

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: P952298

Luminaire Tested: **GALN-SB6A-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952298
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-SB6A-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 16689 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

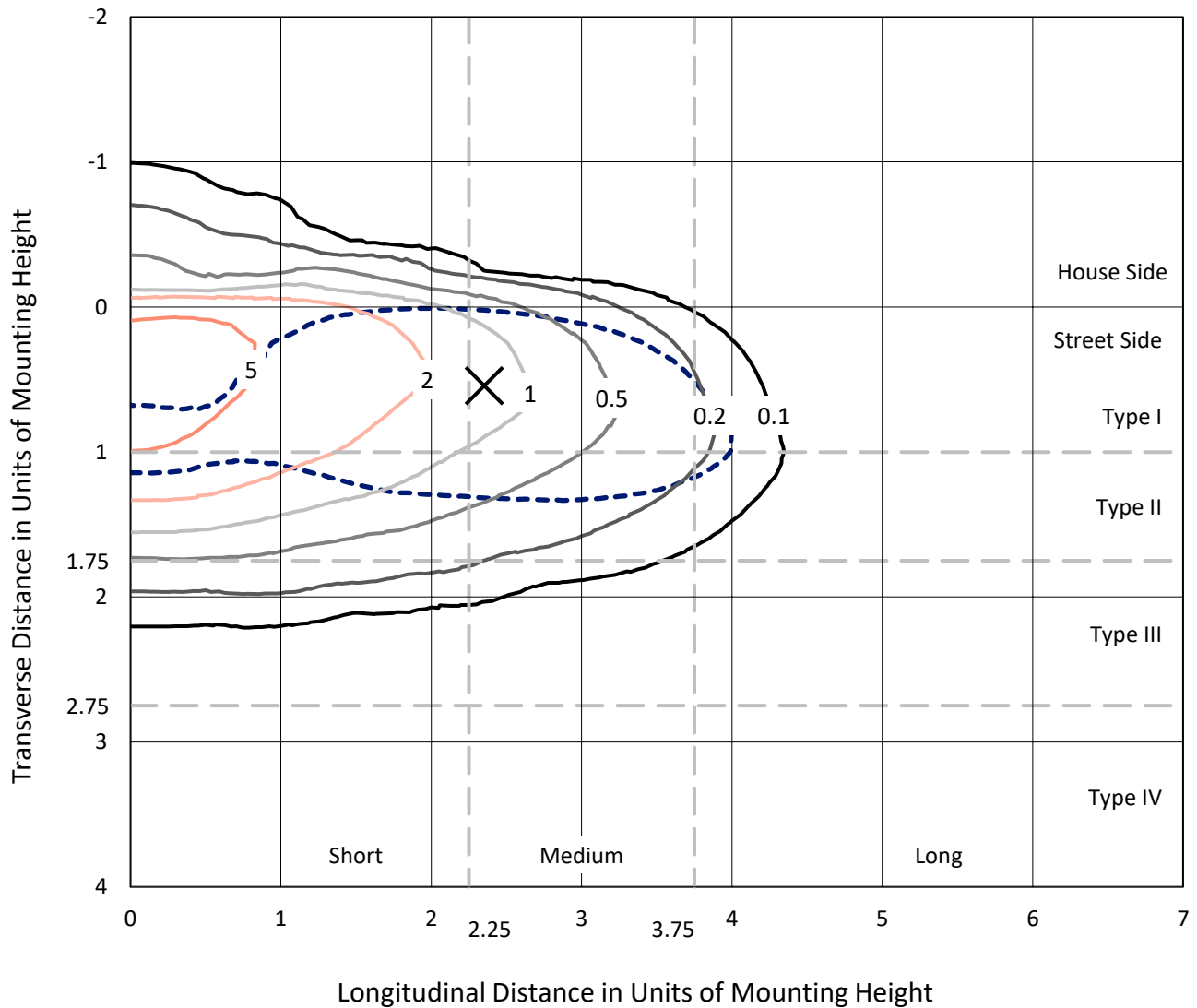
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

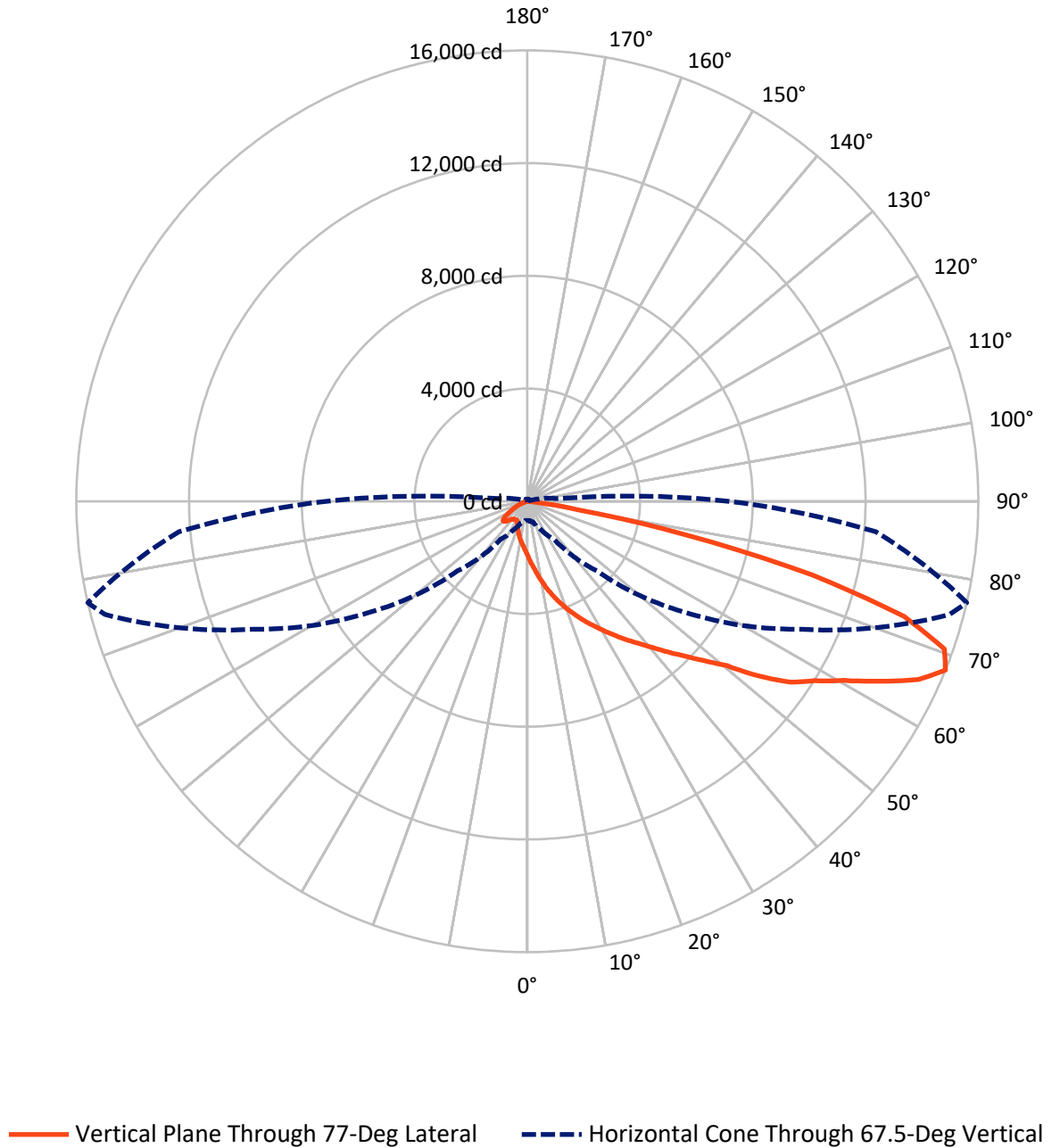
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1227.8	0.0	1227.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	15461.2	0.0	15461.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	16689.0	0.0	16689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.2
10°-20°	687.9	4.1
20°-30°	1327.4	8.0
30°-40°	2304.4	13.8
40°-50°	3345.9	20.0
50°-60°	3842.3	23.0
60°-70°	3335.8	20.0
70°-80°	1571.2	9.4
80°-90°	77.7	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°	16689.0	100.0
0°-180°	16689.0	100.0

Coefficient of Utilization



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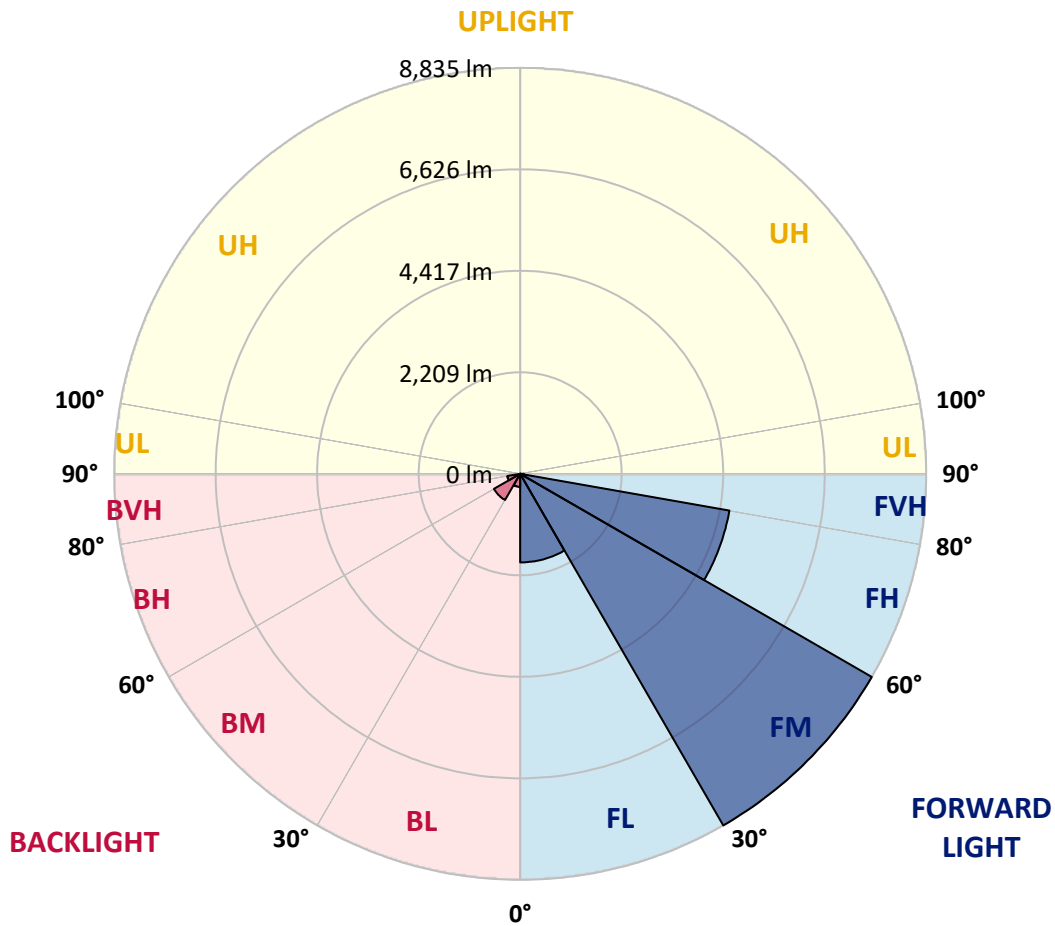
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.4	11.5			
FM (30°-60°)	8834.7	52.9			
FH (60°-80°)	4622.8	27.7			G2/5000
FVH (80°-90°)	76.3	0.5			G1/100
BL (0°-30°)	284.3	1.7	B1/500		
BM (30°-60°)	657.9	3.9	B1/1000		
BH (60°-80°)	284.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5
