

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: P951334

Luminaire Tested: **GALN-SB5C-735-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-735-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

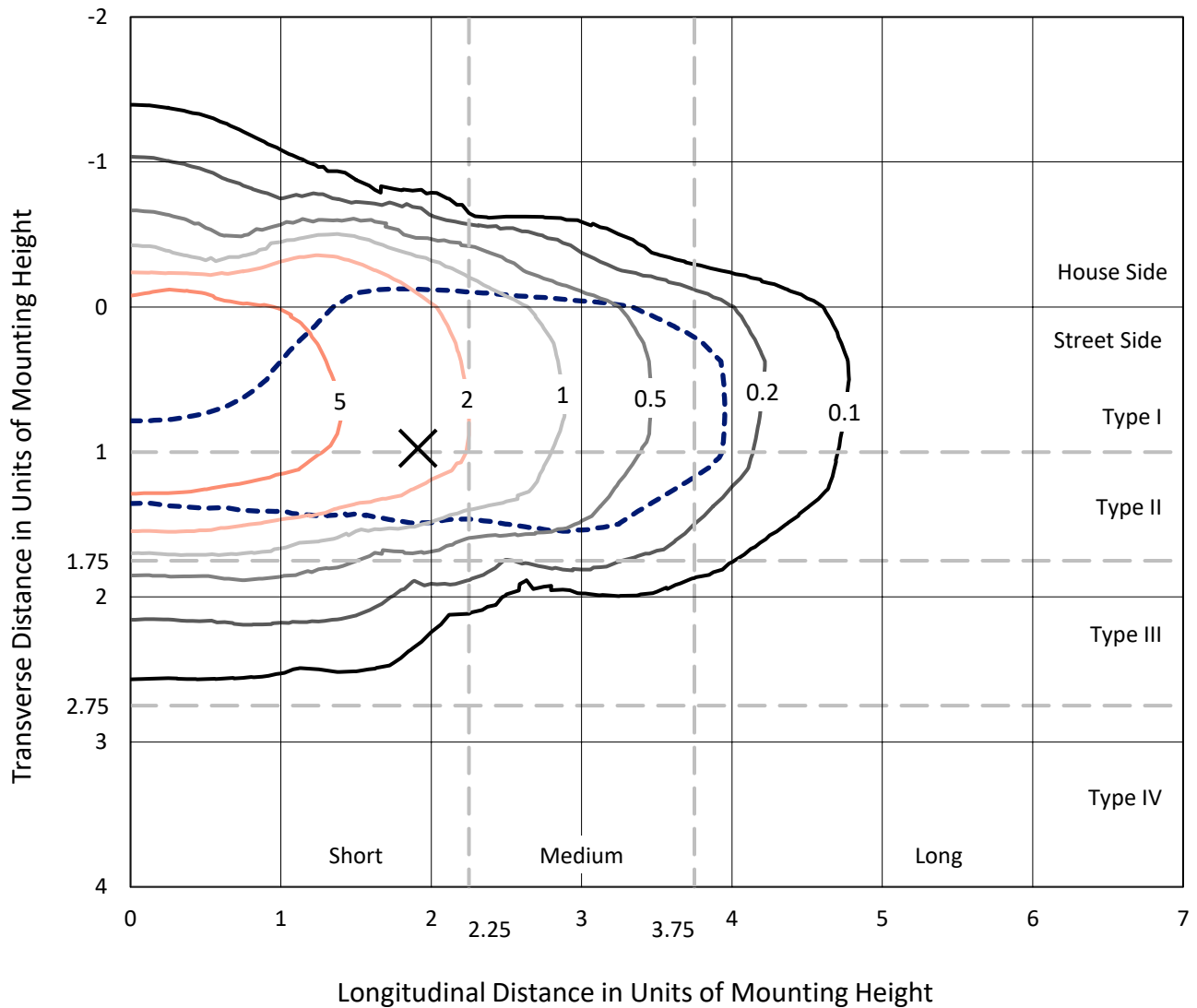
Lumens per Lamp: N/A  
Luminaire Lumens: 28912 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

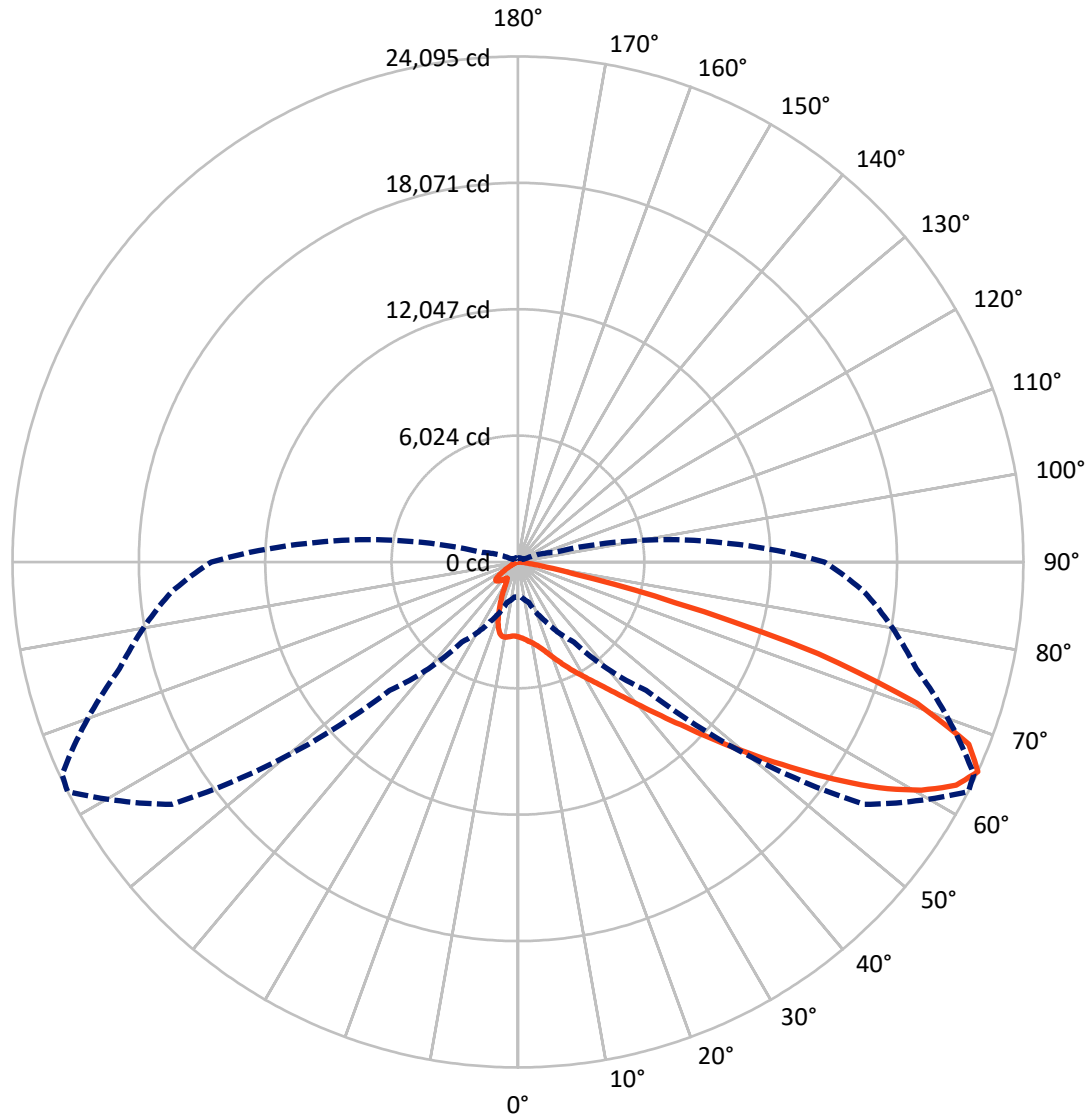
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4249.8	0.0	4249.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	24662.2	0.0	24662.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	28912.0	0.0	28912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.2	1.2
10°-20°	932.8	3.2
20°-30°	1624.3	5.6
30°-40°	2927.6	10.1
40°-50°	5806.4	20.1
50°-60°	7909.3	27.4
60°-70°	6313.1	21.8
70°-80°	2856.8	9.9
80°-90°	205.3	0.7
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°	28912.0	100.0
0°-180°	28912.0	100.0

**Coefficient of Utilization**



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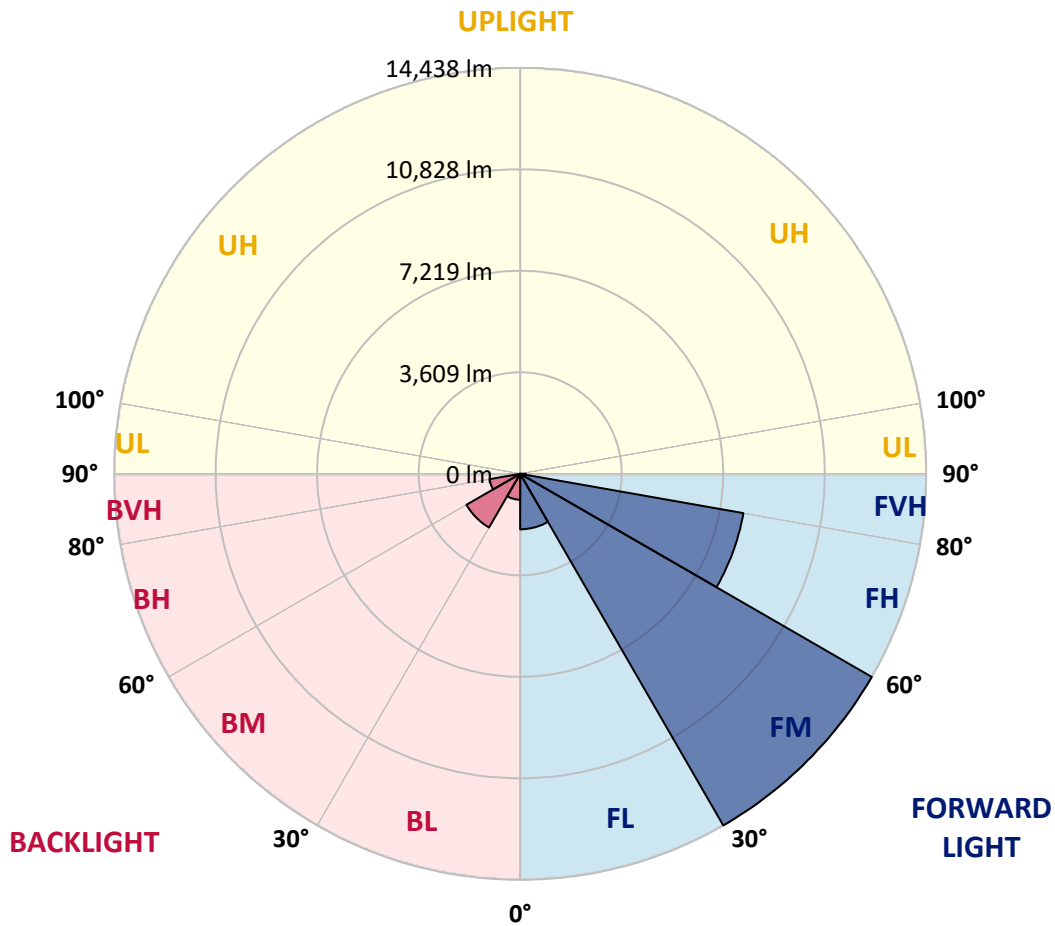
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.6	6.8			
FM (30°-60°)	14437.9	49.9			
FH (60°-80°)	8060.5	27.9			G4/12000
FVH (80°-90°)	190.1	0.7			G2/225
BL (0°-30°)	919.7	3.2	B2/1000		
BM (30°-60°)	2205.4	7.6	B2/2500		
BH (60°-80°)	1109.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3
2.5°	3651.8	3641.9	3655.8	3649.8	3645.9	3637.9	3633.9	3629.9	3622.0	3616.0
