

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: P939596

Luminaire Tested: **GALN-SB2B-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939596
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-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 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: 8832 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

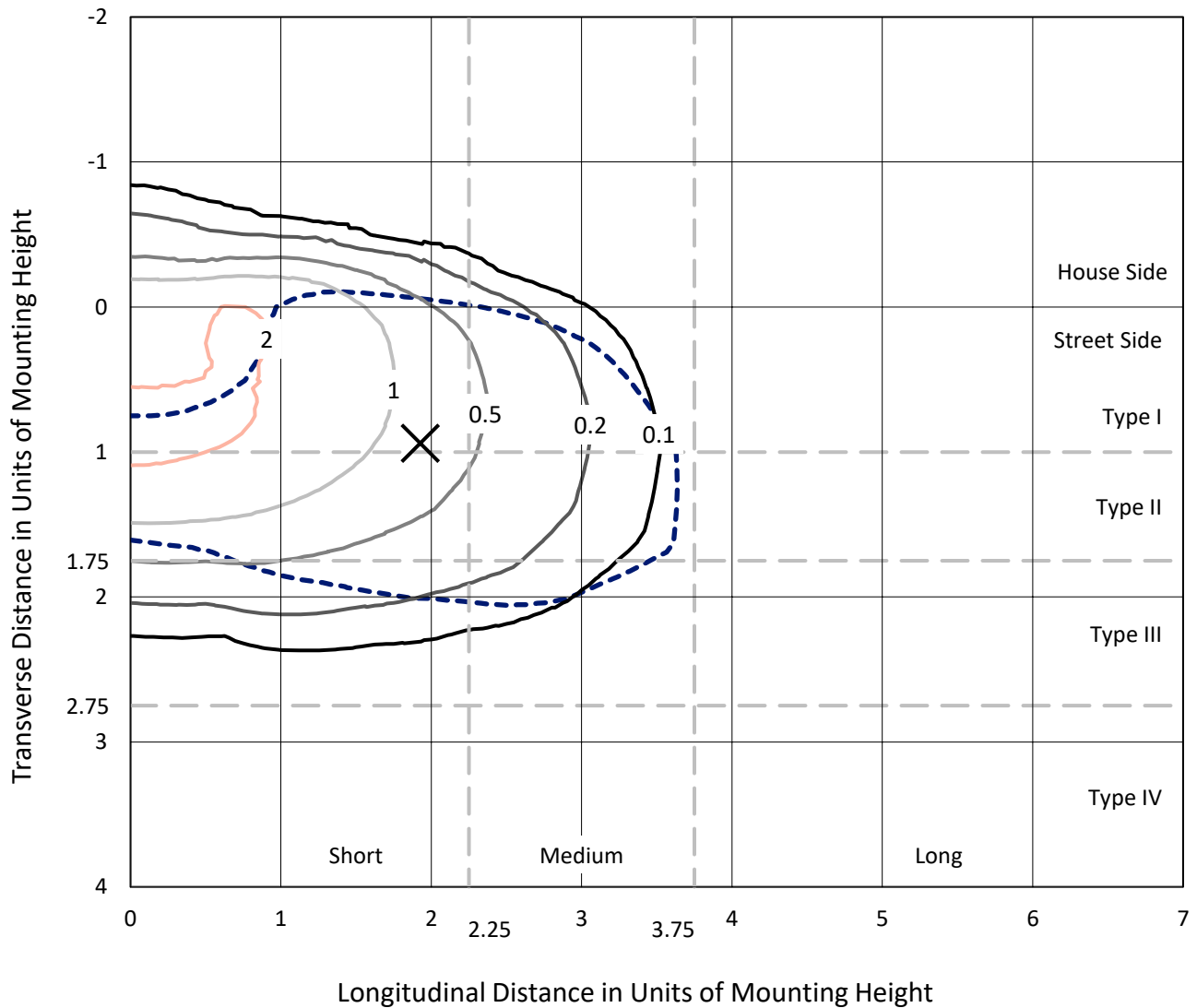
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

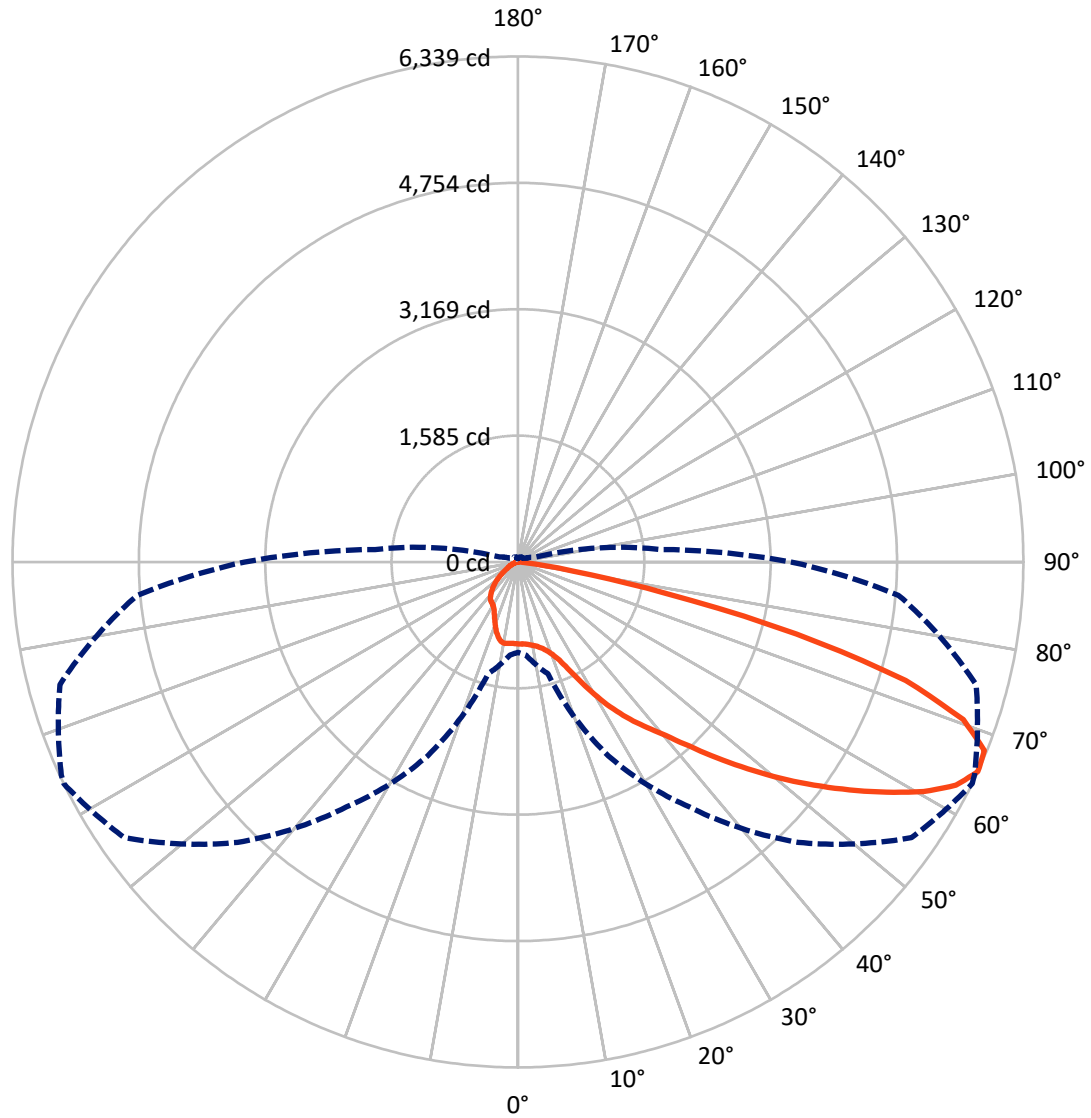
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1181.1	0.0	1181.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7650.9	0.0	7650.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	8832.0	0.0	8832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.1
10°-20°	257.1	2.9
20°-30°	487.1	5.5
30°-40°	985.7	11.2
40°-50°	1679.1	19.0
50°-60°	2283.4	25.9
60°-70°	2144.2	24.3
70°-80°	859.1	9.7
80°-90°	41.6	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°	8832.0	100.0
0°-180°	8832.0	100.0

Coefficient of Utilization



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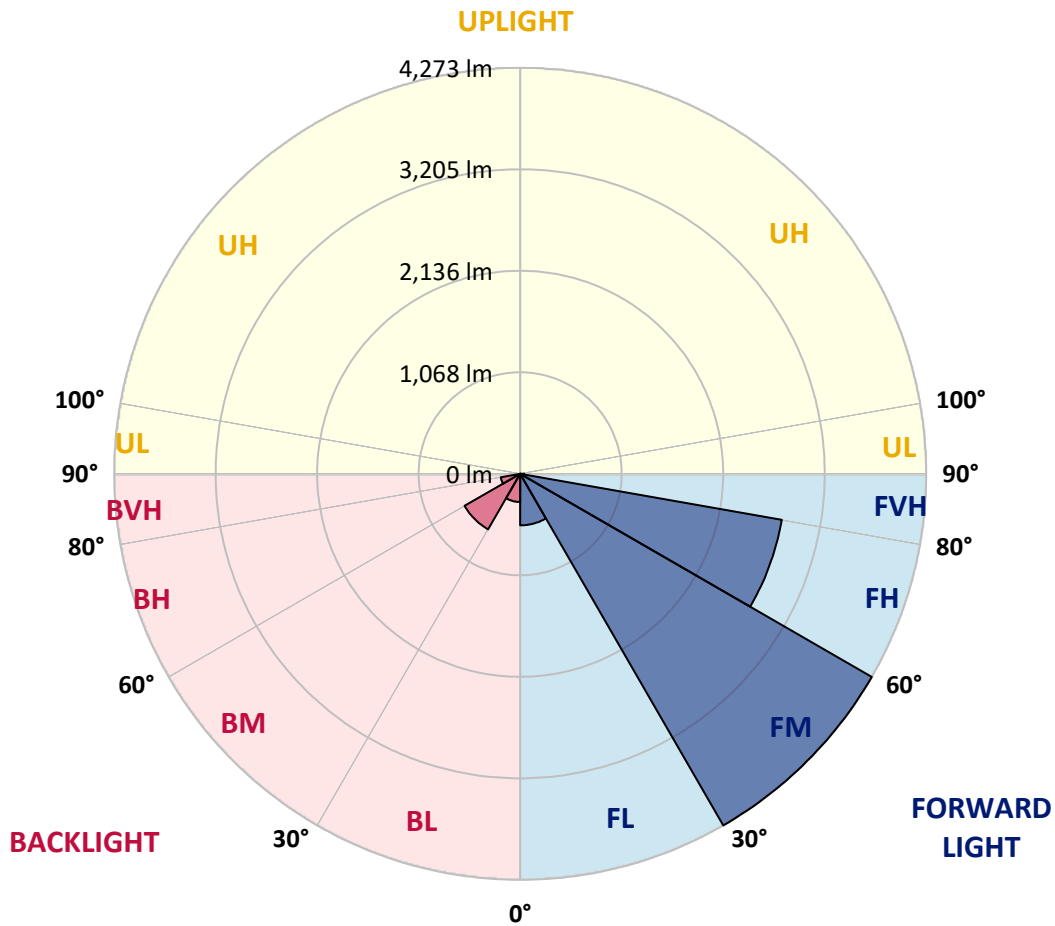
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.4	6.1			
FM (30°-60°)	4272.9	48.4			
FH (60°-80°)	2796.0	31.7			G2/5000
FVH (80°-90°)	39.6	0.4			G1/100
BL (0°-30°)	296.5	3.4	B1/500		
BM (30°-60°)	675.2	7.6	B1/1000		
