

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: P938968

Luminaire Tested: **GALN-SB1B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3832 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

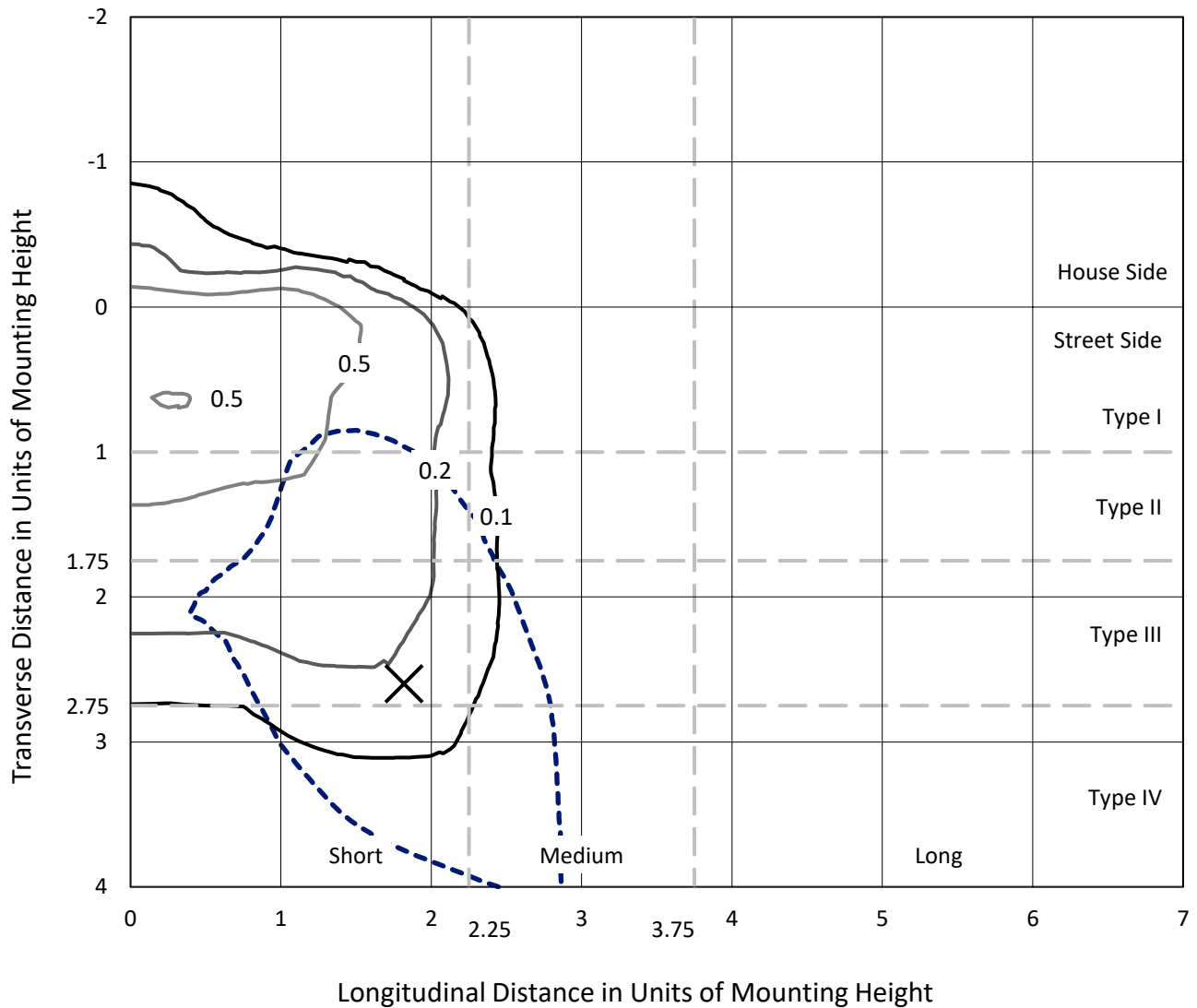
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938968
 CATALOG NUMBER: GALN-SB1B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

