

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: P942144

Luminaire Tested: **GALN-SB6A-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

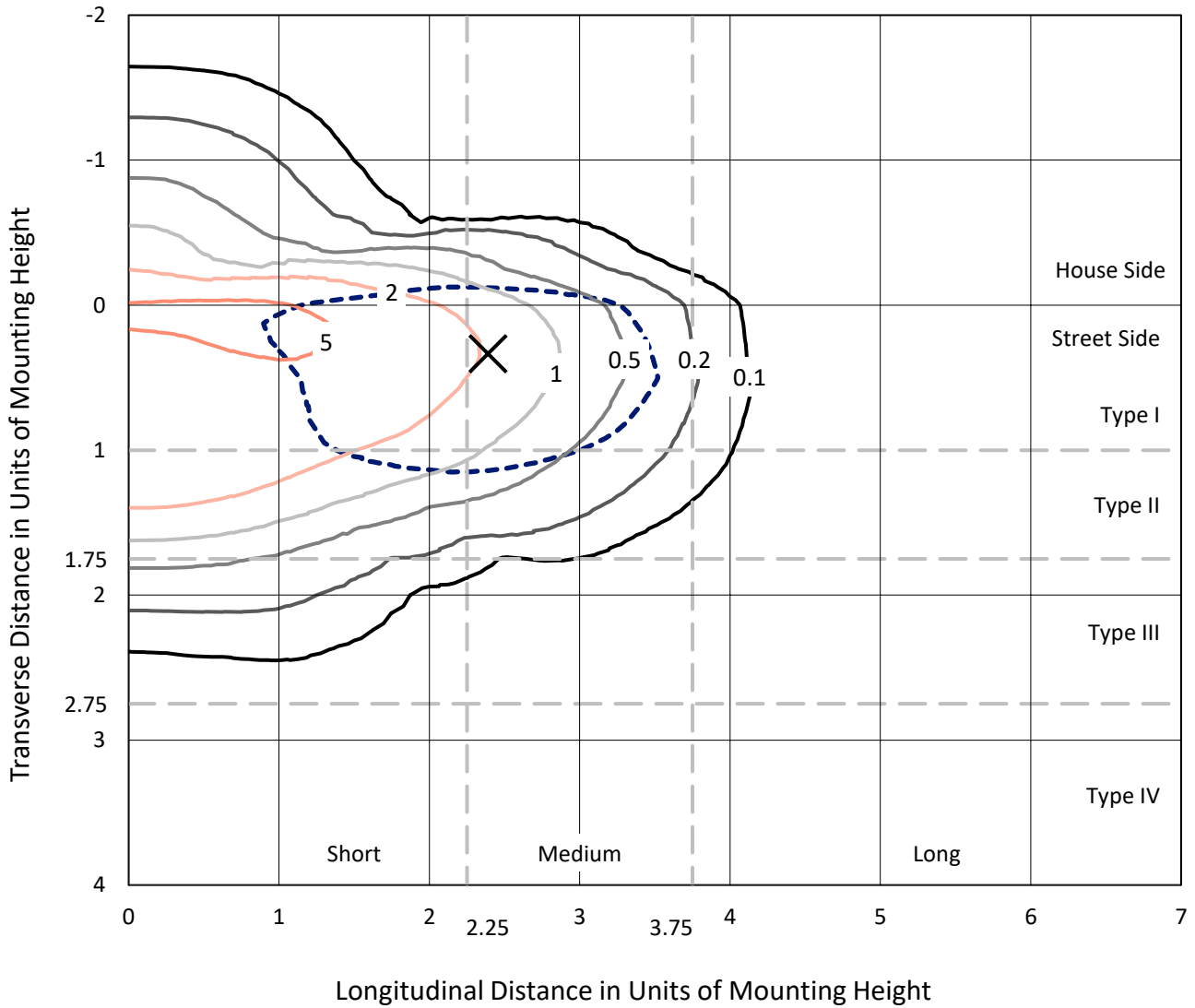
Lumens per Lamp: N/A  
Luminaire Lumens: 19864 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

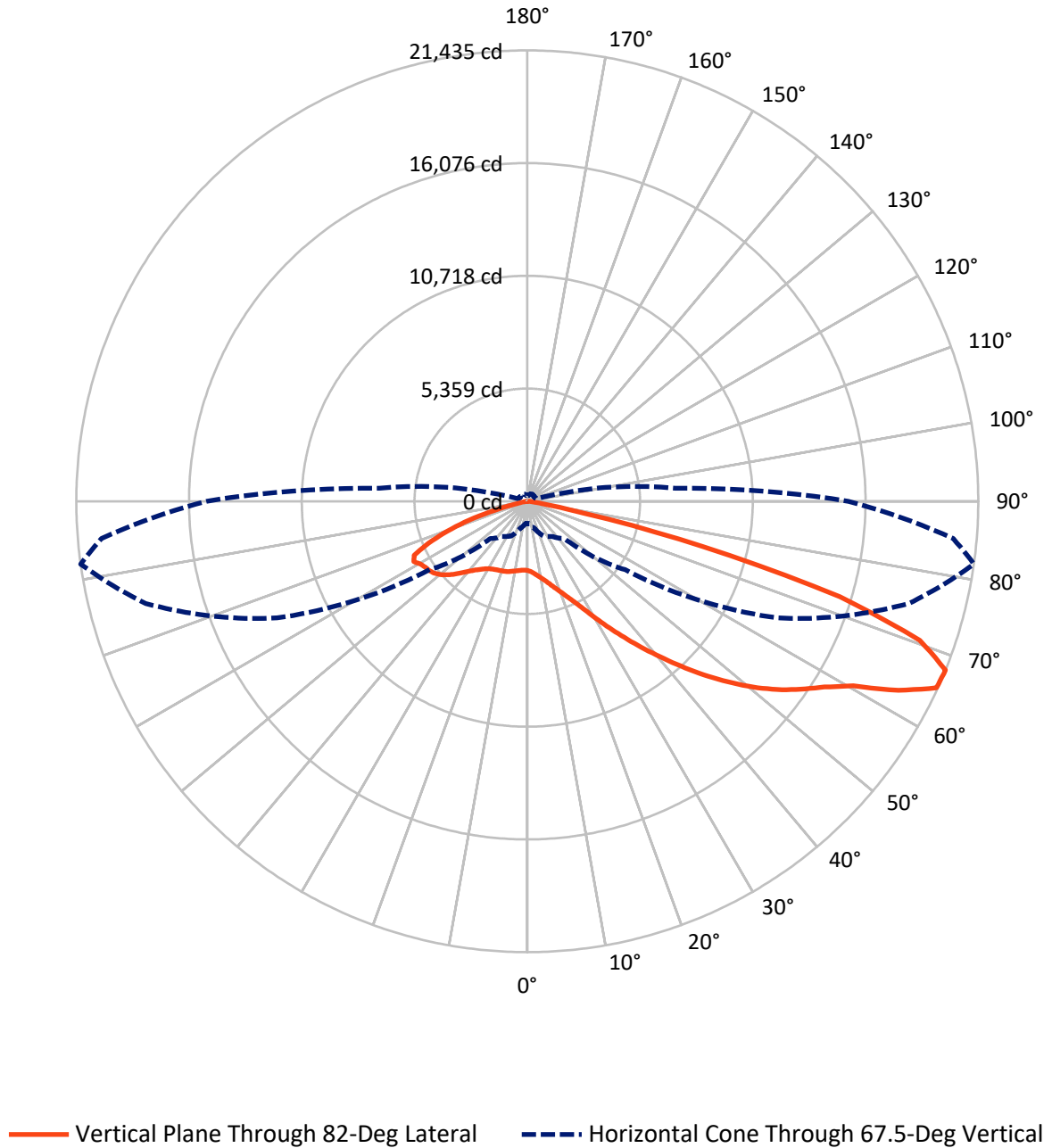
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3598.2	0.0	3598.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16265.8	0.0	16265.8
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	19864.0	0.0	19864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.2	1.5
10°-20°	761.9	3.8
20°-30°	1220.3	6.1
30°-40°	2157.8	10.9
40°-50°	3780.7	19.0
50°-60°	5042.4	25.4
60°-70°	4694.2	23.6
70°-80°	1801.6	9.1
80°-90°	111.9	0.6
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°	19864.0	100.0
0°-180°	19864.0	100.0

**Coefficient of Utilization**



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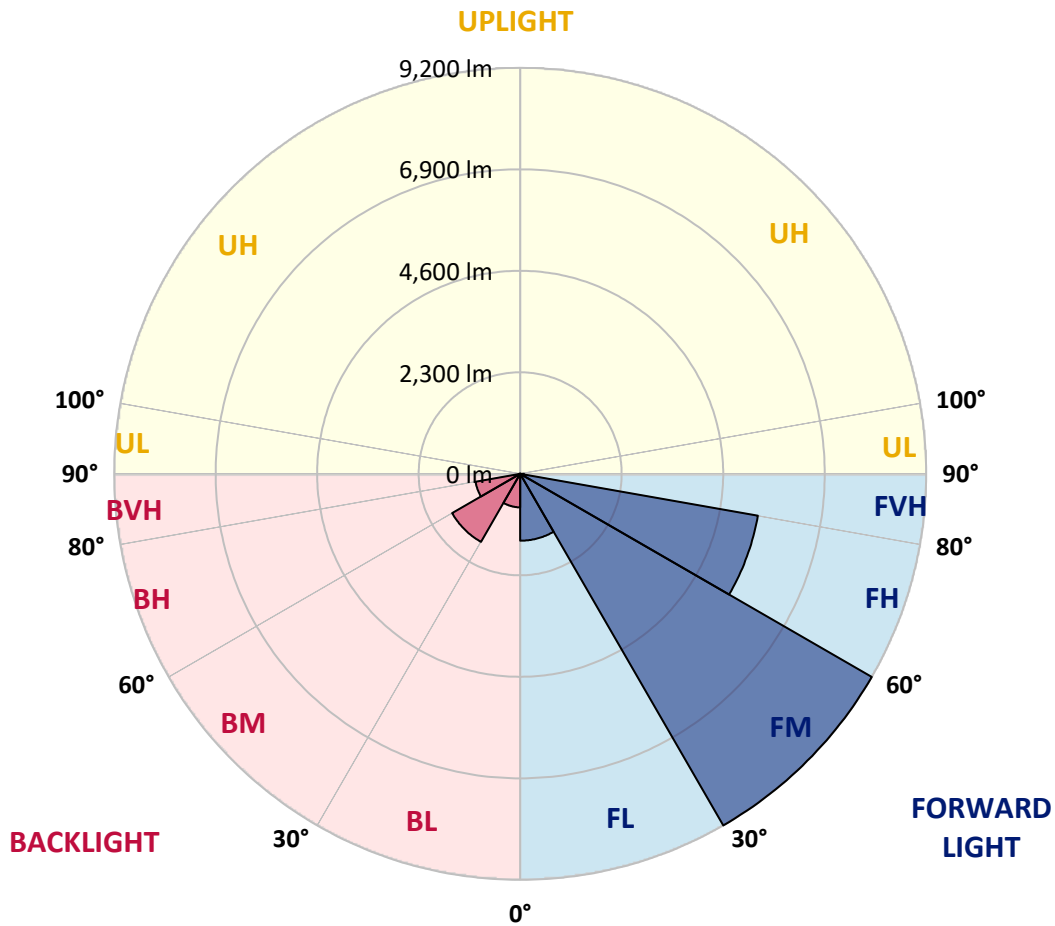
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.4	7.6			
FM (30°-60°)	9200.2	46.3			
FH (60°-80°)	5468.9	27.5			G3/7500
FVH (80°-90°)	81.4	0.4			G1/100
BL (0°-30°)	759.9	3.8	B2/1000		
BM (30°-60°)	1780.7	9.0	B2/2500		
BH (60°-80°)	1027.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8
2.5°	3478.1	3498.2	3486.7	3481.0	3471.0	3456.7	3445.2	3409.5	3372.3	3348.0
5°	3548.2	3568.2	3566.8	3572.5	3579.7	3584.0	3581.1	3541.1	3488.2	3446.7
