

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: P950870

Luminaire Tested: **GALN-SB5A-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950870
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-SB5A-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA 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: 13902 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

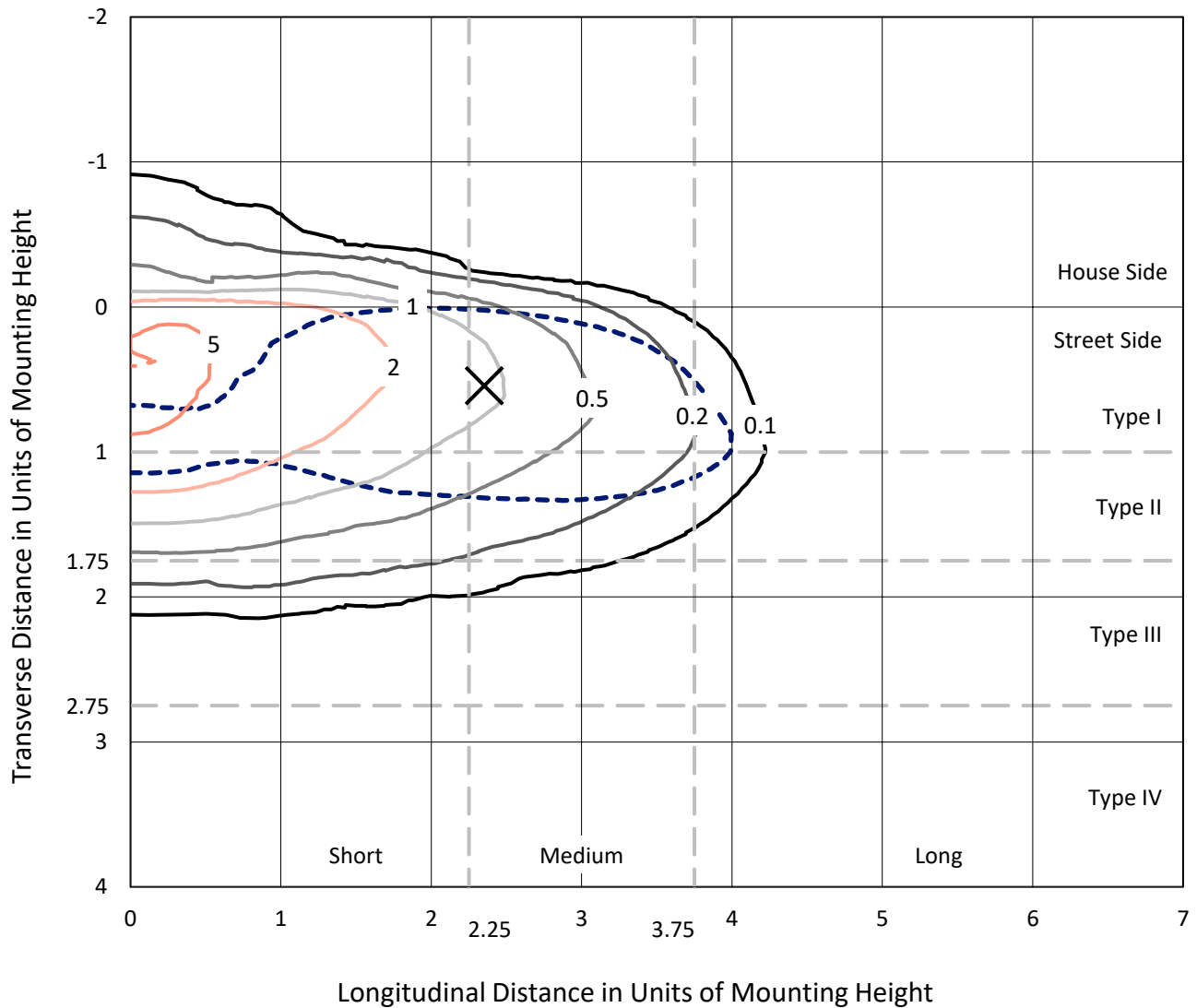
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

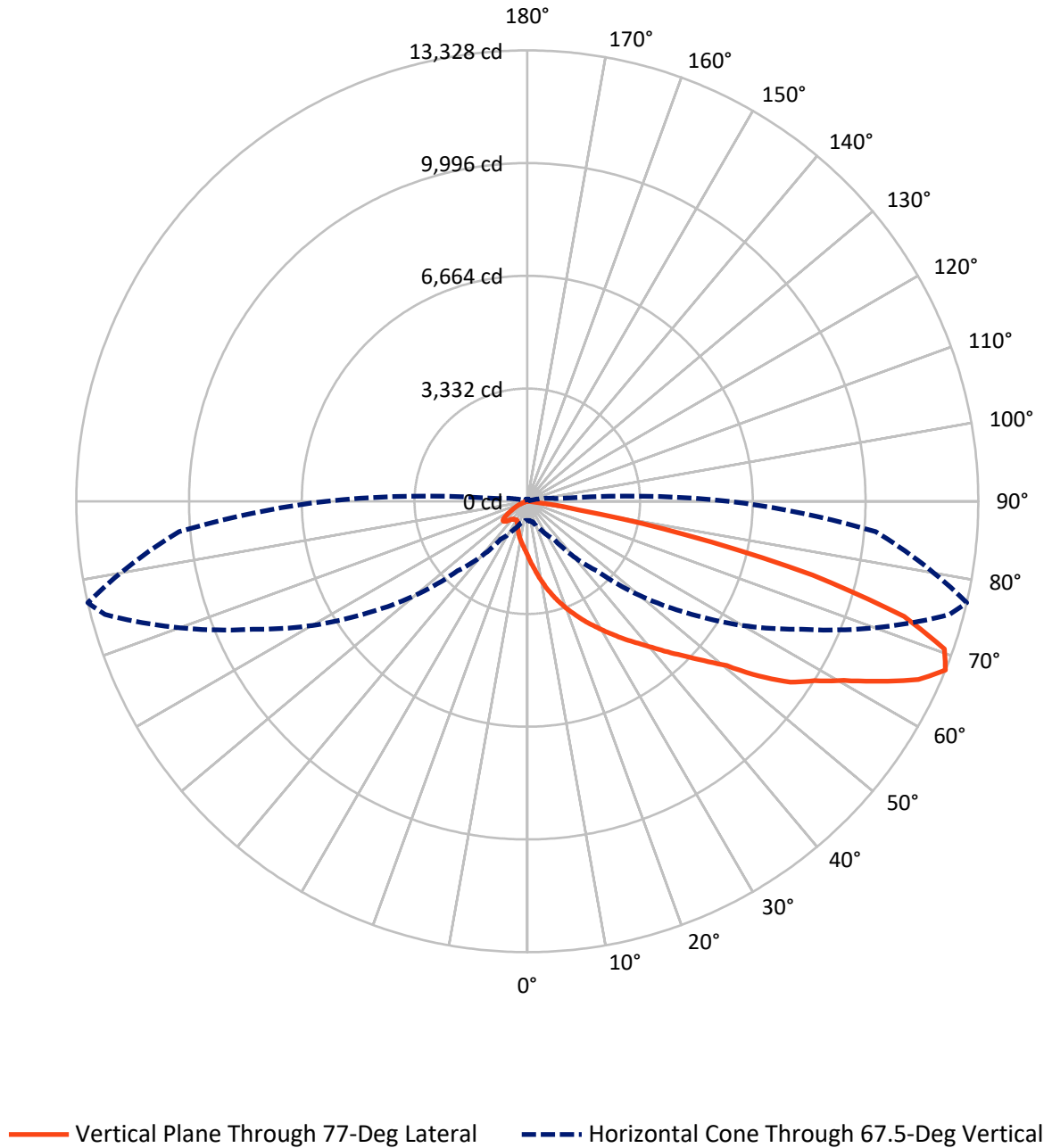
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1022.8	0.0	1022.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12879.2	0.0	12879.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	13902.0	0.0	13902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.6	1.2
10°-20°	573.0	4.1
20°-30°	1105.7	8.0
30°-40°	1919.6	13.8
40°-50°	2787.1	20.0
50°-60°	3200.7	23.0
60°-70°	2778.8	20.0
70°-80°	1308.8	9.4
80°-90°	64.7	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°	13902.0	100.0
0°-180°	13902.0	100.0

Coefficient of Utilization



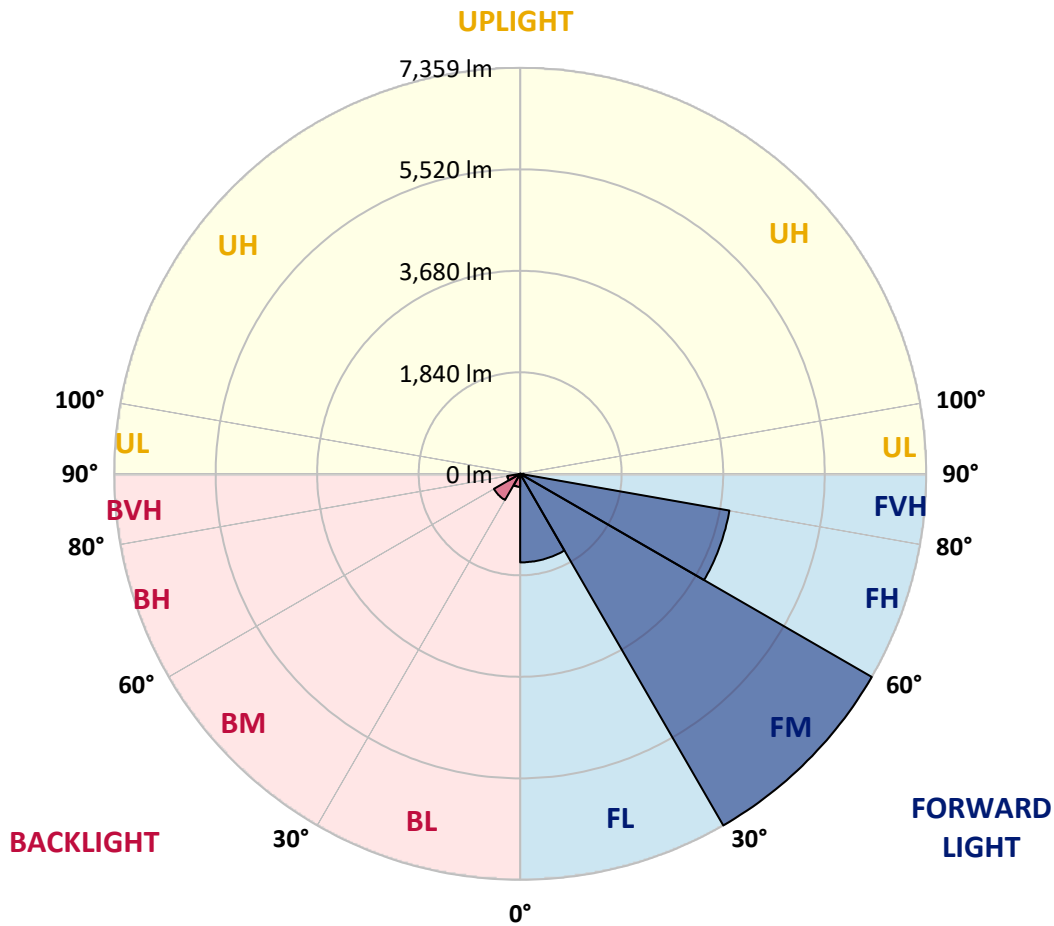
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.5	11.5			
FM (30°-60°)	7359.3	52.9			
FH (60°-80°)	3850.8	27.7			G2/5000
FVH (80°-90°)	63.5	0.5			G1/100
BL (0°-30°)	236.8	1.7	B1/500		
BM (30°-60°)	548.0	3.9	B1/1000		
BH (60°-80°)	236.8	1.7	B1/500		G1/500