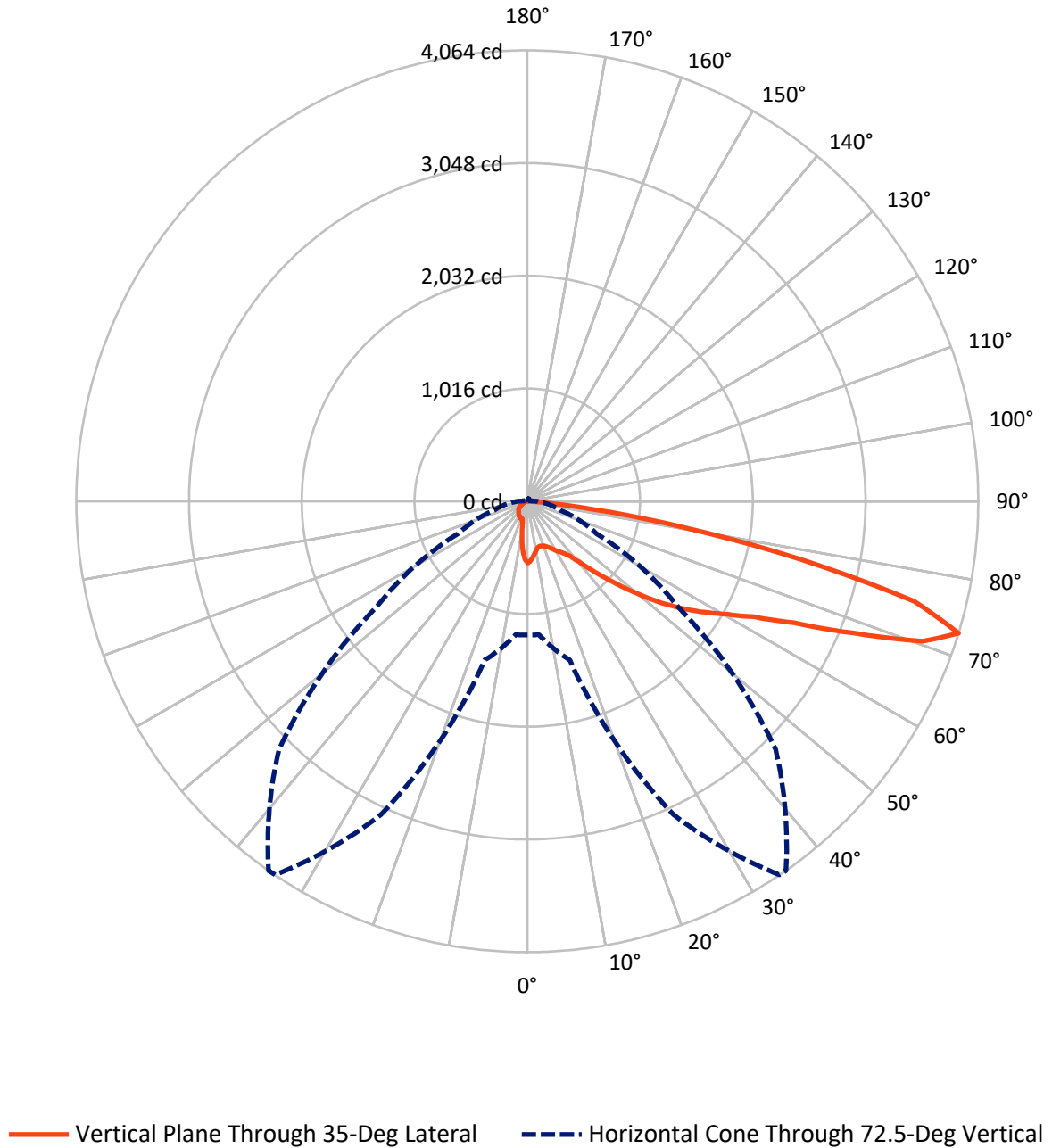
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P938968
CATALOG NUMBER: GALN-SB1B-830-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	431.3	0.0	431.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	3400.7	0.0	3400.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	3832.0	0.0	3832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	1.2
10°-20°	106.8	2.8
20°-30°	173.4	4.5
30°-40°	289.4	7.6
40°-50°	547.5	14.3
50°-60°	870.0	22.7
60°-70°	1076.2	28.1
70°-80°	669.0	17.5
80°-90°	54.1	1.4
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°	3832.0	100.0
0°-180°	3832.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938968