BH (60°-80°)	207.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	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°	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3
2.5°	1023.7	1030.8	1029.0	1027.3	1026.7	1027.8	1028.4	1027.8	1027.8	1027.8
5°	1004.2	1010.1	1010.1	1014.2	1020.1	1027.3	1032.6	1033.8	1035.0	1036.7
7.5°	966.9	971.6	975.2	988.8	1003.6	1022.5	1038.5	1046.8	1048.0	1054.5
10°	941.4	947.3	953.2	967.5	988.8	1017.2	1044.4	1064.6	1067.5	1082.9
12.5°	940.2	946.1	953.8	969.2	994.1	1024.3	1057.4	1086.5	1091.8	1114.3
15°	952.7	959.8	966.9	985.8	1012.5	1049.2	1084.7	1120.8	1126.1	1158.1
17.5°	978.1	987.6	992.9	1011.9	1040.3	1081.1	1127.9	1169.4	1174.1	1211.4
20°	1028.4	1039.7	1041.5	1056.9	1084.7	1128.5	1184.2	1235.7	1241.6	1284.2
22.5°	1132.6	1148.6	1134.4	1142.1	1167.0	1210.8	1271.2	1336.3	1344.6	1393.2
25°	1316.2	1338.7	1302.0	1289.0	1299.6	1345.2	1421.0	1503.3	1512.8	1551.8
27.5°	1676.8	1647.7	1592.1	1537.6	1505.7	1531.7	1617.0	1718.8	1730.6	1768.5
30°	2072.9	2047.4	1972.2	1851.4	1775.6	1771.5	1850.2	1963.9	1977.5	2013.7
32.5°	2469.6	2445.3	2363.6	2215.0	2083.5	2018.4	2072.9	2199.0	2206.1	2229.2
35°	2859.7	2834.9	2753.2	2601.0	2439.4	2291.3	2280.7	2422.8	2425.1	2449.4
37.5°	3252.3	3231.6	3144.5	2995.3	2836.0	2631.8	2532.9	2634.7	2637.7	2661.4
40°	3532.3	3541.2	3481.4	3366.0	3229.2	3006.0	2815.9	2860.3	2842.6	2882.2
42.5°	3772.7	3790.5	3738.4	3680.3	3601.0	3404.4	3166.4	3158.7	3130.3	3151.6
