

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: P947069

Luminaire Tested: **GALN-SB2C-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947069
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-SB2C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 13416 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

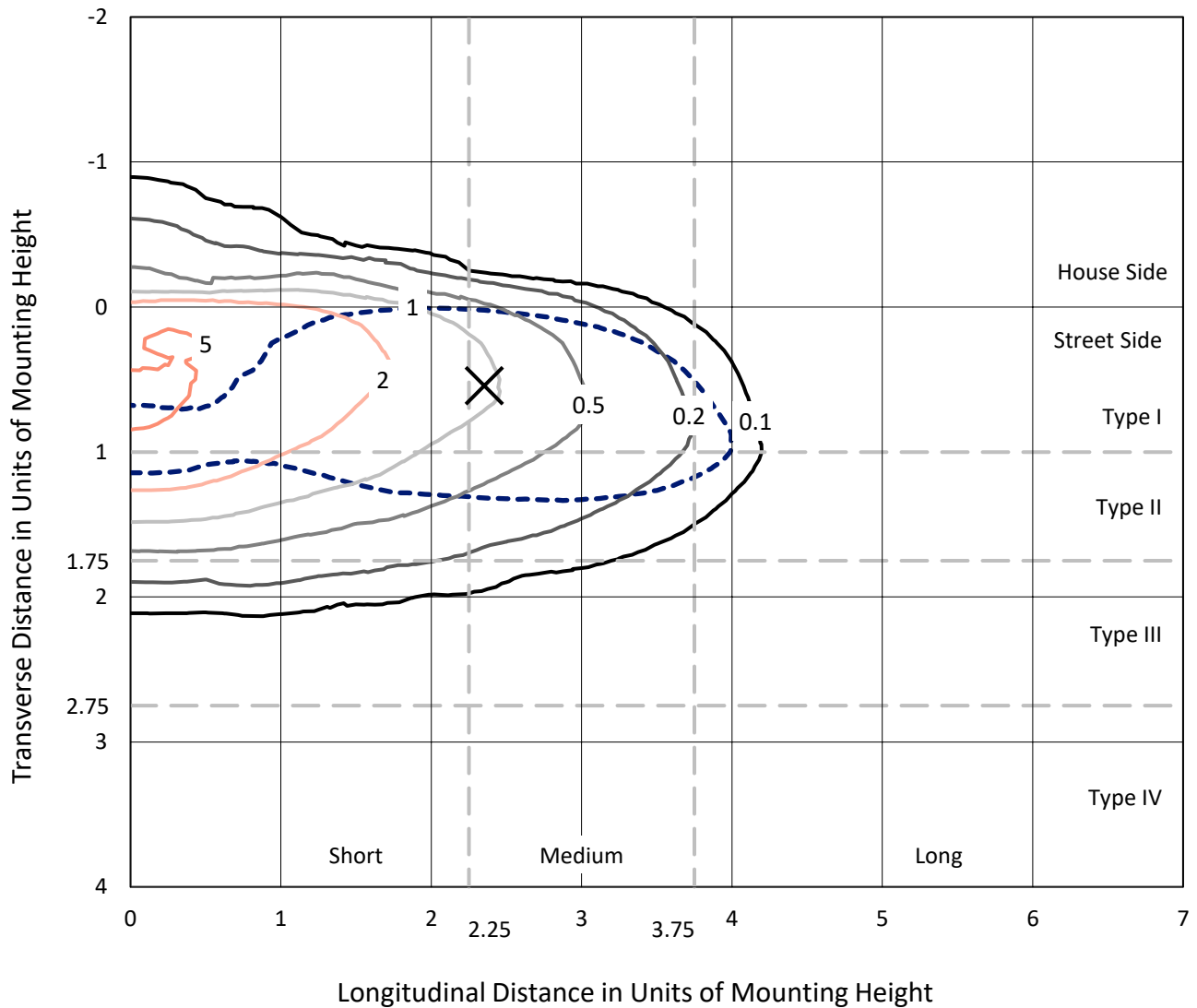
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

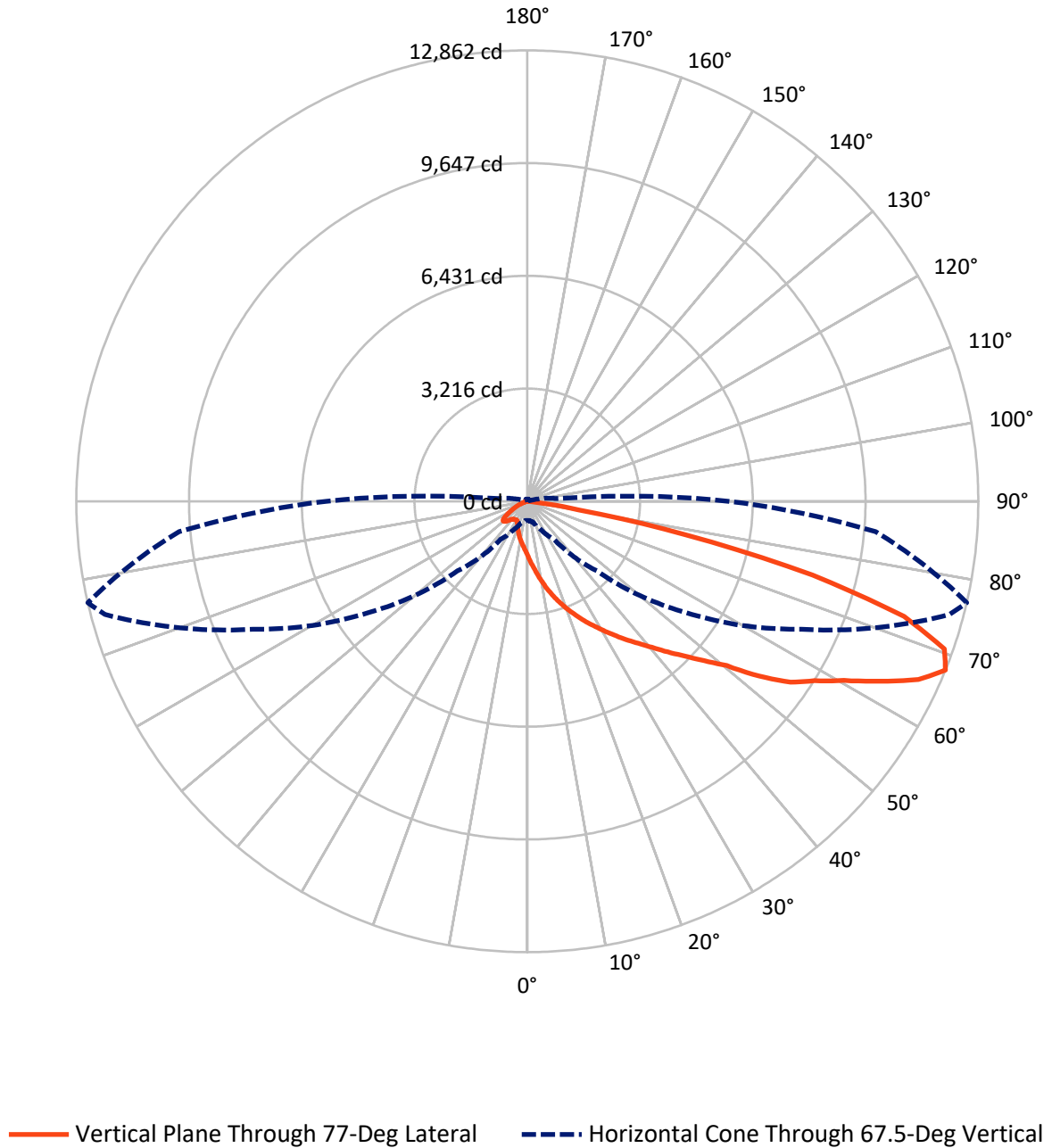
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	987.0	0.0	987.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12429.0	0.0	12429.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	13416.0	0.0	13416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.2
10°-20°	553.0	4.1
20°-30°	1067.1	8.0
30°-40°	1852.5	13.8
40°-50°	2689.7	20.0
50°-60°	3088.8	23.0
60°-70°	2681.6	20.0
70°-80°	1263.1	9.4
80°-90°	62.5	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°	13416.0	100.0
0°-180°	13416.0	100.0

Coefficient of Utilization



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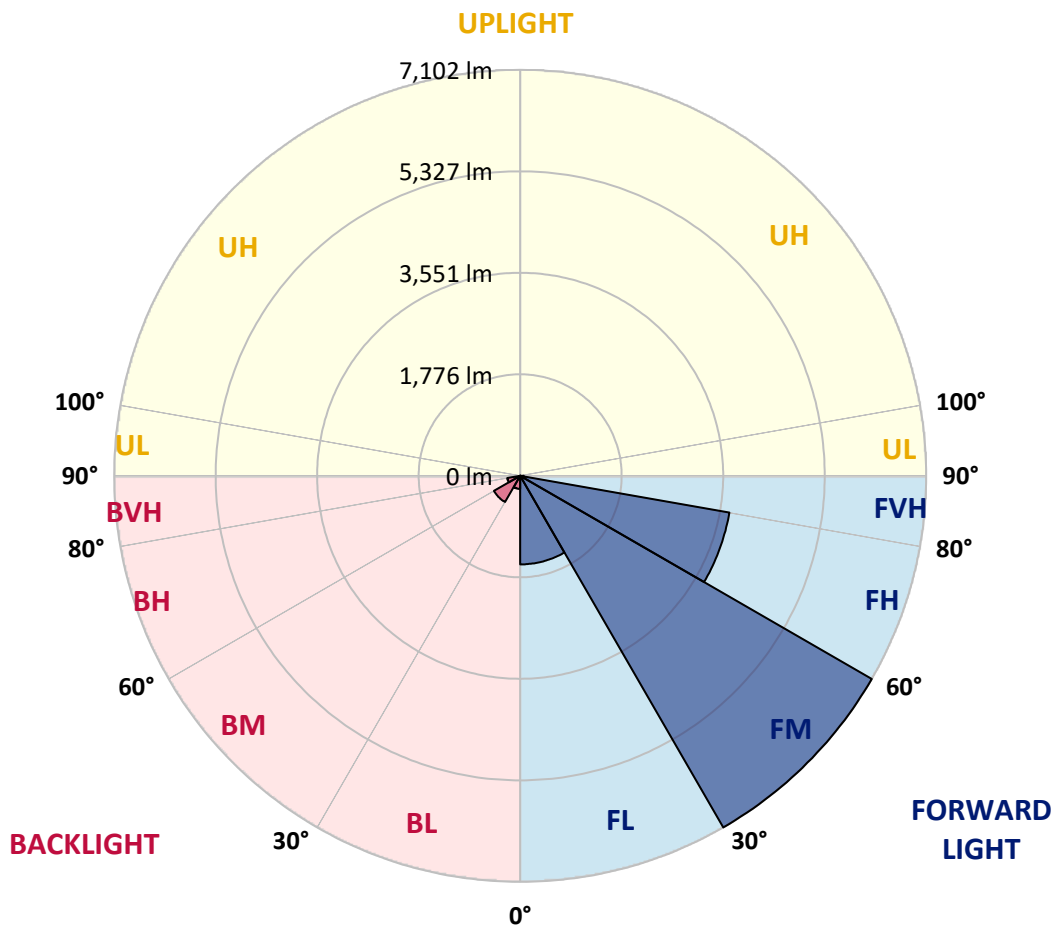
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.4	11.5			
FM (30°-60°)	7102.1	52.9			
FH (60°-80°)	3716.2	27.7			G2/5000
FVH (80°-90°)	61.3	0.5			G1/100
BL (0°-30°)	228.5	1.7	B1/500		
BM (30°-60°)	528.9	3.9	B1/1000		