7.5°	3488.2	3511.0	3529.6	3558.2	3608.3	3661.2	3686.9	3678.4	3624.0	3566.8
10°	3318.0	3342.3	3386.6	3453.8	3559.7	3674.1	3769.9	3814.2	3779.9	3717.0
12.5°	3006.2	3030.5	3117.7	3263.6	3441.0	3639.8	3822.8	3941.5	3950.1	3887.2
15°	2655.8	2680.1	2773.1	2956.1	3226.4	3545.4	3851.4	4075.9	4151.7	4097.4
17.5°	2438.4	2459.9	2529.9	2677.3	2959.0	3356.6	3841.4	4219.0	4392.0	4349.1
20°	2372.6	2391.2	2424.1	2527.1	2761.6	3160.6	3775.6	4353.4	4650.9	4626.6
22.5°	2442.7	2459.9	2469.9	2515.6	2663.0	3031.9	3692.7	4490.7	4951.2	4954.1
25°	2604.3	2621.5	2610.0	2638.6	2703.0	2991.9	3661.2	4652.3	5328.8	5360.2
27.5°	2870.3	2871.8	2844.6	2843.2	2853.2	3052.0	3694.1	4825.4	5805.0	5863.6
30°	3403.8	3382.3	3277.9	3164.9	3113.5	3232.2	3785.6	5029.9	6367.1	6471.5
32.5°	4226.1	4194.7	4003.0	3732.7	3461.0	3522.5	3950.1	5263.0	6979.2	7167.9
35°	5118.5	5110.0	4909.7	4507.9	4033.0	3935.8	4217.5	5569.0	7647.1	7947.4
37.5°	5948.0	5943.7	5829.3	5355.9	4778.2	4512.1	4646.6	5969.5	8362.1	8796.9
40°	6706.0	6718.9	6604.5	6181.1	5599.1	5251.5	5230.1	6464.3	9157.3	9722.2
42.5°	7361.0	7375.3	7259.5	6946.3	6410.0	6069.6	5946.6	7070.7	9933.9	10716.2
45°	7805.8	7894.5	7877.3	7627.0	7242.3	6889.1	6807.6	7831.5	10819.1	11770.2
47.5°	7931.7	8013.2	8141.9	8176.2	7941.7	7594.1	7691.4	8748.3	11714.4	12825.7
50°	7621.3	7697.1	7964.5	8320.7	8483.7	8376.4	8550.9	9730.8	12631.2	13878.2