45°	3980.5	3995.3	3948.6	3934.9	3933.2	3795.2	3549.5	3503.3	3463.6	3459.5
47.5°	4056.9	4085.3	4105.5	4151.1	4239.9	4181.8	3945.6	3874.0	3829.6	3797.0
50°	4085.9	4116.1	4184.8	4317.4	4527.6	4552.5	4339.9	4259.4	4204.9	4145.7
52.5°	4046.8	4100.7	4193.1	4416.3	4721.2	4849.7	4718.3	4647.8	4585.6	4489.1
55°	3816.5	3870.4	4059.3	4415.1	4817.7	5058.1	5075.9	5044.5	4974.6	4822.5
57.5°	3331.0	3411.0	3710.0	4264.7	4816.0	5237.5	5426.4	5448.9	5370.7	5152.8
60°	2658.4	2766.8	3131.5	3931.4	4667.3	5334.6	5733.7	5846.2	5763.3	5478.5
62.5°	1855.0	1980.5	2325.7	3409.2	4327.5	5264.7	5958.1	6165.9	6103.1	5769.8
65°	1131.5	1171.7	1450.0	2682.7	3749.6	4972.3	6027.3	6338.8	6318.1	5948.0
67.5°	753.7	787.5	867.4	1839.6	2910.6	4387.9	5861.6	6308.6	6314.5	5919.0
70°	454.1	483.1	535.2	1069.9	1886.4	3473.1	5348.2	5923.7	5958.1	5531.2
72.5°	187.1	206.6	254.0	484.9	976.9	2204.3	4258.8	5085.9	5165.9	4650.8
75°	106.0	116.0	149.2	243.3	423.9	1027.3	2579.7	3610.5	3728.3	3205.5
77.5°	70.5	75.2	96.5	157.5	238.6	350.5	1102.4	1881.0	2106.0	1750.8
80°	47.4	51.5	66.3	105.4	155.1	150.4	351.1	696.9	857.3	601.6
82.5°	32.0	32.6	47.4	69.3	98.3	72.8	103.6	216.7	272.4	174.1
85°	18.4	17.8	34.9	40.3	43.8	30.2	31.4	65.1	85.3	73.4
87.5°	2.4	3.6	13.6	10.7	5.9	6.5	6.5	11.2	16.6	17.8
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°
1027.3	0°	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3
