

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: P939256

Luminaire Tested: **GALN-SB1D-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7983 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

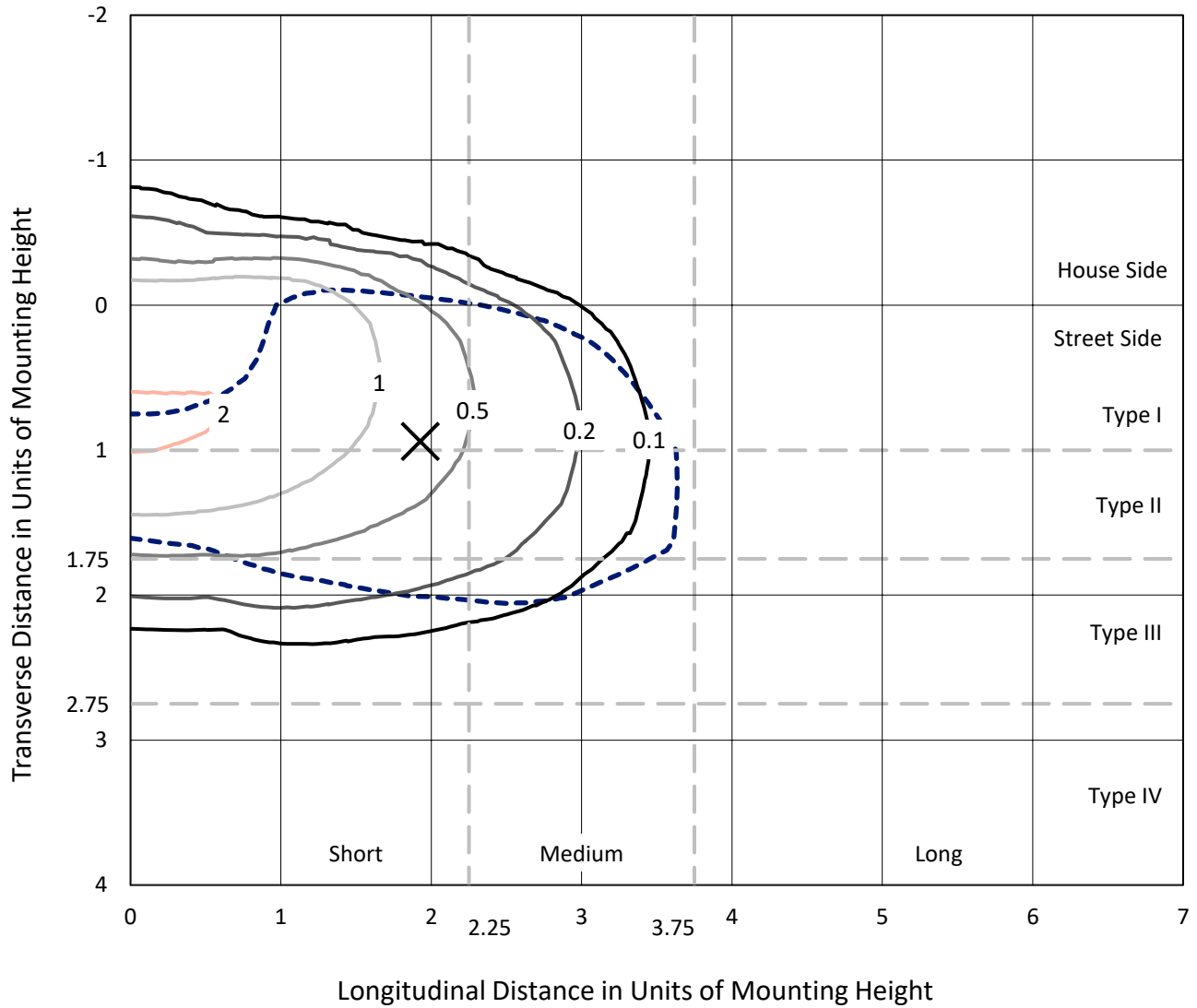
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

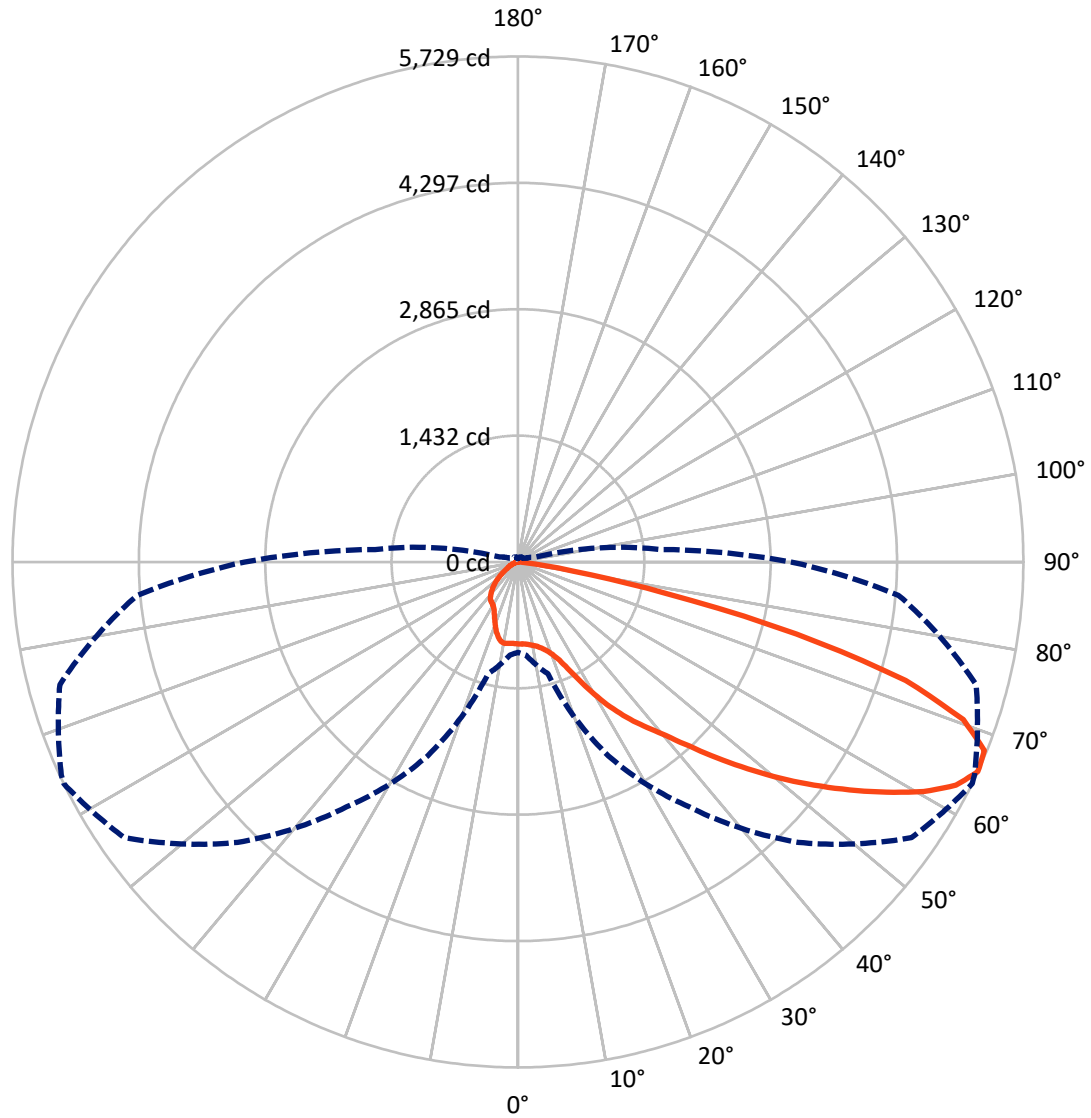
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.6	0.0	1067.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6915.4	0.0	6915.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	7983.0	0.0	7983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.1
10°-20°	232.3	2.9
20°-30°	440.3	5.5
30°-40°	890.9	11.2
40°-50°	1517.7	19.0
50°-60°	2063.9	25.9
60°-70°	1938.1	24.3
70°-80°	776.5	9.7
80°-90°	37.6	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°	7983.0	100.0
0°-180°	7983.0	100.0

Coefficient of Utilization



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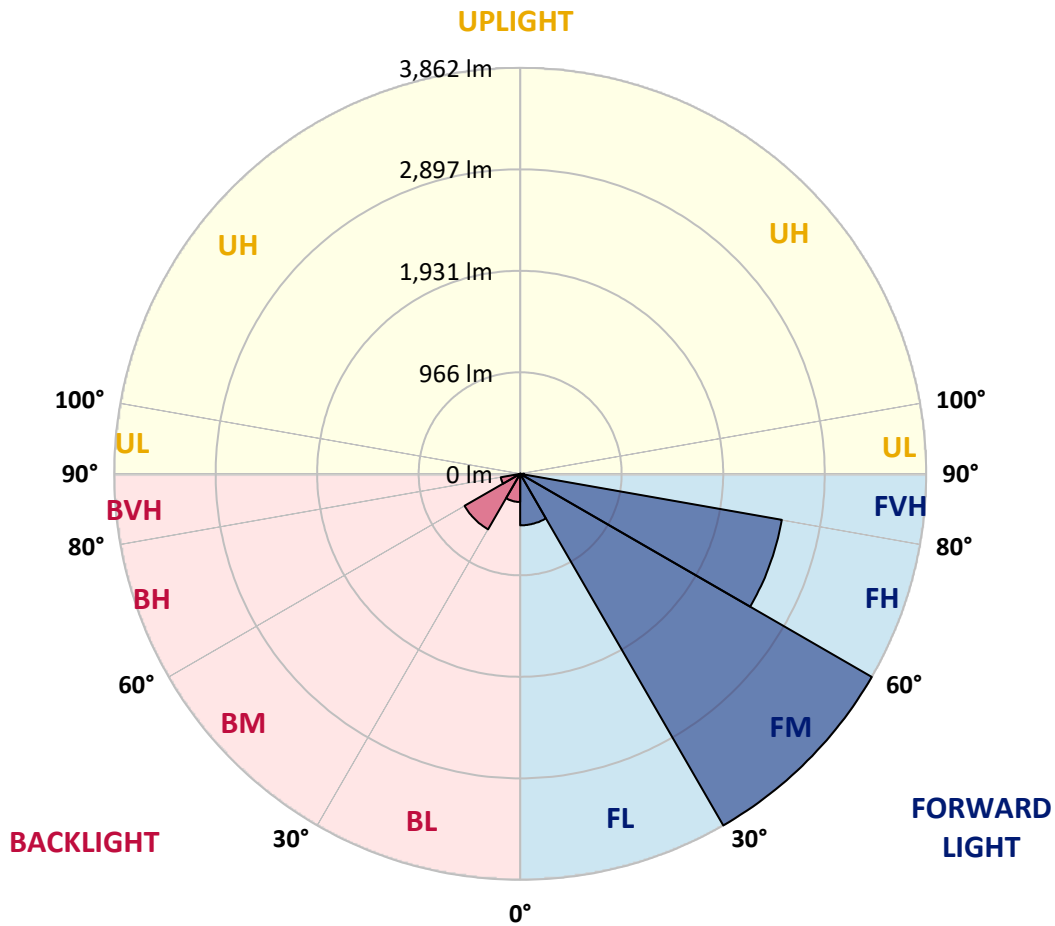
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.2	6.1			
FM (30°-60°)	3862.2	48.4			
FH (60°-80°)	2527.2	31.7			G2/5000
FVH (80°-90°)	35.8	0.4			G1/100
BL (0°-30°)	268.0	3.4	B1/500		
BM (30°-60°)	610.3	7.6	B1/1000		
BH (60°-80°)	187.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	925.3	931.7	930.1	928.5	928.0	929.0	929.6	929.0	929.0	929.0
