

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: P939656

Luminaire Tested: **GALN-SB2B-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939656
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-SB2B-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8192 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

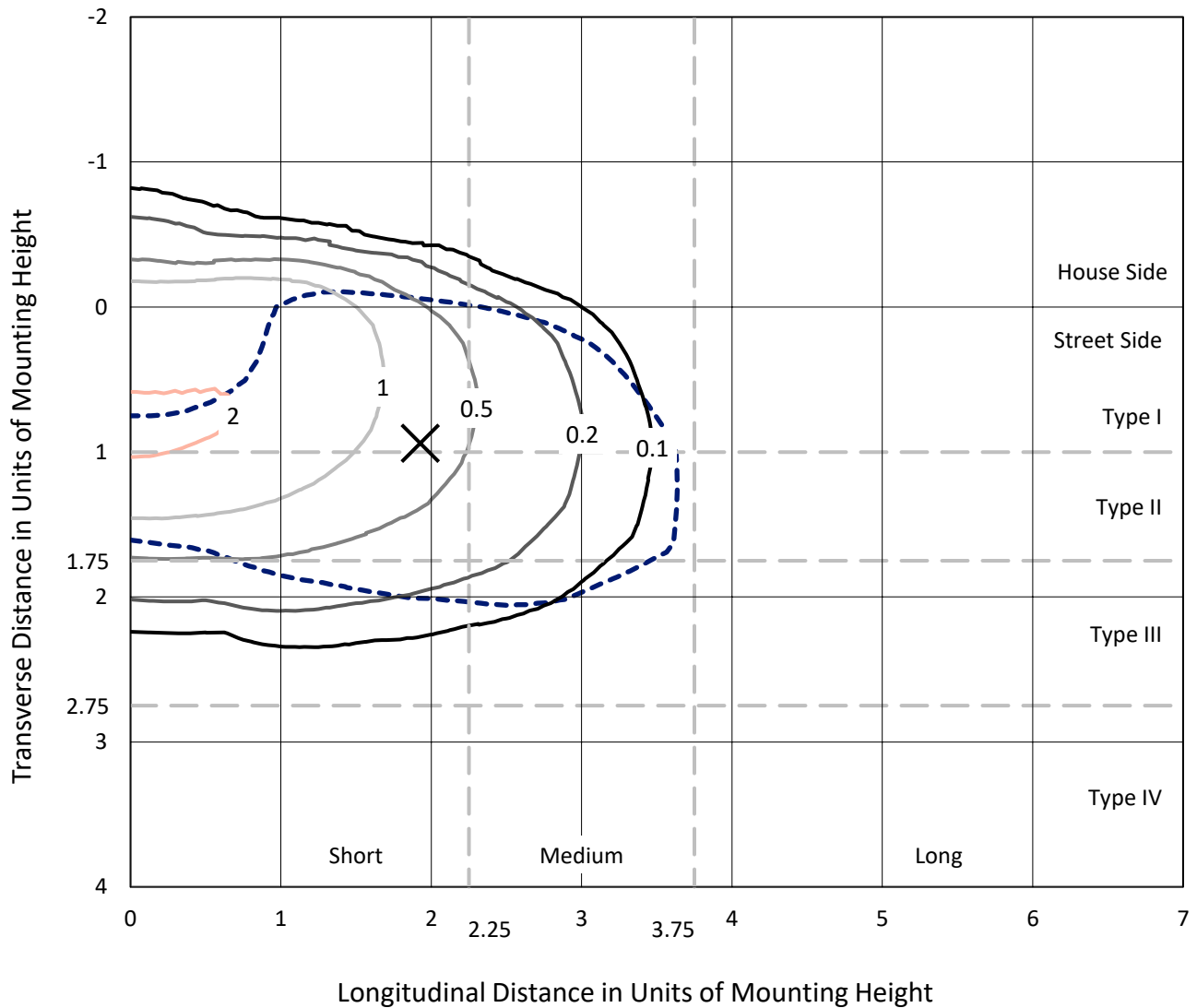
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

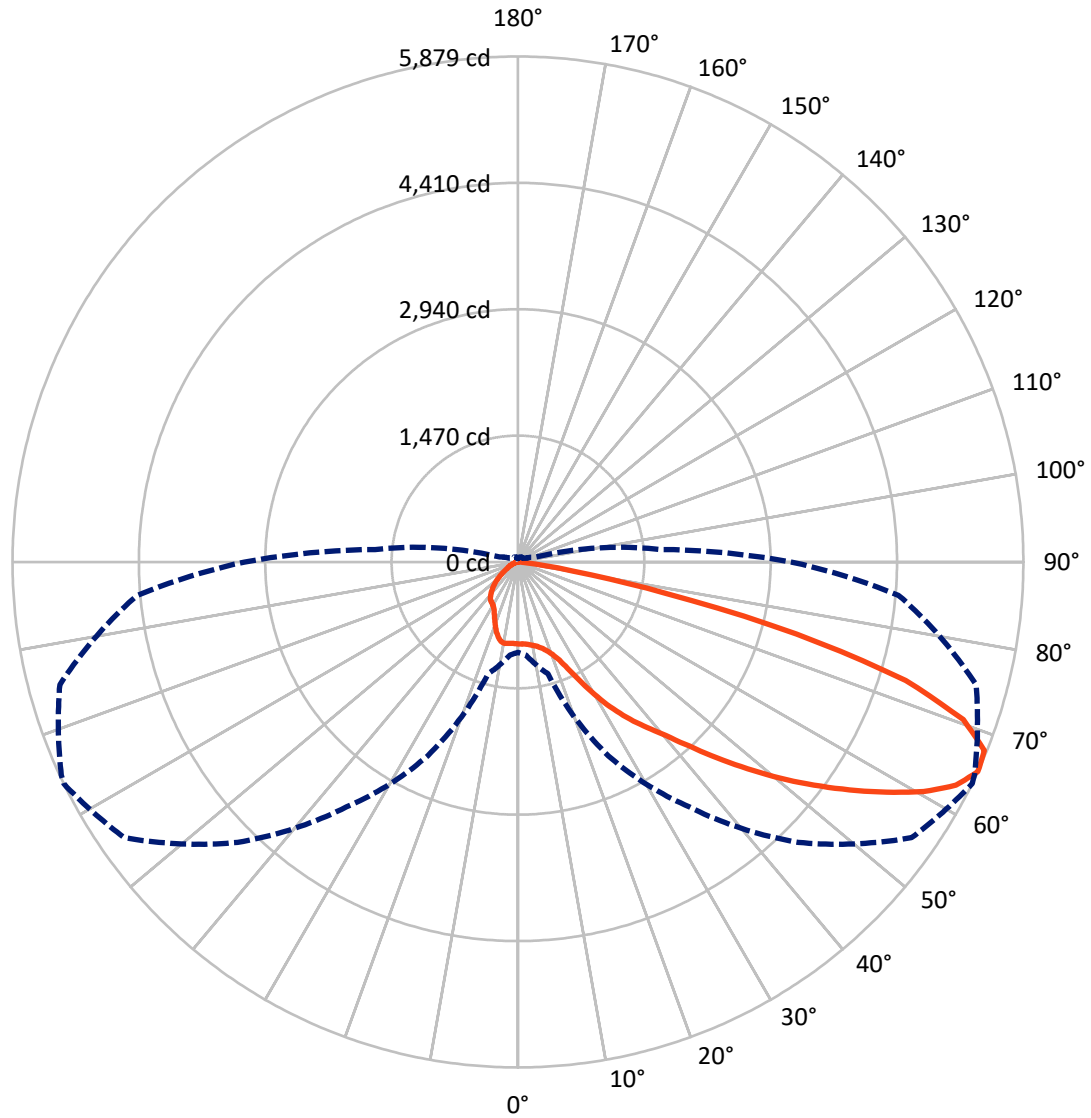
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1095.5	0.0	1095.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7096.5	0.0	7096.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	8192.0	0.0	8192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.1
10°-20°	238.4	2.9
20°-30°	451.8	5.5
30°-40°	914.2	11.2
40°-50°	1557.4	19.0
50°-60°	2117.9	25.9
60°-70°	1988.9	24.3
70°-80°	796.8	9.7
80°-90°	38.6	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°	8192.0	100.0
0°-180°	8192.0	100.0

Coefficient of Utilization



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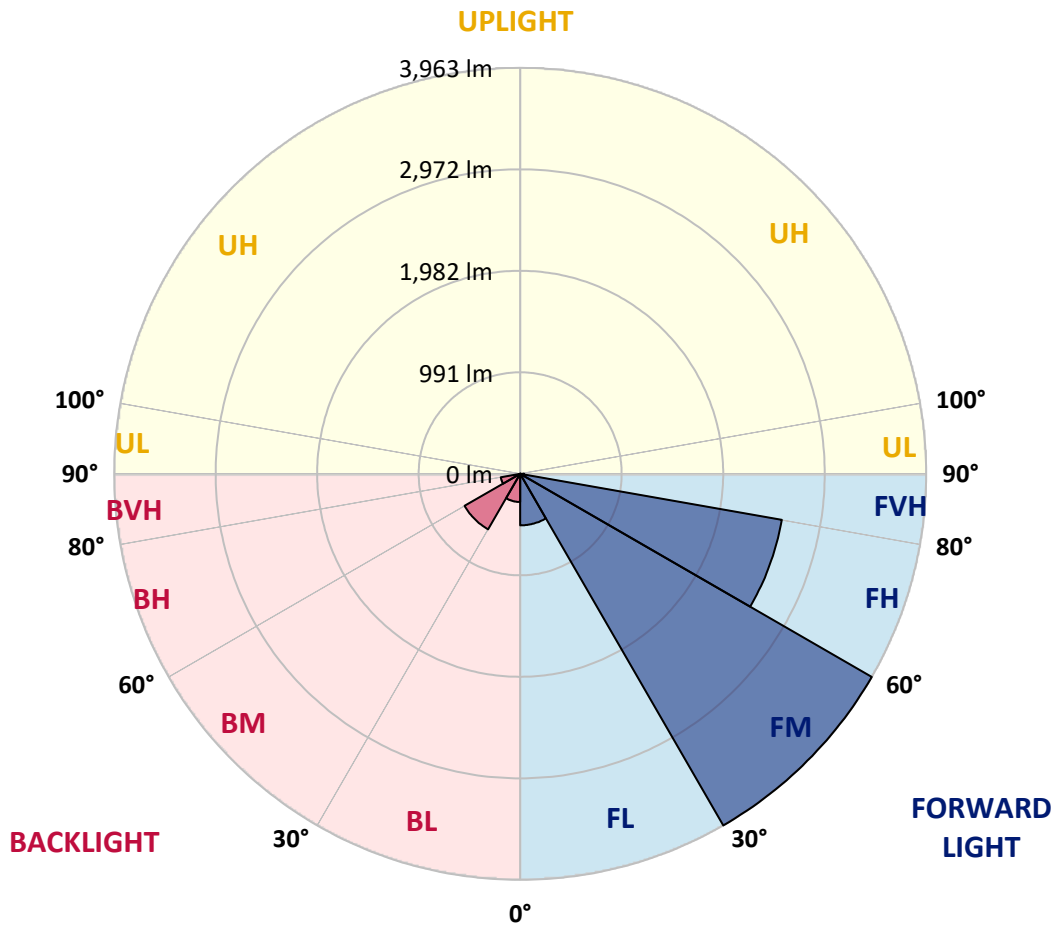
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.1	6.1			
FM (30°-60°)	3963.3	48.4			
FH (60°-80°)	2593.4	31.7			G2/5000
FVH (80°-90°)	36.7	0.4			G1/100
BL (0°-30°)	275.1	3.4	B1/500		
BM (30°-60°)	626.3	7.6	B1/1000		