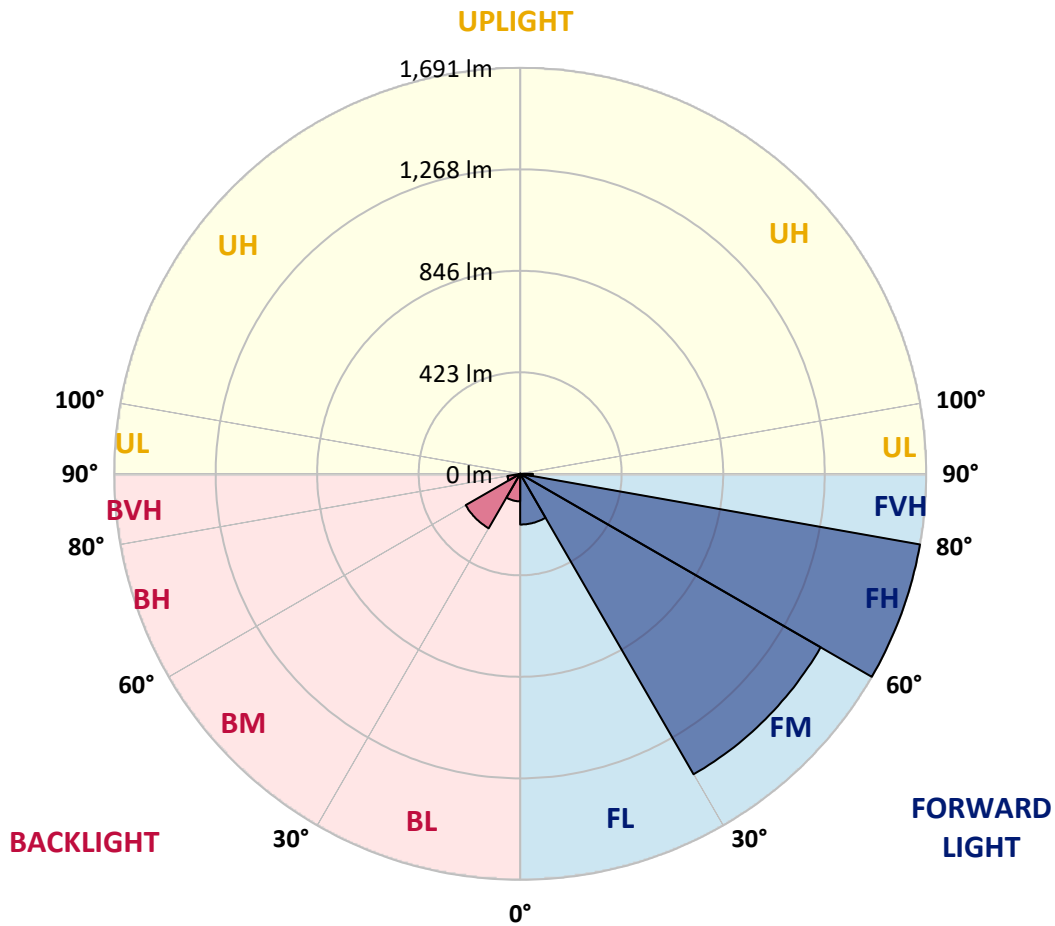
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.2	5.5			
FM (30°-60°)	1445.0	37.7			
FH (60°-80°)	1691.1	44.1			G1/1800
FVH (80°-90°)	53.3	1.4			G1/100
BL (0°-30°)	114.6	3.0	B1/500		
BM (30°-60°)	261.8	6.8	B1/1000		
BH (60°-80°)	54.1	1.4	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1