2.5°	2664.4	2681.0	2657.2	2611.6	2543.2	2498.6	2389.8	2287.2	2173.2	2136.9
5°	3247.9	3262.4	3235.5	3185.7	3094.5	3007.5	2864.4	2649.9	2427.1	2355.6
7.5°	3680.1	3688.3	3678.0	3632.4	3545.3	3446.9	3287.3	3033.4	2702.8	2624.0
10°	3991.0	4017.9	4014.8	3997.2	3939.1	3859.3	3689.4	3400.2	3011.6	2910.0
12.5°	4197.2	4227.2	4244.9	4284.2	4281.1	4230.3	4081.1	3775.4	3319.4	3200.2
15°	4257.3	4289.4	4356.8	4448.0	4528.8	4554.7	4450.1	4143.3	3658.3	3505.9
17.5°	4223.1	4272.8	4353.7	4497.7	4674.9	4792.0	4780.6	4498.8	3966.1	3792.0
20°	4298.7	4346.4	4409.6	4530.9	4737.1	4949.6	5034.5	4838.7	4271.8	4089.4
22.5°	4717.4	4709.1	4715.4	4735.0	4858.4	5068.7	5243.9	5147.5	4574.4	4387.9
25°	5380.7	5343.4	5280.2	5173.4	5142.3	5243.9	5426.3	5421.1	4893.6	4693.6
27.5°	6141.4	6135.1	5986.9	5729.9	5584.8	5545.5	5632.5	5687.4	5209.7	4996.2
30°	6869.9	6886.5	6686.5	6400.4	6134.1	5979.7	5900.9	5940.3	5531.0	5322.7
32.5°	7504.2	7521.8	7304.1	6969.4	6639.8	6453.3	6287.5	6190.1	5881.2	5654.3
35°	8039.9	8057.6	7807.8	7437.8	7086.5	6917.6	6730.0	6463.7	6233.6	6022.2
37.5°	8518.7	8513.5	8178.8	7805.7	7460.6	7326.9	7228.5	6800.5	6596.3	6392.2
40°	8801.7	8823.4	8537.4	8126.0	7791.2	7693.8	7687.6	7218.1	7015.0	6817.1
42.5°	8884.6	8922.9	8715.6	8377.8	8074.1	7968.4	8131.1	7670.0	7502.1	7309.3
45°	8735.3	8772.6	8678.3	8444.1	8266.9	8198.5	8512.5	8138.4	8022.3	7831.6