1028.4	2.5°	1028.4	1027.8	1026.1	1024.3	1020.1	1017.8	1019.0	1017.8	1017.2	1017.8
1036.1	5°	1036.1	1034.4	1029.6	1023.7	1015.4	1005.3	998.8	989.4	980.5	975.2
1056.9	7.5°	1056.9	1055.1	1048.6	1032.0	1005.3	963.3	924.8	891.1	865.6	850.8
1090.0	10°	1090.0	1087.1	1077.0	1040.3	970.4	878.6	802.3	738.9	697.5	677.9
1129.1	12.5°	1129.1	1125.5	1107.8	1032.6	904.1	760.8	655.4	585.0	546.5	529.3
1174.1	15°	1175.3	1170.5	1135.6	995.9	807.6	630.6	534.1	481.4	456.5	441.1
1231.5	17.5°	1232.7	1224.4	1156.3	940.8	702.8	531.1	459.5	419.8	397.9	383.1
1306.7	20°	1307.3	1293.7	1172.9	875.1	606.3	468.3	409.1	376.0	359.4	346.4
1413.3	22.5°	1411.5	1392.0	1193.0	804.0	538.2	425.1	371.8	347.5	333.9	319.1
1561.9	25°	1540.6	1517.5	1217.9	738.3	491.4	387.8	344.6	324.5	308.5	291.3
1756.7	27.5°	1721.2	1679.7	1247.5	684.4	451.2	355.8	319.7	297.2	278.9	264.7
1977.5	30°	1922.5	1854.4	1273.6	651.9	414.5	326.2	287.2	264.7	247.5	237.4
2175.9	32.5°	2113.1	2020.8	1290.7	637.7	381.3	292.5	251.6	227.4	214.3	211.4
2370.1	35°	2293.1	2171.1	1289.0	624.0	351.7	258.7	216.7	191.8	181.8	183.5
2579.1	37.5°	2500.3	2331.6	1276.5	602.7	327.4	227.9	186.5	164.6	155.7	156.3
2833.1	40°	2741.3	2516.9	1268.8	562.5	300.8	199.5	161.6	143.9	137.4	135.0
3100.7	42.5°	2998.3	2696.3	1270.0	516.9	267.6	174.1	144.5	129.7	123.7	122.0
3398.5	45°	3256.4	2867.4	1271.8	469.5	232.7	154.5	132.0	119.6	116.0	113.7
