

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: P947405

Luminaire Tested: **GALN-SB2D-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947405
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-SB2D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA 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: 17230 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

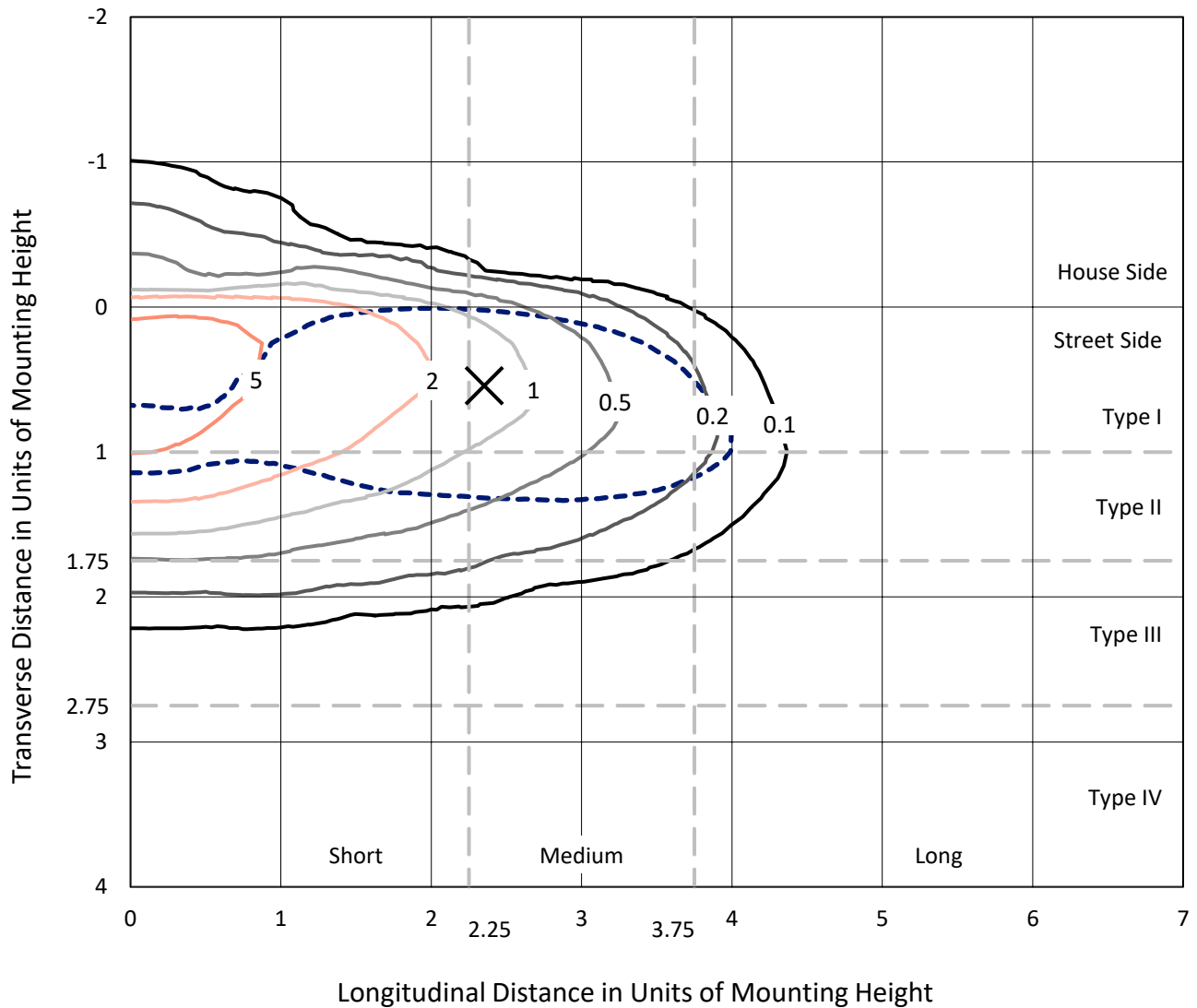
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

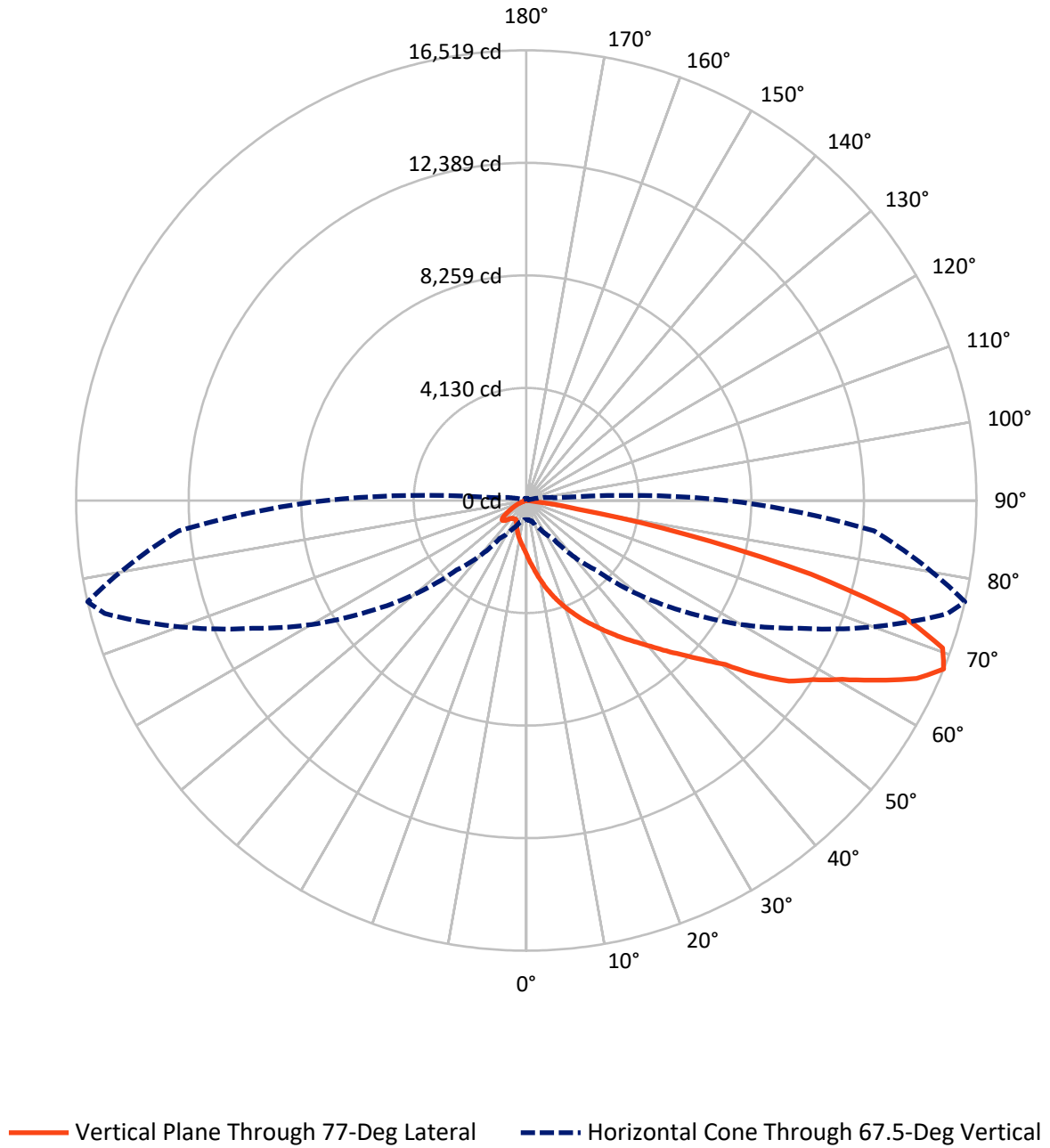
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	1267.6	0.0	1267.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	15962.4	0.0	15962.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	17230.0	0.0	17230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	1.2
10°-20°	710.2	4.1
20°-30°	1370.4	8.0
30°-40°	2379.1	13.8
40°-50°	3454.3	20.0
50°-60°	3966.9	23.0
60°-70°	3444.0	20.0
70°-80°	1622.1	9.4
80°-90°	80.2	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°	17230.0	100.0
0°-180°	17230.0	100.0

Coefficient of Utilization



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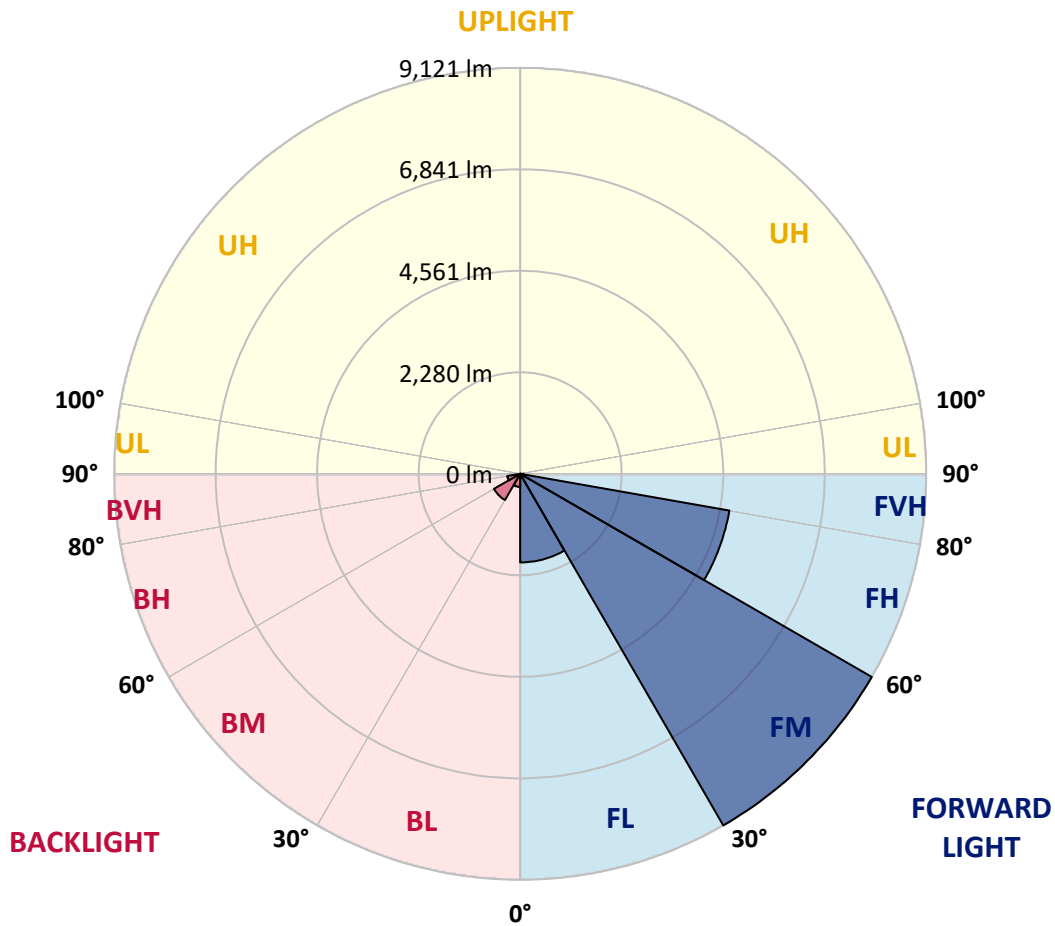
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1989.9	11.5			
FM (30°-60°)	9121.1	52.9			
FH (60°-80°)	4772.7	27.7			G2/5000
FVH (80°-90°)	78.7	0.5			G1/100
BL (0°-30°)	293.5	1.7	B1/500		
BM (30°-60°)	679.2	3.9	B1/1000		