47.5°	8300.1	8346.7	8369.5	8319.8	8317.7	8387.1	8854.5	8631.7	8640.0	8445.2
50°	7457.5	7536.3	7745.6	7921.8	8194.4	8536.3	9187.2	9166.4	9336.4	9168.5
52.5°	5925.8	6037.7	6759.0	7240.9	7853.4	8508.4	9553.0	10024.5	10558.3	10312.6
55°	4762.0	4762.0	5348.6	6250.2	7188.1	8323.9	9712.6	10582.1	11390.4	11332.4
57.5°	3882.1	3928.8	4302.9	5099.8	6225.3	7884.5	9811.0	10932.4	12060.9	12018.5
60°	2396.0	2496.5	3203.3	3989.9	5129.9	7102.1	9748.9	11286.8	12874.5	12908.7
62.5°	1349.3	1386.6	1701.7	2870.7	3988.9	6050.2	9273.2	11484.7	13915.0	14060.1
65°	931.7	950.3	1071.6	1786.7	2765.0	4816.9	8343.6	11361.4	14957.5	15250.8
67.5°	676.7	686.1	761.7	1091.3	1640.5	3492.5	6886.5	10739.6	15509.9	16000.1
70°	520.2	526.5	581.4	717.1	969.0	2155.6	5001.4	9503.3	15109.9	15695.4
72.5°	422.8	429.0	471.5	530.6	642.5	1274.7	3031.3	7717.6	13343.9	13976.1
75°	356.5	364.8	403.1	441.5	503.7	818.7	1421.9	5374.5	10034.9	10449.4
77.5°	197.9	182.4	327.5	365.8	424.9	518.2	665.3	3162.9	5620.1	5735.1
80°	123.3	127.5	260.1	294.3	326.4	261.2	304.7	1217.7	1948.3	1850.9
82.5°	7.3	16.6	200.0	212.5	223.8	111.9	115.0	413.5	469.5	431.1
85°	0.0	0.0	91.2	73.6	77.7	32.1	33.2	96.4	63.2	68.4
87.5°	0.0	0.0	0.0	2.1	0.0	3.1	6.2	8.3	3.1	4.1
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°
1924.5	0°	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5	1924.5
