

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: P945362

Luminaire Tested: **GALN-SB1B-830-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
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-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4076 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

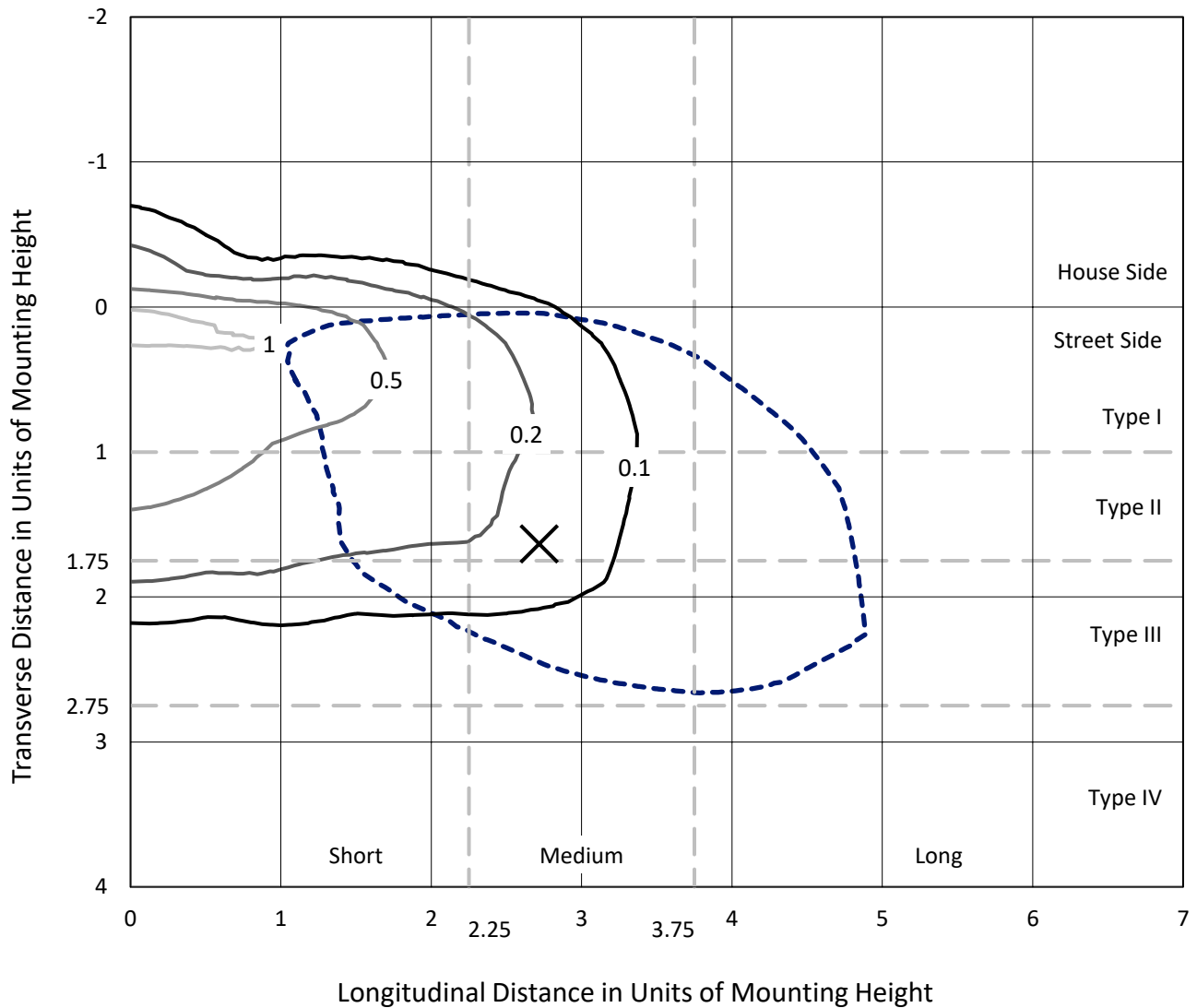
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