5°	3661.8	3655.8	3669.7	3681.7	3693.6	3705.5	3711.5	3719.5	3711.5	3695.6
7.5°	3578.2	3574.3	3604.1	3639.9	3693.6	3739.3	3789.1	3816.9	3818.9	3812.9
10°	3572.3	3562.3	3592.2	3635.9	3705.5	3787.1	3874.6	3934.3	3942.2	3968.1
12.5°	3665.7	3655.8	3697.6	3745.3	3816.9	3902.4	4009.8	4093.4	4105.3	4141.1
15°	3822.9	3809.0	3856.7	3918.4	4009.8	4107.3	4220.7	4296.3	4306.2	4350.0
17.5°	4005.9	3991.9	4047.6	4113.3	4212.7	4346.0	4477.3	4560.8	4572.7	4600.6
20°	4240.6	4222.7	4266.4	4326.1	4431.5	4590.6	4747.8	4867.1	4865.1	4865.1
22.5°	4513.1	4485.2	4523.0	4570.7	4670.2	4863.1	5072.0	5213.2	5213.2	5157.5
25°	4805.5	4777.6	4819.4	4863.1	4950.7	5169.4	5414.1	5589.1	5597.1	5501.6
27.5°	5171.4	5135.6	5167.5	5219.2	5270.9	5493.7	5784.0	5986.9	5990.9	5843.7
30°	5875.5	5774.1	5674.7	5619.0	5642.8	5863.6	6173.9	6398.7	6418.5	6215.7
32.5°	7164.4	7144.5	6794.5	6337.0	6098.3	6261.4	6609.5	6880.0	6891.9	6631.4
35°	9167.4	9143.5	8580.6	7709.4	6931.7	6794.5	7138.6	7458.8	7450.8	7156.5
37.5°	11558.1	11536.3	10794.4	9628.8	8369.8	7600.0	7820.8	8156.9	8206.7	7820.8
40°	13600.9	13519.3	13049.9	11926.1	10279.2	8936.6	8791.4	9014.2	9065.9	8608.4
42.5°	15148.3	15078.7	14840.0	14137.9	12590.4	10913.7	9935.1	10020.6	10078.3	9529.4
45°	15949.9	15934.0	16029.4	15963.8	14945.4	13340.3	11570.1	11214.0	11235.9	10549.7
47.5°	16063.3	16055.3	16490.9	17107.5	16970.2	16077.2	13668.5	12701.8	12624.3	11701.4