5°	907.6	913.0	913.0	916.7	922.1	928.5	933.3	934.4	935.5	937.1
7.5°	873.9	878.2	881.4	893.7	907.1	924.2	938.7	946.2	947.2	953.1
10°	850.9	856.3	861.6	874.5	893.7	919.4	944.0	962.2	964.9	978.8
12.5°	849.8	855.2	862.1	876.1	898.5	925.8	955.8	982.0	986.8	1007.2
15°	861.1	867.5	873.9	891.0	915.1	948.3	980.4	1013.1	1017.9	1046.8
17.5°	884.1	892.6	897.5	914.6	940.3	977.2	1019.5	1056.9	1061.2	1094.9
20°	929.6	939.7	941.3	955.3	980.4	1020.0	1070.3	1116.9	1122.2	1160.8
22.5°	1023.8	1038.2	1025.4	1032.3	1054.8	1094.4	1149.0	1207.9	1215.4	1259.2
25°	1189.7	1210.0	1176.8	1165.0	1174.7	1215.9	1284.4	1358.8	1367.3	1402.7
27.5°	1515.6	1489.4	1439.1	1389.8	1360.9	1384.5	1461.5	1553.6	1564.3	1598.5
30°	1873.6	1850.6	1782.6	1673.5	1605.0	1601.2	1672.4	1775.1	1787.4	1820.1
32.5°	2232.2	2210.2	2136.4	2002.0	1883.2	1824.4	1873.6	1987.6	1994.0	2014.9
35°	2584.8	2562.4	2488.5	2351.0	2204.9	2071.1	2061.4	2189.9	2192.0	2214.0
37.5°	2939.6	2920.9	2842.2	2707.4	2563.4	2378.8	2289.4	2381.5	2384.1	2405.6
40°	3192.8	3200.8	3146.8	3042.4	2918.8	2717.0	2545.2	2585.4	2569.3	2605.2
42.5°	3410.1	3426.1	3379.0	3326.6	3254.9	3077.2	2862.0	2855.1	2829.4	2848.7
45°	3597.9	3611.3	3569.0	3556.7	3555.1	3430.4	3208.3	3166.6	3130.7	3127.0
47.5°	3666.9	3692.6	3710.8	3752.0	3832.3	3779.8	3566.3	3501.6	3461.4	3432.0