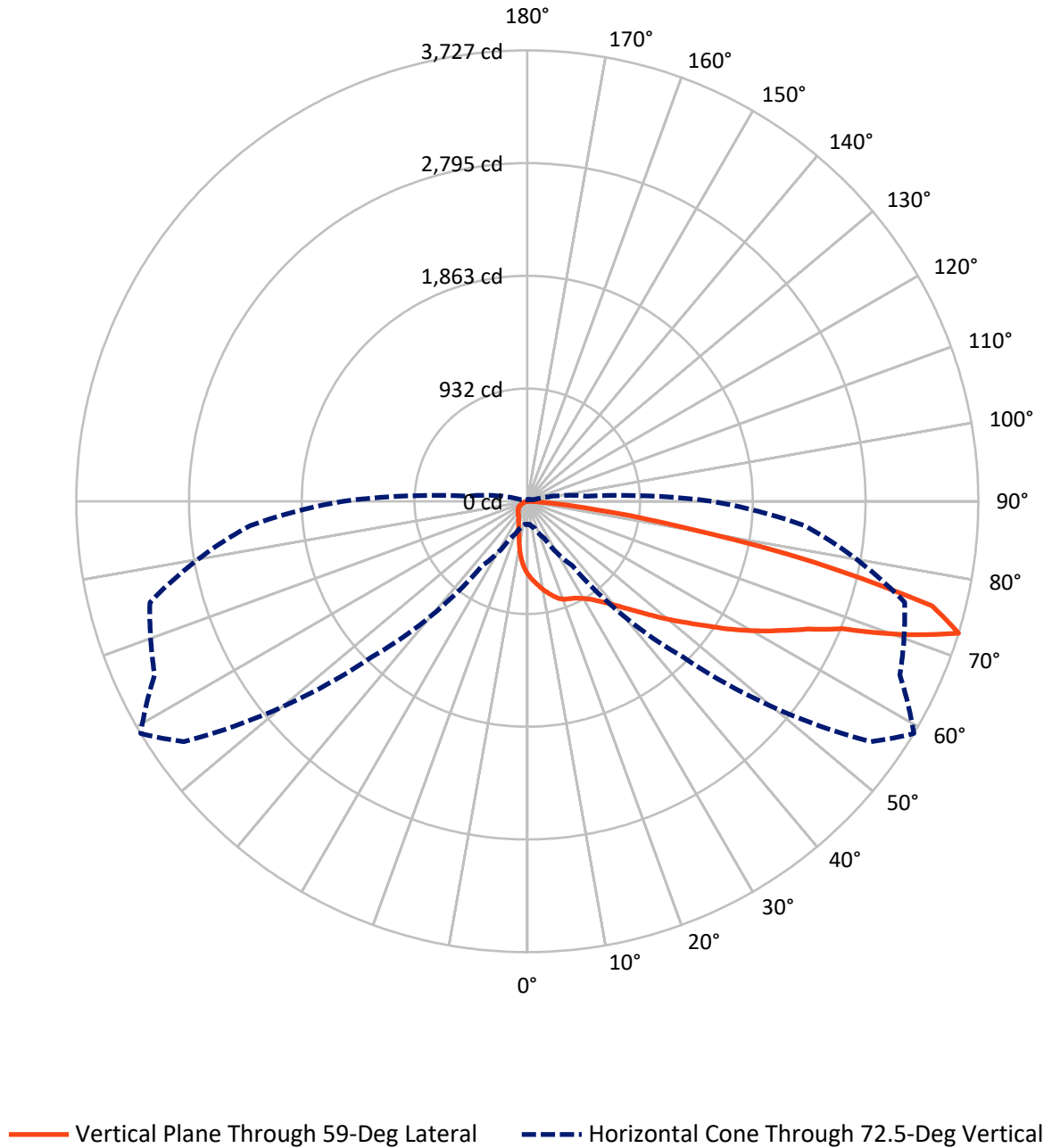
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	430.5	0.0	430.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3645.5	0.0	3645.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	4076.0	0.0	4076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.3
10°-20°	144.8	3.6
20°-30°	229.6	5.6
30°-40°	368.4	9.0
40°-50°	588.4	14.4
50°-60°	851.9	20.9
60°-70°	1011.0	24.8
70°-80°	750.5	18.4
80°-90°	76.7	1.9
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°	4076.0	100.0
0°-180°	4076.0	100.0