BH (60°-80°)	192.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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°	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8
2.5°	949.5	956.1	954.5	952.8	952.3	953.4	953.9	953.4	953.4	953.4
5°	931.4	936.9	936.9	940.7	946.2	952.8	957.8	958.9	960.0	961.6
7.5°	896.8	901.2	904.5	917.1	930.8	948.4	963.2	970.9	972.0	978.1
10°	873.2	878.7	884.2	897.3	917.1	943.5	968.7	987.4	990.2	1004.4
12.5°	872.1	877.6	884.7	899.0	922.1	950.1	980.8	1007.7	1012.7	1033.5
15°	883.6	890.2	896.8	914.4	939.1	973.1	1006.1	1039.6	1044.5	1074.2
17.5°	907.2	916.0	921.0	938.5	964.9	1002.8	1046.2	1084.6	1089.0	1123.6
20°	953.9	964.3	966.0	980.3	1006.1	1046.7	1098.3	1146.1	1151.6	1191.2
22.5°	1050.6	1065.4	1052.2	1059.4	1082.4	1123.1	1179.1	1239.5	1247.2	1292.2
25°	1220.8	1241.7	1207.6	1195.5	1205.4	1247.7	1318.0	1394.3	1403.1	1439.4
27.5°	1555.3	1528.3	1476.7	1426.2	1396.5	1420.7	1499.8	1594.2	1605.2	1640.4
30°	1922.7	1899.0	1829.3	1717.3	1647.0	1643.1	1716.2	1821.6	1834.2	1867.7
32.5°	2290.6	2268.1	2192.3	2054.5	1932.5	1872.1	1922.7	2039.6	2046.2	2067.6
35°	2652.5	2629.4	2553.7	2412.5	2262.6	2125.3	2115.4	2247.2	2249.4	2271.9
37.5°	3016.6	2997.4	2916.7	2778.3	2630.5	2441.1	2349.4	2443.8	2446.6	2468.5
40°	3276.4	3284.6	3229.1	3122.0	2995.2	2788.1	2611.9	2653.1	2636.6	2673.4
42.5°	3499.3	3515.8	3467.5	3413.7	3340.1	3157.7	2937.0	2929.8	2903.5	2923.2