2022.9	2.5°	1950.4	1877.9	1730.7	1586.6	1469.5	1360.7	1283.0	1209.4	1172.1	1170.0
2153.5	5°	2009.5	1857.1	1562.8	1302.7	1093.3	925.5	816.6	738.9	699.5	686.1
2314.2	7.5°	2092.4	1863.3	1415.6	1054.0	807.3	663.3	601.1	576.2	567.9	558.6
2495.5	10°	2197.0	1877.9	1284.0	848.8	636.3	563.8	538.9	528.5	522.3	516.1
2699.7	12.5°	2314.2	1891.3	1153.4	704.7	559.6	522.3	504.7	492.3	484.0	476.7
2909.0	15°	2428.1	1899.6	1017.7	604.2	520.2	490.2	471.5	458.1	446.7	438.4
3114.2	17.5°	2541.1	1911.0	890.2	544.1	488.1	458.1	439.4	422.8	413.5	404.2
3329.8	20°	2666.5	1908.9	770.0	501.6	456.0	425.9	406.2	390.7	381.4	371.0
3557.8	22.5°	2782.6	1898.6	664.3	465.3	422.8	393.8	372.0	356.5	347.2	338.9
3790.9	25°	2916.3	1890.3	576.2	432.2	391.7	362.7	338.9	324.4	314.0	306.8
4025.2	27.5°	3044.8	1877.9	512.0	402.1	361.7	333.7	310.9	294.3	285.0	279.8
4266.6	30°	3171.2	1874.7	488.1	373.1	334.7	306.8	284.0	268.4	261.2	259.1
4531.9	32.5°	3323.5	1883.0	498.5	362.7	309.9	281.9	260.1	248.7	241.5	241.5
4827.3	35°	3486.3	1881.0	514.0	372.0	293.3	257.0	240.4	233.2	225.9	225.9
5154.8	37.5°	3690.4	1884.1	526.5	387.6	287.1	236.3	227.0	217.6	213.5	213.5
5513.3	40°	3995.1	1986.7	520.2	401.1	285.0	221.8	203.1	200.0	196.9	196.9
5918.5	42.5°	4368.2	2209.5	528.5	402.1	284.0	211.4	186.5	192.8	185.5	184.5
6375.6	45°	4776.5	2453.0	581.4	380.3	282.9	206.2	178.3	185.5	174.1	174.1
6905.1	47.5°	5181.7	2694.5	635.3	349.2	279.8	205.2	171.0	166.9	163.7	164.8
