5	2674.2	2564.9
27.5°	3356.1	3352.7	3271.7	3131.2	3051.9	3030.4	3078.0	3108.0	2846.9	2730.3
30°	3754.2	3763.2	3653.9	3497.6	3352.1	3267.7	3224.7	3246.2	3022.5	2908.7
32.5°	4100.8	4110.4	3991.5	3808.6	3628.5	3526.5	3435.9	3382.7	3213.9	3089.9
35°	4393.6	4403.2	4266.7	4064.5	3872.5	3780.2	3677.7	3532.2	3406.5	3290.9
37.5°	4655.2	4652.4	4469.5	4265.6	4077.0	4003.9	3950.1	3716.2	3604.7	3493.1
40°	4809.8	4821.7	4665.4	4440.6	4257.6	4204.4	4201.0	3944.5	3833.5	3725.3
42.5°	4855.1	4876.1	4762.8	4578.2	4412.3	4354.5	4443.4	4191.4	4099.6	3994.3
45°	4773.6	4794.0	4742.4	4614.4	4517.6	4480.2	4651.8	4447.4	4383.9	4279.7
47.5°	4535.7	4561.2	4573.7	4546.5	4545.3	4583.3	4838.7	4716.9	4721.5	4615.0
50°	4075.3	4118.3	4232.7	4329.0	4478.0	4664.8	5020.5	5009.2	5102.0	5010.3
52.5°	3238.3	3299.4	3693.6	3956.9	4291.6	4649.5	5220.4	5478.1	5769.7	5635.5
55°	2602.3	2602.3	2922.8	3415.5	3928.0	4548.7	5307.6	5782.8	6224.5	6192.8
57.5°	2121.5	2146.9	2351.4	2786.9	3401.9	4308.6	5361.4	5974.2	6590.9	6567.7
60°	1309.3	1364.3	1750.5	2180.4	2803.3	3881.0	5327.4	6167.9	7035.5	7054.2
62.5°	737.4	757.7	929.9	1568.7	2179.8	3306.2	5067.5	6276.0	7604.1	7683.4
65°	509.1	519.3	585.6	976.3	1511.0	2632.3	4559.5	6208.6	8173.8	8334.1
67.5°	369.8	374.9	416.3	596.3	896.5	1908.5	3763.2	5868.9	8475.7	8743.5
70°	284.3	287.7	317.7	391.9	529.5	1178.0	2733.1	5193.2	8257.1	8577.0
72.5°	231.1	234.5	257.7	290.0	351.1	696.6	1656.5	4217.4	7292.0	7637.5
75°	194.8	199.3	220.3	241.3	275.2	447.4	777.0	2937.0	5483.7	5710.3
77.5°	108.2	99.7	179.0	199.9	232.2	283.2	363.6	1728.4	3071.2	3134.1
80°	67.4	69.7	142.1	160.8	178.4	142.7	166.5	665.4	1064.7	1011.5
82.5°	4.0	9.1	109.3	116.1	122.3	61.2	62.9	226.0	256.5	235.6
85°	0.0	0.0	49.8	40.2	42.5	17.6	18.1	52.7	34.5	37.4
87.5°	0.0	0.0	0.0	1.1	0.0	1.7	3.4	4.5	1.7	2.3
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°
1051.7	0°	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7	1051.7
1105.5	2.5°	1065.8	1026.2	945.8	867.0	803.1	743.6	701.1	660.9	640.5	639.4
1176.8	5°	1098.1	1014.9	854.0	711.9	597.5	505.7	446.3	403.8	382.3	374.9
1264.6	7.5°	1143.4	1018.3	773.6	576.0	441.2	362.4	328.5	314.9	310.3	305.3
1363.7	10°	1200.6	1026.2	701.7	463.8	347.7	308.1	294.5	288.8	285.4	282.0
1475.3	12.5°	1264.6	1033.5	630.3	385.1	305.8	285.4	275.8	269.0	264.5	260.5
1589.7	15°	1326.9	1038.1	556.1	330.2	284.3	267.9	257.7	250.3	244.1	239.6
1701.8	17.5°	1388.6	1044.3	486.5	297.3	266.7	250.3	240.1	231.1	226.0	220.9
1819.6	20°	1457.2	1043.2	420.8	274.1	249.2	232.8	222.0	213.5	208.4	202.7
1944.2	22.5°	1520.6	1037.5	363.0	254.3	231.1	215.2	203.3	194.8	189.7	185.2
2071.6	25°	1593.6	1033.0	314.9	236.2	214.1	198.2	185.2	177.3	171.6	167.6
2199.6	27.5°	1663.9	1026.2	279.8	219.7	197.6	182.4	169.9	160.8	155.7	152.9
2331.6	30°	1733.0	1024.5	266.7	203.9	182.9	167.6	155.2	146.7	142.7	141.6
2476.5	32.5°	1816.2	1029.0	272.4	198.2	169.3	154.0	142.1	135.9	132.0	132.0
2638.0	35°	1905.1	1027.9	280.9	203.3	160.3	140.4	131.4	127.4	123.5	123.5
2816.9	37.5°	2016.7	1029.6	287.7	211.8	156.9	129.1	124.0	118.9	116.7	116.7
3012.9	40°	2183.2	1085.6	284.3	219.2	155.7	121.2	111.0	109.3	107.6	107.6
3234.3	42.5°	2387.1	1207.4	288.8	219.7	155.2	115.5	101.9	105.3	101.4	100.8
3484.0	45°	2610.2	1340.5	317.7	207.8	154.6	112.7	97.4	101.4	95.1	95.1
3773.4	47.5°	2831.6	1472.5	347.2	190.9	152.9	112.1	93.4	91.2	89.5	90.0
4150.6	50°	3136.9	1580.1	358.5	167.6	148.9	111.0	86.1	86.6	85.5	86.6
4682.4	52.5°	3469.3	1602.7	344.9	141.6	137.6	107.6	81.0	83.3	82.7	83.8
5056.7	55°	3676.6	1578.4	284.9	117.8	120.1	94.0	75.9	80.4	80.4	80.4
5422.6	57.5°	3890.7	1474.7	202.2	95.7	99.7	77.0	71.4	77.6	77.0	76.5
5863.2	60°	4044.7	1307.1	133.1	78.7	79.3	63.4	66.3	73.1	72.5	69.7
6317.4	62.5°	4159.7	1121.9	85.5	66.8	60.6	57.2	60.6	66.3	64.0	57.8
6702.5	65°	4146.6	865.3	65.7	57.2	49.8	49.8	52.7	57.8	51.0	40.8
6776.1	67.5°	3904.8	585.6	54.4	48.1	41.9	41.3	43.6	48.1	43.6	34.5
6398.9	70°	3472.7	382.8	43.6	37.4	33.4	30.6	35.1	41.3	36.8	27.8
5447.5	72.5°	2818.6	233.3	32.8	27.2	24.4	19.8	27.8	34.0	29.4	20.4
3788.2	75°	1823.6	118.9	22.7	17.6	13.0	11.9	20.4	25.5	20.4	12.5
1680.9	77.5°	697.7	49.8	12.5	7.9	6.8	5.7	11.3	15.3	8.5	2.8
325.6	80°	134.2	21.0	6.2	4.0	3.4	2.3	1.7	1.1	0.0	0.0
57.8	82.5°	23.2	6.8	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
11.3	85°	7.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	2.8	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

180°
1051.7
638.3
373.8
304.1
280.9
259.4
239.0
220.3
202.2
184.6
167.1
152.9
141.0
132.0
123.5
116.7
107.6
100.2
95.1
90.0
86.6
83.8
80.4
76.5
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56.6
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