45°	3692.1	3705.8	3662.4	3649.8	3648.2	3520.2	3292.3	3249.5	3212.7	3208.8
47.5°	3762.9	3789.3	3808.0	3850.2	3932.6	3878.8	3659.7	3593.2	3552.0	3521.8
50°	3789.8	3817.8	3881.6	4004.6	4199.5	4222.6	4025.4	3950.7	3900.2	3845.3
52.5°	3753.6	3803.6	3889.2	4096.3	4379.1	4498.3	4376.4	4311.0	4253.3	4163.8
55°	3540.0	3589.9	3765.1	4095.2	4468.6	4691.6	4708.1	4679.0	4614.1	4473.0
57.5°	3089.6	3163.8	3441.1	3955.7	4467.0	4858.0	5033.2	5054.0	4981.5	4779.5
60°	2465.8	2566.3	2904.6	3646.5	4329.1	4948.0	5318.2	5422.5	5345.6	5081.5
62.5°	1720.6	1837.0	2157.2	3162.1	4013.9	4883.2	5526.3	5719.1	5660.9	5351.7
65°	1049.5	1086.8	1344.9	2488.3	3477.9	4612.0	5590.6	5879.4	5860.2	5517.0
67.5°	699.1	730.4	804.5	1706.3	2699.7	4069.9	5436.8	5851.4	5856.9	5490.1
70°	421.2	448.1	496.5	992.4	1749.7	3221.4	4960.7	5494.5	5526.3	5130.4
72.5°	173.5	191.7	235.6	449.8	906.1	2044.6	3950.2	4717.4	4791.5	4313.8
75°	98.3	107.6	138.4	225.7	393.2	952.8	2392.7	3348.9	3458.1	2973.2
77.5°	65.4	69.7	89.5	146.1	221.3	325.1	1022.6	1744.7	1953.4	1623.9
80°	43.9	47.8	61.5	97.8	143.9	139.5	325.7	646.4	795.2	558.0
82.5°	29.7	30.2	43.9	64.3	91.2	67.5	96.1	201.0	252.6	161.5
85°	17.0	16.5	32.4	37.3	40.6	28.0	29.1	60.4	79.1	68.1
87.5°	2.2	3.3	12.6	9.9	5.5	6.0	6.0	10.4	15.4	16.5
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°
952.8	0°	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8	952.8