BVH (80°-90°)	1.2	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1
2.5°	2219.5	2233.3	2213.4	2175.5	2118.5	2081.4	1990.7	1905.3	1810.3	1780.1
5°	2705.5	2717.6	2695.2	2653.7	2577.7	2505.2	2386.1	2207.4	2021.8	1962.2
7.5°	3065.5	3072.4	3063.8	3025.8	2953.3	2871.3	2738.3	2526.8	2251.4	2185.8
10°	3324.5	3346.9	3344.3	3329.7	3281.3	3214.8	3073.3	2832.4	2508.7	2424.1
12.5°	3496.3	3521.3	3536.0	3568.8	3566.2	3523.9	3399.6	3144.9	2765.1	2665.8
15°	3546.3	3573.1	3629.2	3705.2	3772.5	3794.1	3706.9	3451.4	3047.4	2920.5
17.5°	3517.9	3559.3	3626.6	3746.6	3894.2	3991.8	3982.3	3747.5	3303.8	3158.7
20°	3580.9	3620.6	3673.2	3774.2	3946.0	4123.0	4193.8	4030.6	3558.4	3406.5
22.5°	3929.6	3922.7	3927.9	3944.3	4047.0	4222.3	4368.2	4287.9	3810.5	3655.1
25°	4482.1	4451.1	4398.4	4309.5	4283.6	4368.2	4520.1	4515.8	4076.4	3909.8
27.5°	5115.8	5110.6	4987.1	4773.1	4652.2	4619.4	4691.9	4737.7	4339.7	4161.9
30°	5722.7	5736.5	5569.9	5331.6	5109.7	4981.1	4915.5	4948.3	4607.3	4433.8
32.5°	6251.0	6265.7	6084.4	5805.5	5531.0	5375.6	5237.5	5156.4	4899.1	4710.0
35°	6697.3	6712.0	6503.9	6195.7	5903.1	5762.4	5606.1	5384.3	5192.6	5016.5
37.5°	7096.1	7091.8	6813.0	6502.2	6214.7	6103.4	6021.4	5664.8	5494.8	5324.7
40°	7331.8	7349.9	7111.7	6769.0	6490.1	6409.0	6403.8	6012.7	5843.5	5678.6
42.5°	7400.9	7432.8	7260.2	6978.7	6725.8	6637.7	6773.3	6389.1	6249.3	6088.7