Type IV Short



REPORT NUMBER: P938968
 CATALOG NUMBER: GALN-SB1B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4
2.5°	530.7	535.2	536.0	537.4	537.4	539.1	541.9	545.8	552.3	555.7
5°	489.1	492.5	496.7	500.1	506.5	507.4	518.3	529.0	543.9	555.1
7.5°	447.3	451.2	456.8	465.0	473.4	475.9	492.5	510.5	534.0	555.1
10°	417.8	418.1	423.1	431.3	444.8	447.8	468.1	493.6	523.1	551.7
12.5°	401.2	403.2	405.4	411.6	424.5	426.5	448.1	478.2	512.1	549.8
15°	401.2	402.6	404.0	407.1	417.5	419.2	438.3	468.3	506.5	550.6
17.5°	405.4	407.7	406.6	410.2	421.2	422.3	439.1	465.5	506.2	555.9
20°	415.6	417.2	415.0	417.2	428.2	430.4	447.8	470.9	511.0	565.2
22.5°	431.6	432.4	427.1	428.8	440.0	442.8	463.0	486.0	522.5	580.1
25°	451.8	453.5	445.3	447.3	458.0	461.3	484.6	508.8	540.8	600.6
27.5°	475.1	475.9	468.9	468.6	482.4	487.2	510.7	536.9	565.2	626.4
30°	501.8	504.3	497.5	496.4	513.8	517.8	541.1	571.4	601.2	665.2
32.5°	522.8	524.8	520.8	523.7	541.3	544.4	577.8	620.2	657.6	720.2
35°	553.1	554.3	545.3	550.3	570.5	578.4	628.1	688.8	728.6	789.3
37.5°	662.9	662.9	624.7	599.7	619.1	626.1	696.9	775.0	816.2	881.9
40°	814.8	812.3	756.4	705.3	702.8	716.6	794.9	883.6	929.4	993.1
42.5°	976.8	972.9	896.8	846.3	837.9	842.6	908.0	1017.6	1064.2	1128.7
45°	1120.6	1119.5	1049.8	981.9	966.7	981.9	1049.3	1174.2	1207.6	1275.6
47.5°	1241.1	1241.1	1190.2	1145.9	1138.0	1147.0	1240.5	1348.0	1344.9	1432.0
50°	1379.8	1378.6	1330.3	1311.2	1319.4	1332.0	1460.6	1531.1	1487.0	1585.6
52.5°	1476.9	1483.6	1467.1	1464.0	1505.5	1527.4	1684.1	1710.2	1614.2	1731.3
55°	1553.8	1561.7	1580.8	1602.4	1682.4	1711.1	1900.6	1880.1	1720.6	1857.6
57.5°	1662.8	1651.6	1681.0	1723.7	1853.2	1887.7	2110.4	2040.4	1806.3	1960.1
60°	1795.0	1796.7	1801.8	1855.7	2023.6	2068.0	2317.0	2192.1	1861.3	2023.0
62.5°	1954.0	1956.5	1966.9	2049.7	2252.4	2294.3	2537.1	2316.2	1886.6	2005.3
65°	1943.0	1953.7	2069.6	2352.9	2600.3	2641.6	2794.1	2403.2	1848.4	1843.6
67.5°	1770.0	1787.5	1981.5	2715.2	3124.8	3170.9	3104.6	2420.3	1683.6	1433.7
70°	1543.2	1549.4	1782.7	3040.9	3732.1	3778.8	3382.6	2231.9	1277.6	799.7
72.5°	1205.1	1206.5	1480.3	3116.4	4061.8	4064.3	3164.4	1656.9	687.1	307.2
75°	860.9	852.5	991.4	2527.3	3573.5	3602.1	2372.3	777.2	262.5	145.2
77.5°	461.6	470.9	561.0	1498.8	2468.6	2517.5	1294.4	224.1	133.7	98.8
80°	142.6	150.5	230.0	686.2	1398.3	1427.8	479.9	99.7	93.2	70.5
82.5°	44.9	46.6	107.3	288.4	580.4	593.9	139.0	56.4	63.7	46.6
85°	12.9	13.2	47.7	107.5	143.5	146.3	39.0	21.9	36.5	28.9
87.5°	1.4	4.5	18.0	18.0	12.6	12.4	4.2	4.8	10.4	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938968