52.5°	7009.2	7086.4	7423.9	7987.4	8652.5	8990.0	9413.3	10699.0	13519.3	14875.1
55°	6123.9	6205.5	6638.8	7276.6	8330.7	9243.1	10132.7	11665.8	14333.0	15771.8
57.5°	4919.7	4979.8	5430.3	6322.7	7521.2	8991.4	10663.3	12721.3	15099.6	16652.8
60°	3206.4	3259.3	3782.8	4778.2	6179.7	8150.5	10769.1	13898.3	16117.9	17798.3
62.5°	2132.4	2168.1	2478.5	3209.3	4352.0	6535.8	10149.8	14837.9	17611.0	19792.0
65°	1463.1	1498.8	1809.1	2318.3	2811.7	4323.4	8369.3	14713.5	18963.9	21375.1
67.5°	1044.0	1074.0	1337.2	1817.7	2035.1	2511.4	5673.4	13123.1	18769.4	21435.2
70°	748.0	765.1	982.5	1415.9	1617.5	1508.8	3154.9	10036.8	16433.9	19793.4
72.5°	523.4	529.2	682.2	1078.3	1302.9	1101.2	1501.7	6691.7	12429.5	15535.8
75°	354.7	361.8	459.1	790.9	1045.4	840.9	795.2	3588.3	7296.7	8599.5
77.5°	217.4	220.2	296.0	540.6	782.3	640.7	512.0	1520.3	2823.1	2771.6
80°	123.0	123.0	188.8	336.1	533.4	413.3	359.0	646.4	893.8	785.2
82.5°	68.6	70.1	137.3	208.8	353.2	244.6	197.4	298.9	386.1	341.8
85°	28.6	31.5	84.4	98.7	168.8	121.6	80.1	125.9	143.0	127.3
87.5°	2.9	4.3	25.7	18.6	20.0	24.3	11.4	24.3	20.0	20.0
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°
3290.8	0°	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8	3290.8
3339.4	2.5°	3312.2	3290.8	3236.4	3173.5	3090.6	3050.5	2996.2	2959.0	2927.5	2930.4
3422.4	5°	3376.6	3322.3	3200.7	3049.1	2860.3	2725.9	2582.9	2484.2	2404.1	2386.9
3536.8	7.5°	3465.3	3379.5	3166.4	2893.2	2574.3	2332.6	2116.6	1977.9	1879.2	1847.8