BH (60°-80°)	228.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.1	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°	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1
2.5°	2141.9	2155.2	2136.1	2099.4	2044.4	2008.6	1921.1	1838.6	1747.0	1717.8
5°	2610.9	2622.6	2600.9	2560.9	2487.6	2417.6	2302.7	2130.2	1951.1	1893.6
7.5°	2958.3	2965.0	2956.7	2920.0	2850.0	2770.9	2642.6	2438.5	2172.7	2109.4
10°	3208.3	3229.9	3227.4	3213.3	3166.6	3102.5	2965.8	2733.4	2421.0	2339.3
12.5°	3374.0	3398.2	3412.4	3444.0	3441.5	3400.7	3280.7	3035.0	2668.4	2572.6
15°	3422.4	3448.2	3502.3	3575.7	3640.6	3661.5	3577.3	3330.7	2940.8	2818.4
17.5°	3394.9	3434.9	3499.8	3615.6	3758.1	3852.2	3843.1	3616.5	3188.3	3048.3
20°	3455.7	3494.0	3544.8	3642.3	3808.1	3978.9	4047.2	3889.7	3434.0	3287.4
22.5°	3792.3	3785.6	3790.6	3806.4	3905.6	4074.7	4215.5	4138.0	3677.3	3527.3
25°	4325.4	4295.5	4244.6	4158.8	4133.8	4215.5	4362.1	4357.9	3933.9	3773.1
27.5°	4936.9	4931.9	4812.8	4606.2	4489.6	4457.9	4527.9	4572.0	4188.0	4016.4
30°	5522.6	5535.9	5375.1	5145.2	4931.1	4807.0	4743.7	4775.3	4446.2	4278.8
32.5°	6032.5	6046.6	5871.7	5602.6	5337.7	5187.7	5054.4	4976.1	4727.8	4545.4
35°	6463.2	6477.3	6276.6	5979.1	5696.7	5560.9	5410.1	5196.0	5011.1	4841.1
37.5°	6848.1	6843.9	6574.8	6274.9	5997.5	5890.0	5810.9	5466.8	5302.7	5138.5
40°	7075.5	7093.0	6863.1	6532.3	6263.2	6184.9	6179.9	5802.5	5639.2	5480.1
42.5°	7142.1	7173.0	7006.3	6734.8	6490.7	6405.7	6536.5	6165.8	6030.8	5875.8