45°	7276.6	7307.6	7229.1	7034.0	6886.4	6829.4	7091.0	6779.3	6682.6	6523.8
47.5°	6914.0	6952.8	6971.8	6930.4	6928.7	6986.5	7375.8	7190.2	7197.1	7034.8
50°	6212.1	6277.7	6452.1	6598.9	6825.9	7110.8	7652.9	7635.7	7777.3	7637.4
52.5°	4936.2	5029.5	5630.3	6031.7	6541.9	7087.5	7957.7	8350.5	8795.1	8590.5
55°	3966.8	3966.8	4455.4	5206.4	5987.7	6933.8	8090.6	8814.9	9488.3	9439.9
57.5°	3233.8	3272.7	3584.3	4248.2	5185.7	6567.8	8172.6	9106.7	10046.8	10011.4
60°	1995.9	2079.6	2668.4	3323.6	4273.2	5916.0	8120.8	9401.9	10724.5	10753.0
62.5°	1124.0	1155.1	1417.5	2391.3	3322.8	5039.8	7724.6	9566.8	11591.2	11712.1
65°	776.1	791.6	892.6	1488.3	2303.2	4012.5	6950.2	9464.1	12459.7	12704.0
67.5°	563.7	571.5	634.5	909.0	1366.6	2909.2	5736.5	8946.1	12919.8	13328.1
70°	433.4	438.5	484.3	597.4	807.2	1795.6	4166.2	7916.2	12586.6	13074.3
72.5°	352.2	357.4	392.8	442.0	535.2	1061.8	2525.1	6428.8	11115.6	11642.2
75°	297.0	303.9	335.8	367.8	419.6	682.0	1184.4	4477.0	8359.1	8704.4
77.5°	164.9	151.9	272.8	304.7	353.9	431.6	554.2	2634.7	4681.5	4777.4
80°	102.7	106.2	216.7	245.2	271.9	217.5	253.8	1014.4	1623.0	1541.8
82.5°	6.0	13.8	166.6	177.0	186.5	93.2	95.8	344.4	391.1	359.1
85°	0.0	0.0	76.0	61.3	64.7	26.8	27.6	80.3	52.7	57.0
87.5°	0.0	0.0	0.0	1.7	0.0	2.6	5.2	6.9	2.6	3.5
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°
1603.1	0°	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1