953.9	2.5°	953.9	953.4	951.7	950.1	946.2	944.0	945.1	944.0	943.5	944.0
961.1	5°	961.1	959.4	955.0	949.5	941.8	932.5	926.5	917.7	909.4	904.5
980.3	7.5°	980.3	978.6	972.6	957.2	932.5	893.5	857.8	826.5	802.9	789.2
1011.0	10°	1011.0	1008.3	998.9	964.9	900.1	815.0	744.1	685.4	646.9	628.8
1047.3	12.5°	1047.3	1044.0	1027.5	957.8	838.6	705.7	607.9	542.6	506.9	491.0
1089.0	15°	1090.1	1085.7	1053.3	923.7	749.1	584.9	495.4	446.5	423.4	409.1
1142.3	17.5°	1143.4	1135.7	1072.5	872.6	651.9	492.6	426.2	389.4	369.0	355.3
1212.0	20°	1212.6	1199.9	1087.9	811.7	562.4	434.4	379.5	348.7	333.3	321.3
1310.9	22.5°	1309.2	1291.1	1106.6	745.8	499.2	394.3	344.9	322.4	309.7	296.0
1448.7	25°	1428.9	1407.5	1129.6	684.8	455.8	359.7	319.6	300.9	286.1	270.2
1629.4	27.5°	1596.4	1558.0	1157.1	634.8	418.5	330.1	296.6	275.7	258.7	245.5
1834.2	30°	1783.2	1720.0	1181.3	604.6	384.4	302.6	266.3	245.5	229.6	220.2
2018.2	32.5°	1960.0	1874.3	1197.2	591.5	353.7	271.3	233.4	210.9	198.8	196.1
2198.3	35°	2126.9	2013.8	1195.5	578.8	326.2	240.0	201.0	177.9	168.6	170.2
2392.2	37.5°	2319.2	2162.6	1184.0	559.1	303.7	211.4	173.0	152.7	144.4	145.0
2627.8	40°	2542.7	2334.5	1176.9	521.7	279.0	185.1	149.9	133.4	127.4	125.2
2876.0	42.5°	2781.0	2500.9	1178.0	479.4	248.2	161.5	134.0	120.3	114.8	113.1
3152.3	45°	3020.4	2659.6	1179.6	435.5	215.8	143.3	122.5	110.9	107.6	105.4