3700.5	47.5°	3499.2	3013.1	1238.6	418.6	198.3	139.7	122.0	113.7	110.7	107.8
4003.6	50°	3725.3	3110.2	1158.7	359.4	171.1	127.9	114.3	108.4	105.4	102.4
4278.3	52.5°	3901.2	3125.6	1026.7	298.4	152.2	119.0	109.5	104.2	100.7	97.7
4500.4	55°	3979.3	3029.1	839.0	241.6	137.4	111.3	104.8	99.5	95.3	92.4
4675.0	57.5°	3959.2	2826.0	654.2	194.2	123.2	103.6	98.9	95.3	90.6	85.9
4816.5	60°	3860.3	2554.2	493.2	161.6	110.1	95.3	92.4	89.4	82.9	75.8
4871.0	62.5°	3689.2	2212.6	351.7	133.8	95.9	85.9	84.7	82.3	72.8	59.8
4790.5	65°	3427.5	1797.5	236.8	111.3	82.3	75.2	75.8	71.6	59.2	44.4
4495.6	67.5°	3045.1	1314.4	151.6	91.2	68.7	62.8	63.4	61.0	50.3	37.9
3936.7	70°	2557.8	870.4	98.9	69.3	55.1	48.6	52.1	52.7	42.6	30.8
3021.4	72.5°	1875.1	513.9	69.3	51.5	40.3	33.7	42.6	43.8	34.3	23.1
1817.7	75°	1068.7	243.9	52.1	37.3	24.9	23.7	33.2	33.2	23.7	15.4
786.9	77.5°	448.8	101.8	36.7	24.3	14.2	13.6	22.5	20.7	11.8	7.1
191.8	80°	129.7	45.6	19.5	11.8	5.9	5.3	8.9	6.5	3.0	1.2
72.8	82.5°	50.9	20.1	7.7	4.7	2.4	2.4	1.2	0.0	0.0	0.0
41.4	85°	30.2	8.3	3.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0
8.9	87.5°	7.7	1.8	1.2	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>
1027.3
1020.1
976.3
851.4
676.2
527.5
441.7
381.9
344.0
316.8
289.5
261.7
235.6
213.1
183.5
158.7
134.4
121.4
113.7
107.8
102.4
97.1
91.8
85.3
74.6
58.6
43.2
36.1
29.6
21.9
14.2
7.1
1.2
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