45°	7022.2	7052.2	6976.4	6788.1	6645.6	6590.6	6843.1	6542.3	6449.0	6295.7
47.5°	6672.3	6709.8	6728.1	6688.1	6686.4	6742.3	7118.0	6938.9	6945.5	6788.9
50°	5995.0	6058.3	6226.6	6368.2	6587.3	6862.2	7385.4	7368.7	7505.4	7370.4
52.5°	4763.7	4853.6	5433.5	5820.9	6313.2	6839.7	7679.5	8058.6	8487.6	8290.2
55°	3828.1	3828.1	4299.6	5024.4	5778.4	6691.4	7807.8	8506.8	9156.6	9109.9
57.5°	3120.8	3158.3	3459.0	4099.7	5004.4	6338.2	7886.9	8788.3	9695.6	9661.4
60°	1926.1	2006.9	2575.1	3207.4	4123.8	5709.2	7836.9	9073.3	10349.6	10377.1
62.5°	1084.7	1114.7	1367.9	2307.7	3206.6	4863.6	7454.6	9232.4	11186.0	11302.6
65°	749.0	764.0	861.4	1436.3	2222.7	3872.2	6707.3	9133.2	12024.1	12259.9
67.5°	544.0	551.5	612.3	877.3	1318.8	2807.5	5535.9	8633.4	12468.1	12862.2
70°	418.2	423.2	467.4	576.5	778.9	1732.8	4020.5	7639.5	12146.6	12617.3
72.5°	339.9	344.9	379.1	426.5	516.5	1024.7	2436.8	6204.1	10727.0	11235.2
75°	286.6	293.3	324.1	354.9	404.9	658.1	1143.0	4320.4	8066.9	8400.1
77.5°	159.1	146.6	263.3	294.1	341.6	416.5	534.8	2542.6	4517.9	4610.4
80°	99.1	102.5	209.1	236.6	262.4	209.9	244.9	978.9	1566.2	1487.9
82.5°	5.8	13.3	160.8	170.8	179.9	90.0	92.5	332.4	377.4	346.6
85°	0.0	0.0	73.3	59.1	62.5	25.8	26.7	77.5	50.8	55.0
87.5°	0.0	0.0	0.0	1.7	0.0	2.5	5.0	6.7	2.5	3.3
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°
1547.1	0°	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1	1547.1