50°	3693.2	3720.4	3782.5	3902.4	4092.4	4114.9	3922.7	3850.0	3800.7	3747.2
52.5°	3657.8	3706.5	3790.0	3991.8	4267.4	4383.5	4264.7	4201.0	4144.8	4057.6
55°	3449.7	3498.4	3669.1	3990.7	4354.6	4571.9	4587.9	4559.6	4496.4	4358.9
57.5°	3010.8	3083.1	3353.3	3854.8	4353.0	4734.0	4904.8	4925.1	4854.5	4657.5
60°	2402.9	2500.8	2830.5	3553.5	4218.7	4821.8	5182.5	5284.2	5209.3	4951.9
62.5°	1676.7	1790.1	2102.1	3081.5	3911.5	4758.7	5385.3	5573.2	5516.4	5215.2
65°	1022.7	1059.1	1310.6	2424.8	3389.2	4494.3	5447.9	5729.4	5710.7	5376.2
67.5°	681.3	711.8	784.0	1662.7	2630.9	3966.1	5298.1	5702.1	5707.5	5350.0
70°	410.5	436.7	483.8	967.0	1705.0	3139.3	4834.1	5354.3	5385.3	4999.5
72.5°	169.1	186.8	229.6	438.3	883.0	1992.4	3849.4	4597.0	4669.3	4203.7
75°	95.8	104.9	134.9	220.0	383.2	928.5	2331.7	3263.4	3369.9	2897.4
77.5°	63.7	68.0	87.2	142.4	215.7	316.8	996.5	1700.2	1903.6	1582.5
80°	42.8	46.6	59.9	95.3	140.2	135.9	317.4	629.9	774.9	543.7
82.5°	28.9	29.4	42.8	62.6	88.8	65.8	93.7	195.9	246.2	157.3
85°	16.6	16.1	31.6	36.4	39.6	27.3	28.4	58.9	77.1	66.4
87.5°	2.1	3.2	12.3	9.6	5.4	5.9	5.9	10.2	15.0	16.1
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°
928.5	0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
929.6	2.5°	929.6	929.0	927.4	925.8	922.1	919.9	921.0	919.9	919.4	919.9