50°	15395.0	15379.0	16214.4	17370.0	18322.8	18376.5	16051.3	14378.6	14207.5	12892.8
52.5°	13260.7	13256.8	14629.2	16552.6	18798.2	20389.4	18406.3	16220.4	15934.0	14153.8
55°	10203.6	10277.2	11850.5	14124.0	17930.9	21358.0	20520.6	18265.1	17825.5	15422.8
57.5°	7228.1	7335.5	8890.9	10915.7	15241.8	20785.2	21950.7	20313.8	19840.4	16687.8
60°	3882.6	3978.0	5535.4	7952.1	11339.4	18649.0	22704.6	22092.0	21644.4	17889.2
62.5°	2313.2	2345.0	2989.5	5133.6	7669.6	14247.3	22384.3	23446.5	23078.5	18897.6
65°	1660.8	1666.8	1991.0	3134.7	4656.3	8656.2	20138.7	24094.9	23981.5	19657.4
67.5°	1398.3	1394.3	1529.6	2082.5	3172.5	4336.0	15434.7	23178.0	23659.3	20138.7
70°	1199.4	1205.3	1364.5	1525.6	2384.8	2454.4	7673.6	20180.5	21206.8	20266.0
72.5°	893.1	913.0	1060.1	1390.3	1800.1	1688.7	2649.4	14963.3	16819.1	19094.5
75°	630.5	640.5	745.9	1169.5	1342.6	1229.2	1352.5	7735.3	10114.1	14639.1
77.5°	485.3	503.2	564.9	817.5	1322.7	863.2	827.4	2677.2	4113.3	8843.1
80°	262.5	294.4	407.7	590.7	928.9	610.6	409.7	1066.1	1394.3	4135.2
82.5°	135.3	151.2	284.4	425.6	529.1	533.1	202.9	443.5	574.8	1276.9
85°	53.7	65.6	190.9	234.7	272.5	262.5	91.5	179.0	206.9	354.0
87.5°	11.9	19.9	69.6	53.7	51.7	55.7	21.9	41.8	39.8	41.8
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°
3568.3	0°	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3	3568.3
3592.2	2.5°	3590.2	3582.2	3560.3	3536.5	3508.6	3492.7	3482.8	3480.8	3466.8	3456.9