1685.1	2.5°	1624.7	1564.3	1441.7	1321.7	1224.1	1133.5	1068.7	1007.4	976.4	974.6
1793.9	5°	1673.9	1547.0	1301.8	1085.1	910.8	770.9	680.3	615.5	582.7	571.5
1927.7	7.5°	1743.0	1552.2	1179.2	878.0	672.5	552.5	500.7	480.0	473.1	465.3
2078.8	10°	1830.1	1564.3	1069.6	707.0	530.1	469.6	448.9	440.3	435.1	429.9
2248.8	12.5°	1927.7	1575.5	960.8	587.0	466.2	435.1	420.4	410.1	403.2	397.1
2423.2	15°	2022.7	1582.4	847.7	503.3	433.4	408.3	392.8	381.6	372.1	365.2
2594.1	17.5°	2116.8	1591.9	741.6	453.2	406.6	381.6	366.0	352.2	344.4	336.7
2773.7	20°	2221.2	1590.2	641.4	417.8	379.8	354.8	338.4	325.5	317.7	309.1
2963.6	22.5°	2317.9	1581.5	553.4	387.6	352.2	328.0	309.9	297.0	289.2	282.3
3157.9	25°	2429.3	1574.6	480.0	360.0	326.3	302.1	282.3	270.2	261.6	255.5
3353.0	27.5°	2536.3	1564.3	426.5	335.0	301.3	278.0	259.0	245.2	237.4	233.1
3554.1	30°	2641.6	1561.7	406.6	310.8	278.8	255.5	236.5	223.6	217.5	215.8
3775.1	32.5°	2768.5	1568.6	415.2	302.1	258.1	234.8	216.7	207.2	201.1	201.1
4021.1	35°	2904.1	1566.8	428.2	309.9	244.3	214.1	200.3	194.2	188.2	188.2
4293.9	37.5°	3074.1	1569.4	438.5	322.9	239.1	196.8	189.1	181.3	177.8	177.8
4592.6	40°	3327.9	1654.9	433.4	334.1	237.4	184.7	169.2	166.6	164.0	164.0
4930.2	42.5°	3638.7	1840.5	440.3	335.0	236.5	176.1	155.4	160.6	154.5	153.7
5310.9	45°	3978.8	2043.4	484.3	316.8	235.7	171.8	148.5	154.5	145.0	145.0