936.5	5°	936.5	934.9	930.6	925.3	917.8	908.7	902.8	894.3	886.2	881.4
955.3	7.5°	955.3	953.7	947.8	932.8	908.7	870.7	835.9	805.4	782.4	769.0
985.2	10°	985.2	982.6	973.5	940.3	877.1	794.2	725.1	667.9	630.4	612.8
1020.6	12.5°	1020.6	1017.3	1001.3	933.3	817.2	687.7	592.4	528.7	494.0	478.4
1061.2	15°	1062.3	1058.0	1026.4	900.1	730.0	569.9	482.7	435.1	412.6	398.7
1113.1	17.5°	1114.2	1106.7	1045.2	850.4	635.2	480.0	415.3	379.4	359.6	346.2
1181.1	20°	1181.6	1169.3	1060.2	791.0	548.0	423.3	369.8	339.8	324.8	313.1
1277.4	22.5°	1275.8	1258.2	1078.4	726.7	486.5	384.2	336.1	314.1	301.8	288.5
1411.8	25°	1392.5	1371.6	1100.8	667.3	444.2	350.5	311.5	293.3	278.8	263.3
1587.8	27.5°	1555.7	1518.3	1127.6	618.6	407.8	321.6	289.0	268.7	252.1	239.2
1787.4	30°	1737.7	1676.1	1151.1	589.2	374.6	294.9	259.6	239.2	223.7	214.6
1966.7	32.5°	1910.0	1826.5	1166.7	576.4	344.6	264.4	227.4	205.5	193.7	191.1
2142.3	35°	2072.7	1962.4	1165.0	564.1	317.9	233.9	195.9	173.4	164.3	165.9
2331.2	37.5°	2260.0	2107.5	1153.8	544.8	295.9	206.0	168.6	148.8	140.7	141.3
2560.7	40°	2477.8	2275.0	1146.9	508.4	271.9	180.3	146.1	130.0	124.2	122.0
2802.6	42.5°	2710.1	2437.1	1147.9	467.2	241.9	157.3	130.6	117.2	111.8	110.2
3071.8	45°	2943.4	2591.8	1149.5	424.4	210.3	139.7	119.3	108.1	104.9	102.8