3671.7	5°	3649.8	3641.9	3600.1	3550.4	3496.7	3454.9	3415.1	3379.3	3327.6	3317.7
3787.1	7.5°	3769.2	3747.3	3679.7	3612.0	3510.6	3389.3	3242.1	3073.0	2921.9	2876.1
3940.2	10°	3916.4	3886.5	3801.0	3681.7	3456.9	3126.7	2770.7	2440.5	2178.0	2104.4
4121.2	12.5°	4083.4	4057.6	3944.2	3723.4	3232.1	2633.5	2088.5	1678.7	1424.1	1360.5
4314.2	15°	4282.3	4244.6	4087.4	3659.8	2830.4	2000.9	1434.1	1191.4	1099.9	1088.0
4534.9	17.5°	4493.2	4431.5	4214.7	3431.0	2289.4	1422.1	1107.9	1038.3	998.5	986.5
4757.7	20°	4686.1	4606.6	4290.3	3085.0	1710.6	1107.9	992.5	946.8	911.0	897.0
4980.5	22.5°	4879.0	4765.7	4290.3	2613.6	1282.9	982.6	911.0	869.2	827.4	809.5
5219.2	25°	5079.9	4928.8	4214.7	2088.5	1032.3	901.0	833.4	787.6	751.8	730.0
5445.9	27.5°	5274.9	5066.0	4041.7	1591.2	918.9	829.4	761.8	718.0	684.2	668.3
5692.6	30°	5459.8	5201.3	3799.0	1207.3	845.3	759.8	696.2	658.4	624.5	608.6
6012.8	32.5°	5710.5	5372.3	3540.4	990.5	781.7	694.2	636.5	600.7	570.8	558.9
6428.5	35°	6058.5	5624.9	3317.7	972.6	728.0	640.5	582.8	549.0	519.1	509.2
6965.5	37.5°	6551.8	6032.7	3200.3	1092.0	684.2	592.7	539.0	503.2	475.4	467.4
7647.8	40°	7160.4	6585.6	3264.0	1211.3	654.4	551.0	499.2	463.4	439.6	429.6
8431.4	42.5°	7882.5	7267.8	3616.0	1302.8	634.5	515.2	461.5	421.7	405.8	401.8
9320.5	45°	8711.9	8017.7	4155.0	1400.3	602.7	481.3	423.7	393.8	381.9	379.9
10287.2	47.5°	9654.7	8841.2	4779.6	1521.6	570.8	449.5	393.8	373.9	364.0	360.0