BH (60°-80°)	293.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.5	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°	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9
2.5°	2750.8	2767.9	2743.3	2696.2	2625.6	2579.6	2467.3	2361.4	2243.7	2206.2
5°	3353.2	3368.2	3340.3	3289.0	3194.8	3105.0	2957.3	2735.8	2505.8	2432.0
7.5°	3799.3	3807.9	3797.2	3750.1	3660.3	3558.6	3393.8	3131.7	2790.4	2709.1
10°	4120.3	4148.1	4144.9	4126.7	4066.8	3984.4	3809.0	3510.5	3109.2	3004.4
12.5°	4333.2	4364.3	4382.5	4423.1	4419.9	4367.5	4213.4	3897.8	3427.0	3304.0
15°	4395.3	4428.5	4498.0	4592.2	4675.6	4702.4	4594.3	4277.6	3776.9	3619.6
17.5°	4360.0	4411.3	4494.8	4643.5	4826.5	4947.4	4935.6	4644.6	4094.6	3914.9
20°	4438.1	4487.3	4552.6	4677.8	4890.7	5110.0	5197.8	4995.5	4410.3	4222.0
22.5°	4870.4	4861.8	4868.2	4888.5	5015.9	5233.1	5413.9	5314.4	4722.7	4530.1
25°	5555.1	5516.6	5451.3	5341.1	5309.0	5413.9	5602.2	5596.8	5052.2	4845.7
27.5°	6340.4	6334.0	6181.0	5915.7	5765.9	5725.2	5815.1	5871.8	5378.6	5158.2
30°	7092.6	7109.7	6903.2	6607.9	6333.0	6173.5	6092.2	6132.9	5710.3	5495.2
32.5°	7747.4	7765.6	7540.9	7195.3	6855.1	6662.5	6491.3	6390.7	6071.9	5837.6
35°	8300.6	8318.8	8060.9	7678.9	7316.2	7141.8	6948.2	6673.2	6435.7	6217.4
37.5°	8794.9	8789.5	8443.9	8058.8	7702.5	7564.5	7462.8	7020.9	6810.1	6599.4
40°	9087.0	9109.4	8814.1	8389.4	8043.8	7943.2	7936.8	7452.1	7242.4	7038.0
42.5°	9172.6	9212.2	8998.2	8649.4	8335.9	8226.7	8394.7	7918.6	7745.3	7546.3