3675.5	10°	3579.7	3455.3	3122.0	2697.3	2238.2	1930.7	1699.0	1590.3	1523.1	1500.2
3838.5	12.5°	3712.7	3542.5	3063.4	2458.4	1892.1	1596.1	1448.7	1394.4	1373.0	1365.8
4038.8	15°	3880.0	3651.2	2974.7	2175.3	1598.9	1391.5	1328.6	1321.5	1324.3	1321.5
4279.0	17.5°	4078.8	3769.9	2830.3	1883.5	1401.6	1287.1	1264.3	1270.0	1277.1	1275.7
4547.9	20°	4296.2	3887.2	2645.8	1624.7	1267.1	1212.8	1199.9	1205.6	1211.3	1208.5
4858.2	22.5°	4543.6	4013.0	2441.3	1423.0	1177.0	1144.1	1129.8	1131.3	1131.3	1125.5
5251.5	25°	4839.7	4151.7	2226.8	1280.0	1108.4	1082.6	1065.5	1059.7	1051.2	1034.0
5729.2	27.5°	5192.9	4299.1	2020.8	1179.9	1054.0	1029.7	1009.7	995.4	973.9	945.3
6302.7	30°	5590.5	4477.8	1846.3	1117.0	1011.1	986.8	963.9	942.5	911.0	875.3
6962.0	32.5°	6058.1	4669.5	1719.0	1075.5	972.5	946.8	919.6	893.8	859.5	823.8
7702.8	35°	6615.9	4901.2	1644.7	1046.9	942.5	908.2	878.1	849.5	823.8	792.3
8508.0	37.5°	7220.9	5147.1	1621.8	1032.6	922.5	869.5	835.2	815.2	812.3	793.7
9379.0	40°	7883.0	5438.9	1639.0	1024.0	901.0	832.4	795.2	790.9	798.0	765.1
10310.0	42.5°	8583.8	5785.0	1667.6	1014.0	871.0	795.2	759.4	759.4	753.7	707.9
11294.0	45°	9341.8	6184.0	1696.2	989.7	835.2	758.0	730.8	720.8	696.5	652.2
12283.6	47.5°	10105.5	6590.2	1717.6	945.3	792.3	726.5	702.2	679.3	643.6	603.5
13254.7	50°	10830.6	6954.9	1694.7	879.5	743.7	696.5	670.7	639.3	600.7	573.5