1626.2	2.5°	1567.9	1509.6	1391.3	1275.5	1181.3	1093.9	1031.4	972.2	942.2	940.6
1731.2	5°	1615.4	1492.9	1256.3	1047.2	878.9	744.0	656.5	594.0	562.3	551.5
1860.3	7.5°	1682.0	1497.9	1138.0	847.3	649.0	533.2	483.2	463.2	456.5	449.0
2006.1	10°	1766.2	1509.6	1032.2	682.3	511.5	453.2	433.2	424.9	419.9	414.9
2170.2	12.5°	1860.3	1520.4	927.2	566.5	449.9	419.9	405.7	395.7	389.1	383.2
2338.5	15°	1951.9	1527.1	818.1	485.7	418.2	394.1	379.1	368.2	359.1	352.4
2503.5	17.5°	2042.8	1536.2	715.6	437.4	392.4	368.2	353.2	339.9	332.4	324.9
2676.7	20°	2143.6	1534.6	619.0	403.2	366.6	342.4	326.6	314.1	306.6	298.2
2860.0	22.5°	2236.9	1526.2	534.0	374.1	339.9	316.6	299.1	286.6	279.1	272.4
3047.5	25°	2344.3	1519.6	463.2	347.4	314.9	291.6	272.4	260.8	252.4	246.6
3235.8	27.5°	2447.6	1509.6	411.6	323.2	290.8	268.3	249.9	236.6	229.1	224.9
3429.9	30°	2549.3	1507.1	392.4	299.9	269.1	246.6	228.3	215.8	209.9	208.3
3643.1	32.5°	2671.7	1513.7	400.7	291.6	249.1	226.6	209.1	199.9	194.1	194.1
3880.6	35°	2802.5	1512.1	413.2	299.1	235.8	206.6	193.3	187.4	181.6	181.6
4143.8	37.5°	2966.7	1514.6	423.2	311.6	230.8	189.9	182.4	175.0	171.6	171.6
4432.1	40°	3211.6	1597.0	418.2	322.4	229.1	178.3	163.3	160.8	158.3	158.3
4757.8	42.5°	3511.5	1776.2	424.9	323.2	228.3	170.0	150.0	155.0	149.1	148.3
5125.2	45°	3839.7	1971.9	467.4	305.7	227.4	165.8	143.3	149.1	140.0	140.0