45°	9018.5	9057.0	8959.6	8717.8	8534.9	8464.3	8788.5	8402.2	8282.4	8085.5
47.5°	8569.1	8617.3	8640.8	8589.5	8587.3	8659.0	9141.5	8911.5	8920.1	8718.9
50°	7699.3	7780.6	7996.7	8178.6	8460.0	8813.1	9485.0	9463.6	9639.1	9465.7
52.5°	6117.9	6233.5	6978.1	7475.6	8108.0	8784.2	9862.7	10349.5	10900.5	10646.9
55°	4916.4	4916.4	5521.9	6452.8	7421.1	8593.7	10027.4	10925.1	11759.7	11699.8
57.5°	4008.0	4056.1	4442.4	5265.2	6427.1	8140.1	10129.1	11286.8	12451.9	12408.1
60°	2473.7	2577.5	3307.2	4119.3	5296.2	7332.3	10064.9	11652.7	13291.8	13327.1
62.5°	1393.1	1431.6	1756.8	2963.7	4118.2	6246.3	9573.8	11857.0	14366.0	14515.8
65°	961.9	981.1	1106.3	1844.6	2854.6	4973.1	8614.1	11729.7	15442.4	15745.2
67.5°	698.7	708.3	786.4	1126.6	1693.7	3605.7	7109.7	11087.8	16012.7	16518.8
70°	537.1	543.5	600.2	740.4	1000.4	2225.5	5163.5	9811.3	15599.7	16204.2
72.5°	436.5	443.0	486.8	547.8	663.4	1316.0	3129.6	7967.8	13776.5	14429.2
75°	368.1	376.6	416.2	455.8	520.0	845.2	1468.0	5548.7	10360.2	10788.2
77.5°	204.4	188.3	338.1	377.7	438.7	535.0	686.9	3265.4	5802.3	5921.0
80°	127.3	131.6	268.6	303.9	337.0	269.6	314.6	1257.2	2011.5	1910.9
82.5°	7.5	17.1	206.5	219.3	231.1	115.6	118.8	426.9	484.7	445.1
85°	0.0	0.0	94.2	76.0	80.2	33.2	34.2	99.5	65.3	70.6
87.5°	0.0	0.0	0.0	2.1	0.0	3.2	6.4	8.6	3.2	4.3
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°
1986.9	0°	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9	1986.9