14174.3	52.5°	11478.4	7270.9	1597.5	802.3	692.2	665.0	642.1	609.2	577.8	549.2
15003.8	55°	12041.9	7526.9	1425.9	729.4	646.4	637.9	615.0	573.5	530.6	506.3
15826.1	57.5°	12582.5	7721.4	1211.3	669.3	605.0	607.8	573.5	536.3	496.3	470.5
16934.5	60°	13301.9	7981.7	994.0	613.5	560.6	569.2	532.0	504.8	454.8	421.9
18835.2	62.5°	14451.7	8386.4	789.4	544.9	509.1	512.0	496.3	463.4	403.3	364.7
20243.9	65°	15364.2	8237.7	622.1	470.5	450.5	454.8	454.8	419.0	354.7	310.3
20319.7	67.5°	15261.2	7053.5	496.3	397.6	394.7	397.6	407.6	377.6	314.6	278.9
18772.2	70°	14058.4	5610.5	397.6	330.4	343.2	336.1	364.7	344.7	283.2	247.4
14553.3	72.5°	11471.3	4041.6	303.2	273.2	263.1	274.6	328.9	310.3	236.0	195.9
7708.5	75°	6703.1	2156.7	226.0	216.0	190.2	228.8	291.8	264.6	180.2	144.4
2362.6	77.5°	2182.4	752.3	165.9	158.7	141.6	184.5	248.8	223.1	147.3	114.4
692.2	80°	584.9	227.4	113.0	104.4	91.5	137.3	197.4	177.3	105.8	74.4
297.5	82.5°	234.5	95.8	65.8	58.6	50.1	94.4	155.9	143.0	78.7	47.2
93.0	85°	75.8	31.5	24.3	18.6	22.9	58.6	93.0	97.3	55.8	24.3
14.3	87.5°	10.0	4.3	4.3	5.7	4.3	10.0	28.6	27.2	15.7	2.9
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>
3290.8
2901.8
2348.3
1816.3
1483.1
1361.5
1320.0
1272.8
1207.1
1122.7
1031.1
942.5
872.4
825.2
789.4
792.3
766.6
707.9
650.7
602.1
569.2
546.3
503.4
467.7
417.6
361.8
306.1
273.2
243.1
191.6
140.2
110.1
72.9
47.2
18.6
0.0
0.0

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