7595.4	50°	5740.3	2891.4	656.0	306.8	272.6	203.1	157.5	158.6	156.5	158.6
8568.5	52.5°	6348.6	2932.8	631.1	259.1	251.8	196.9	148.2	152.3	151.3	153.4
9253.5	55°	6727.9	2888.3	521.3	215.6	219.7	172.0	138.9	147.2	147.2	147.2
9923.0	57.5°	7119.7	2698.6	370.0	175.1	182.4	140.9	130.6	142.0	140.9	139.9
10729.2	60°	7401.6	2391.9	243.5	144.1	145.1	116.1	121.3	133.7	132.7	127.5
11560.4	62.5°	7611.9	2053.0	156.5	122.3	110.9	104.7	110.9	121.3	117.1	105.7
12265.1	65°	7588.1	1583.5	120.2	104.7	91.2	91.2	96.4	105.7	93.3	74.6
12399.8	67.5°	7145.6	1071.6	99.5	88.1	76.7	75.7	79.8	88.1	79.8	63.2
11709.6	70°	6354.8	700.6	79.8	68.4	61.1	56.0	64.3	75.7	67.4	50.8
9968.6	72.5°	5157.9	427.0	60.1	49.7	44.6	36.3	50.8	62.2	53.9	37.3
6932.1	75°	3337.0	217.6	41.5	32.1	23.8	21.8	37.3	46.6	37.3	22.8
3075.9	77.5°	1276.8	91.2	22.8	14.5	12.4	10.4	20.7	28.0	15.5	5.2
595.9	80°	245.6	38.3	11.4	7.3	6.2	4.1	3.1	2.1	0.0	0.0
105.7	82.5°	42.5	12.4	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
20.7	85°	14.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.3	87.5°	5.2	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

<u>180°</u>
1924.5
1168.0
684.0
556.5
514.0
474.6
437.3
403.1
370.0
337.8
305.7
279.8
258.0
241.5
225.9
213.5
196.9
183.4
174.1
164.8
158.6
153.4
147.2
139.9
127.5
103.6
72.5
61.1
48.7
35.2
19.7
4.1
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