3432.3	47.5°	3245.6	2794.7	1148.9	388.3	184.0	129.6	113.1	105.4	102.7	99.9
3713.5	50°	3455.4	2884.8	1074.7	333.3	158.7	118.6	106.0	100.5	97.8	95.0
3968.3	52.5°	3618.5	2899.1	952.3	276.8	141.1	110.4	101.6	96.7	93.4	90.6
4174.3	55°	3691.0	2809.6	778.2	224.1	127.4	103.2	97.2	92.3	88.4	85.7
4336.3	57.5°	3672.3	2621.2	606.8	180.1	114.2	96.1	91.7	88.4	84.0	79.6
4467.5	60°	3580.6	2369.1	457.5	149.9	102.1	88.4	85.7	82.9	76.9	70.3
4518.0	62.5°	3421.9	2052.3	326.2	124.1	89.0	79.6	78.5	76.3	67.5	55.5
4443.4	65°	3179.2	1667.3	219.7	103.2	76.3	69.7	70.3	66.4	54.9	41.2
4169.9	67.5°	2824.4	1219.2	140.6	84.6	63.7	58.2	58.8	56.6	46.7	35.1
3651.4	70°	2372.4	807.3	91.7	64.3	51.1	45.0	48.3	48.9	39.5	28.6
2802.4	72.5°	1739.2	476.7	64.3	47.8	37.3	31.3	39.5	40.6	31.9	21.4
1686.0	75°	991.3	226.3	48.3	34.6	23.1	22.0	30.8	30.8	22.0	14.3
729.9	77.5°	416.3	94.5	34.0	22.5	13.2	12.6	20.9	19.2	11.0	6.6
177.9	80°	120.3	42.3	18.1	11.0	5.5	4.9	8.2	6.0	2.7	1.1
67.5	82.5°	47.2	18.7	7.1	4.4	2.2	2.2	1.1	0.0	0.0	0.0
38.4	85°	28.0	7.7	3.3	1.6	0.5	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	7.1	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

<u>180°</u>
952.8
946.2
905.6
789.7
627.2
489.3
409.7
354.2
319.1
293.8
268.5
242.7
218.6
197.7
170.2
147.2
124.7
112.6
105.4
99.9
95.0
90.1
85.1
79.1
69.2
54.4
40.1
33.5
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