2088.5	2.5°	2013.6	1938.7	1786.8	1638.1	1517.2	1404.8	1324.6	1248.6	1210.1	1208.0
2223.3	5°	2074.6	1917.3	1613.5	1344.9	1128.8	955.5	843.1	762.9	722.2	708.3
2389.2	7.5°	2160.2	1923.7	1461.5	1088.1	833.5	684.8	620.6	594.9	586.3	576.7
2576.4	10°	2268.3	1938.7	1325.7	876.3	656.9	582.0	556.4	545.7	539.2	532.8
2787.2	12.5°	2389.2	1952.6	1190.8	727.6	577.8	539.2	521.1	508.2	499.7	492.2
3003.3	15°	2506.9	1961.2	1050.7	623.8	537.1	506.1	486.8	472.9	461.1	452.6
3215.2	17.5°	2623.5	1973.0	919.1	561.7	503.9	472.9	453.7	436.5	426.9	417.3
3437.7	20°	2752.9	1970.8	795.0	517.8	470.8	439.7	419.4	403.4	393.7	383.0
3673.1	22.5°	2872.8	1960.1	685.8	480.4	436.5	406.6	384.1	368.1	358.4	349.9
3913.8	25°	3010.8	1951.6	594.9	446.2	404.4	374.5	349.9	334.9	324.2	316.7
4155.6	27.5°	3143.5	1938.7	528.5	415.1	373.4	344.5	321.0	303.9	294.2	288.9
4404.9	30°	3274.0	1935.5	503.9	385.2	345.6	316.7	293.2	277.1	269.6	267.5
4678.8	32.5°	3431.3	1944.1	514.6	374.5	319.9	291.0	268.6	256.8	249.3	249.3
4983.8	35°	3599.3	1941.9	530.7	384.1	302.8	265.3	248.2	240.7	233.2	233.2
5321.9	37.5°	3810.0	1945.1	543.5	400.2	296.4	243.9	234.3	224.7	220.4	220.4
5692.1	40°	4124.6	2051.1	537.1	414.1	294.2	229.0	209.7	206.5	203.3	203.3
6110.4	42.5°	4509.8	2281.1	545.7	415.1	293.2	218.3	192.6	199.0	191.5	190.4
6582.2	45°	4931.3	2532.5	600.2	392.7	292.1	212.9	184.0	191.5	179.7	179.7