3344.8	47.5°	3162.8	2723.4	1119.6	378.4	179.3	126.3	110.2	102.8	100.1	97.4
3618.8	50°	3367.2	2811.2	1047.3	324.8	154.7	115.6	103.3	97.9	95.3	92.6
3867.1	52.5°	3526.2	2825.1	928.0	269.7	137.5	107.6	99.0	94.2	91.0	88.3
4067.8	55°	3596.8	2737.9	758.3	218.3	124.2	100.6	94.7	89.9	86.2	83.5
4225.6	57.5°	3578.6	2554.3	591.4	175.5	111.3	93.7	89.4	86.2	81.9	77.6
4353.5	60°	3489.3	2308.7	445.8	146.1	99.5	86.2	83.5	80.8	74.9	68.5
4402.8	62.5°	3334.6	1999.9	317.9	120.9	86.7	77.6	76.5	74.4	65.8	54.1
4330.0	65°	3098.1	1624.8	214.1	100.6	74.4	68.0	68.5	64.8	53.5	40.1
4063.5	67.5°	2752.3	1188.1	137.0	82.4	62.1	56.7	57.3	55.1	45.5	34.3
3558.3	70°	2311.9	786.7	89.4	62.6	49.8	43.9	47.1	47.6	38.5	27.8
2730.9	72.5°	1694.9	464.5	62.6	46.6	36.4	30.5	38.5	39.6	31.0	20.9
1642.9	75°	966.0	220.5	47.1	33.7	22.5	21.4	30.0	30.0	21.4	13.9
711.2	77.5°	405.7	92.0	33.2	21.9	12.8	12.3	20.3	18.7	10.7	6.4
173.4	80°	117.2	41.2	17.7	10.7	5.4	4.8	8.0	5.9	2.7	1.1
65.8	82.5°	46.0	18.2	7.0	4.3	2.1	2.1	1.1	0.0	0.0	0.0
37.5	85°	27.3	7.5	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0
8.0	87.5°	7.0	1.6	1.1	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°
928.5
922.1
882.5
769.6
611.2
476.8
399.2
345.2
310.9
286.3
261.7
236.5
213.0
192.7
165.9
143.4
121.5
109.7
102.8
97.4
92.6
87.8
83.0
77.1
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