11295.6	50°	10589.5	9670.6	5422.0	1589.2	545.0	419.7	370.0	354.0	346.1	344.1
12361.7	52.5°	11568.1	10523.9	5941.2	1525.6	523.1	395.8	350.1	338.1	330.2	328.2
13344.3	55°	12500.9	11214.0	6030.7	1294.8	479.4	371.9	328.2	322.2	312.3	312.3
14340.8	57.5°	13304.5	11560.1	5398.2	950.7	435.6	336.1	306.3	300.3	292.4	290.4
15239.8	60°	14042.4	11460.7	4167.0	640.5	387.9	300.3	278.5	274.5	266.5	256.6
16021.5	62.5°	14458.1	11023.1	2850.3	417.7	340.1	262.5	246.6	244.6	226.7	206.9
16600.3	65°	14615.3	10124.1	1778.2	304.3	284.4	224.8	212.8	208.8	183.0	161.1
16928.5	67.5°	14478.0	8644.2	897.0	240.7	224.8	187.0	175.0	175.0	157.1	137.2
16908.6	70°	13929.0	6480.2	377.9	192.9	173.0	143.2	143.2	151.2	133.3	111.4
16031.4	72.5°	12737.6	4359.9	200.9	147.2	129.3	101.4	117.4	123.3	105.4	83.5
13121.5	75°	10126.1	2659.3	139.2	109.4	81.5	71.6	89.5	93.5	71.6	55.7
8996.3	77.5°	6925.7	1527.6	93.5	69.6	51.7	41.8	61.7	57.7	37.8	25.9
3468.8	80°	3041.2	636.5	53.7	31.8	19.9	15.9	21.9	15.9	11.9	8.0
475.4	82.5°	356.0	149.2	19.9	11.9	8.0	4.0	2.0	0.0	0.0	0.0
145.2	85°	73.6	17.9	9.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0
25.9	87.5°	13.9	4.0	2.0	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°
3568.3
3466.8
3313.7
2854.2
2076.5
1342.6
1076.1
980.6
889.1
799.6
722.0
668.3
610.6
558.9
509.2
465.4
427.6
401.8
377.9
360.0
344.1
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