7129.0	47.5°	5349.7	2781.8	655.9	360.6	288.9	211.8	176.5	172.3	169.0	170.1
7841.6	50°	5926.4	2985.1	677.3	316.7	281.4	209.7	162.6	163.7	161.6	163.7
8846.2	52.5°	6554.4	3027.9	651.6	267.5	260.0	203.3	153.0	157.3	156.2	158.4
9553.5	55°	6946.0	2981.9	538.2	222.5	226.8	177.6	143.4	151.9	151.9	151.9
10244.6	57.5°	7350.5	2786.1	382.0	180.8	188.3	145.5	134.8	146.6	145.5	144.4
11077.1	60°	7641.5	2469.4	251.4	148.7	149.8	119.8	125.2	138.0	137.0	131.6
11935.1	62.5°	7858.7	2119.5	161.6	126.3	114.5	108.1	114.5	125.2	120.9	109.1
12662.7	65°	7834.1	1634.9	124.1	108.1	94.2	94.2	99.5	109.1	96.3	77.0
12801.8	67.5°	7377.2	1106.3	102.7	90.9	79.2	78.1	82.4	90.9	82.4	65.3
12089.2	70°	6560.9	723.3	82.4	70.6	63.1	57.8	66.3	78.1	69.5	52.4
10291.7	72.5°	5325.1	440.8	62.1	51.4	46.0	37.4	52.4	64.2	55.6	38.5
7156.8	75°	3445.2	224.7	42.8	33.2	24.6	22.5	38.5	48.1	38.5	23.5
3175.6	77.5°	1318.2	94.2	23.5	15.0	12.8	10.7	21.4	28.9	16.0	5.3
615.2	80°	253.6	39.6	11.8	7.5	6.4	4.3	3.2	2.1	0.0	0.0
109.1	82.5°	43.9	12.8	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
21.4	85°	15.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5	87.5°	5.3	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

<u>180°</u>
1986.9
1205.8
706.2
574.6
530.7
490.0
451.5
416.2
382.0
348.8
315.6
288.9
266.4
249.3
233.2
220.4
203.3
189.4
179.7
170.1
163.7
158.4
151.9
144.4
131.6
107.0
74.9
63.1
50.3
36.4
20.3
4.3
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