5752.0	47.5°	4316.4	2244.5	529.2	290.9	233.1	170.9	142.4	139.0	136.4	137.3
6327.0	50°	4781.7	2408.5	546.5	255.5	227.0	169.2	131.2	132.1	130.4	132.1
7137.6	52.5°	5288.4	2443.1	525.7	215.8	209.8	164.0	123.4	126.9	126.0	127.8
7708.2	55°	5604.4	2406.0	434.2	179.6	183.0	143.3	115.7	122.6	122.6	122.6
8265.9	57.5°	5930.7	2248.0	308.2	145.9	151.9	117.4	108.8	118.3	117.4	116.5
8937.5	60°	6165.5	1992.4	202.9	120.0	120.9	96.7	101.0	111.4	110.5	106.2
9629.9	62.5°	6340.8	1710.2	130.4	101.9	92.4	87.2	92.4	101.0	97.6	88.1
10216.9	65°	6320.9	1319.1	100.1	87.2	76.0	76.0	80.3	88.1	77.7	62.2
10329.1	67.5°	5952.3	892.6	82.9	73.4	63.9	63.0	66.5	73.4	66.5	52.7
9754.2	70°	5293.6	583.6	66.5	57.0	50.9	46.6	53.5	63.0	56.1	42.3
8303.9	72.5°	4296.5	355.7	50.1	41.4	37.1	30.2	42.3	51.8	44.9	31.1
5774.5	75°	2779.8	181.3	34.5	26.8	19.9	18.1	31.1	38.8	31.1	19.0
2562.2	77.5°	1063.6	76.0	19.0	12.1	10.4	8.6	17.3	23.3	12.9	4.3
496.4	80°	204.6	31.9	9.5	6.0	5.2	3.5	2.6	1.7	0.0	0.0
88.1	82.5°	35.4	10.4	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
17.3	85°	12.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	4.3	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°
1603.1
972.9
569.8
463.6
428.2
395.4
364.3
335.8
308.2
281.4
254.7
233.1
215.0
201.1
188.2
177.8
164.0
152.8
145.0
137.3
132.1
127.8
122.6
116.5
106.2
86.3
60.4
50.9
40.6
29.4
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