CATALOG NUMBER: GALN-SB1B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
555.4	0°	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4	555.4
557.9	2.5°	556.5	556.8	553.1	547.0	540.2	534.6	527.6	522.0	518.0	516.9
563.0	5°	560.4	558.5	548.1	529.3	506.8	487.4	465.8	448.7	437.5	432.7
568.3	7.5°	566.3	560.7	538.0	500.9	458.0	419.8	381.0	351.0	331.9	322.3
573.4	10°	571.4	560.2	521.1	459.9	394.2	336.4	284.2	247.9	227.7	218.2
579.3	12.5°	576.2	559.9	499.2	411.3	322.3	251.6	203.0	185.0	179.4	177.5
588.8	15°	585.1	560.7	471.7	355.7	250.7	190.1	172.4	172.1	173.2	172.7
603.4	17.5°	597.5	561.6	440.5	296.8	193.5	167.6	166.8	169.3	171.0	170.2
621.6	20°	613.5	564.9	407.4	238.4	166.2	162.0	164.0	166.2	167.6	166.2
646.1	22.5°	636.0	570.8	371.2	191.5	157.5	158.6	160.3	162.9	164.3	162.3
677.2	25°	663.5	580.1	335.5	166.5	153.3	154.7	157.2	160.0	161.7	159.8
716.6	27.5°	699.1	595.0	302.7	160.9	149.1	149.9	153.6	157.8	160.0	157.5
772.4	30°	750.8	619.4	274.3	163.4	146.6	144.6	149.7	155.6	158.1	155.8
848.5	32.5°	819.3	653.9	256.9	167.3	145.4	138.4	143.2	150.8	155.0	153.6
947.9	35°	909.2	706.4	250.2	171.8	144.6	132.0	135.3	143.5	150.8	152.2
1073.1	37.5°	1018.1	779.4	252.1	173.8	142.1	126.6	128.3	135.3	144.9	149.4
1214.1	40°	1141.9	864.5	263.4	171.8	139.3	122.1	122.4	127.8	136.2	142.9
1365.7	42.5°	1269.7	963.9	284.2	164.5	136.7	118.2	117.4	121.0	126.6	131.4
1517.1	45°	1391.3	1066.1	304.6	154.4	133.7	114.3	112.3	113.7	114.8	116.8
1664.5	47.5°	1497.4	1138.0	298.8	145.2	129.4	109.8	106.4	105.9	102.5	102.2
1796.2	50°	1570.7	1153.7	265.3	135.9	123.3	104.7	99.4	96.0	90.1	87.3
1894.7	52.5°	1594.0	1091.7	216.8	126.6	113.2	98.0	90.4	85.1	77.8	75.2
1951.4	55°	1563.1	970.1	173.2	115.4	99.1	89.0	80.6	73.6	67.7	64.6
1957.6	57.5°	1487.6	815.4	137.0	102.2	84.2	78.9	70.5	63.5	58.4	55.3
1889.1	60°	1362.4	647.5	108.4	86.5	71.9	67.9	59.2	54.8	50.3	46.6
1712.2	62.5°	1172.3	462.2	85.1	68.5	60.1	55.6	50.5	47.2	41.8	36.8
1394.1	65°	914.8	282.7	65.7	50.3	48.3	46.0	43.0	39.9	33.4	28.4
909.5	67.5°	577.0	133.9	46.9	37.9	38.2	37.1	35.7	33.1	28.4	23.9
407.4	70°	254.1	64.9	30.9	28.9	28.4	28.4	29.5	28.6	24.1	19.9
141.5	72.5°	86.5	34.8	23.0	21.9	20.5	20.2	24.7	23.9	19.4	15.4
70.5	75°	45.2	23.3	16.8	15.7	12.4	14.9	19.7	18.5	13.8	10.1
46.6	77.5°	29.5	16.6	11.5	10.1	7.0	9.8	14.6	12.9	8.1	5.1
30.6	80°	18.5	11.0	6.7	4.8	3.4	5.3	7.9	5.6	3.1	1.1
18.0	82.5°	9.8	5.6	2.5	1.7	1.4	1.7	2.0	1.4	0.6	0.0
9.3	85°	3.9	2.0	0.8	0.6	0.3	0.0	0.6	0.3	0.0	0.0
1.7	87.5°	1.4	0.3	0.0	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

<u>180°</u>
555.4
518.9
434.4
323.7
218.4
176.9
172.4
169.9
165.9
162.0
159.5
157.5
155.6
153.6
152.2
150.5
145.2
133.4
117.9
101.9
87.6
75.0
64.6
54.8
45.8
35.9
27.5
23.3
19.1
14.6
9.3
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