5550.9	47.5°	4165.5	2166.1	510.7	280.8	224.9	165.0	137.5	134.1	131.6	132.5
6105.8	50°	4614.5	2324.3	527.4	246.6	219.1	163.3	126.6	127.5	125.8	127.5
6888.0	52.5°	5103.6	2357.7	507.4	208.3	202.4	158.3	119.1	122.5	121.6	123.3
7438.7	55°	5408.5	2321.8	419.0	173.3	176.6	138.3	111.6	118.3	118.3	118.3
7976.9	57.5°	5723.4	2169.4	297.4	140.8	146.6	113.3	105.0	114.1	113.3	112.5
8625.1	60°	5950.0	1922.8	195.8	115.8	116.6	93.3	97.5	107.5	106.6	102.5
9293.2	62.5°	6119.1	1650.4	125.8	98.3	89.1	84.1	89.1	97.5	94.1	85.0
9859.7	65°	6099.9	1273.0	96.6	84.1	73.3	73.3	77.5	85.0	75.0	60.0
9968.0	67.5°	5744.2	861.4	80.0	70.8	61.6	60.8	64.1	70.8	64.1	50.8
9413.2	70°	5108.6	563.2	64.1	55.0	49.2	45.0	51.7	60.8	54.2	40.8
8013.6	72.5°	4146.3	343.2	48.3	40.0	35.8	29.2	40.8	50.0	43.3	30.0
5572.6	75°	2682.6	175.0	33.3	25.8	19.2	17.5	30.0	37.5	30.0	18.3
2472.6	77.5°	1026.4	73.3	18.3	11.7	10.0	8.3	16.7	22.5	12.5	4.2
479.0	80°	197.4	30.8	9.2	5.8	5.0	3.3	2.5	1.7	0.0	0.0
85.0	82.5°	34.2	10.0	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
16.7	85°	11.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	4.2	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°
1547.1
938.9
549.8
447.4
413.2
381.6
351.6
324.1
297.4
271.6
245.8
224.9
207.4
194.1
181.6
171.6
158.3
147.5
140.0
132.5
127.5
123.3
118.3
112.5
102.5
83.3
58.3
49.2
39.2
28.3
15.8
3.3
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