Coefficient of Utilization



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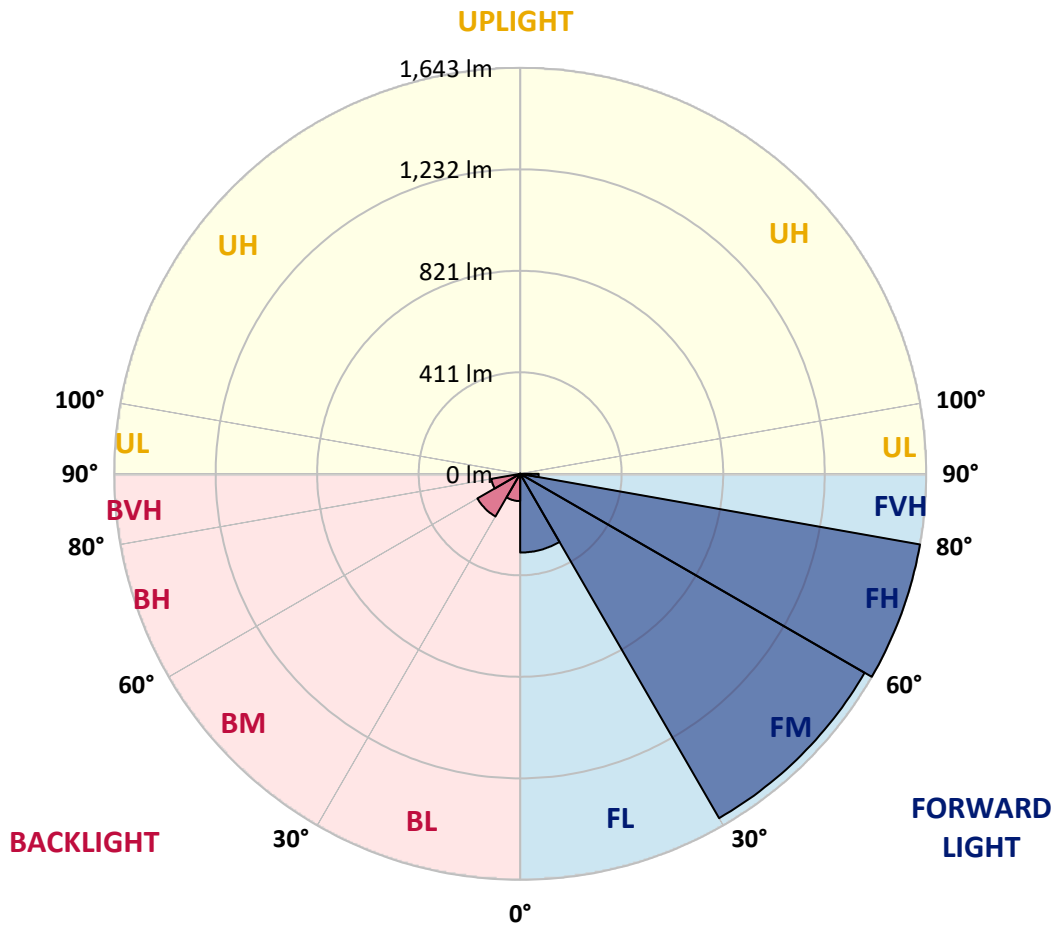
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.7	7.8			
FM (30°-60°)	1609.1	39.5			
FH (60°-80°)	1642.9	40.3			G1/1800
FVH (80°-90°)	74.8	1.8			G1/100
BL (0°-30°)	110.3	2.7	B1/500		
BM (30°-60°)	199.6	4.9	B0/220		
BH (60°-80°)	118.7	2.9	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
2.5°	668.7	665.0	665.5	659.2	654.6	649.8	640.5	639.2	632.5	620.8
5°	727.0	724.6	722.5	715.3	706.0	694.3	678.6	673.0	660.8	640.5
7.5°	769.6	766.7	767.7	760.5	753.1	740.1	718.5	708.1	691.9	661.0
10°	777.8	776.2	783.2	785.8	785.8	777.6	756.6	746.2	722.5	683.1
12.5°	731.5	731.8	749.1	769.9	797.0	804.7	790.6	779.4	756.0	706.5
15°	677.5	677.8	694.6	721.2	765.6	810.0	821.2	814.0	789.8	731.8
17.5°	645.1	643.7	654.9	676.7	723.3	785.8	839.8	844.6	824.9	759.7
20°	640.5	638.1	644.0	654.9	688.2	755.5	842.0	864.6	861.1	791.4
22.5°	668.2	664.5	661.3	661.8	675.9	730.2	836.7	875.8	898.4	829.5
25°	723.0	717.2	706.8	693.5	690.6	724.9	832.9	888.0	933.0	878.2
27.5°	790.1	781.8	761.9	741.9	724.9	739.8	840.6	907.4	972.1	934.9
30°	863.8	853.7	833.7	795.9	768.8	773.1	859.0	933.0	1022.1	999.0
32.5°	972.1	948.7	913.8	856.1	820.2	809.0	886.7	965.5	1084.1	1084.4
35°	1065.0	1051.9	1016.8	945.0	871.3	856.6	923.1	1011.2	1170.1	1197.5
37.5°	1125.9	1108.1	1077.2	1023.2	950.6	905.6	971.8	1067.4	1261.1	1326.3
40°	1194.0	1176.5	1135.5	1084.7	1042.6	989.7	1033.3	1132.0	1360.9	1458.6
42.5°	1276.3	1253.4	1205.0	1150.1	1106.2	1100.4	1113.7	1212.7	1463.3	1602.3
45°	1372.9	1351.3	1295.7	1226.5	1187.9	1177.5	1214.8	1306.6	1577.5	1759.8
47.5°	1463.3	1438.3	1378.5	1315.4	1272.5	1239.8	1322.3	1417.6	1706.8	1924.5
50°	1540.3	1514.7	1459.9	1392.6	1363.6	1320.7	1428.0	1541.3	1835.1	2091.9
52.5°	1592.9	1570.3	1505.9	1460.2	1440.5	1418.9	1551.7	1672.5	1962.8	2245.2
55°	1581.0	1560.7	1504.1	1500.9	1499.5	1522.2	1699.7	1821.3	2093.0	2390.2
57.5°	1542.9	1520.0	1449.2	1497.9	1545.0	1614.2	1859.9	1997.2	2235.6	2527.0
60°	1430.9	1422.9	1379.8	1492.4	1564.2	1704.4	2042.9	2173.9	2390.0	2647.3
62.5°	1193.8	1200.7	1200.4	1504.1	1598.8	1807.2	2209.3	2352.7	2540.8	2763.0
65°	893.9	917.8	948.4	1398.7	1645.1	1990.5	2408.0	2546.7	2694.1	2897.7
67.5°	600.6	619.8	640.5	1147.5	1507.3	2183.2	2738.3	2812.5	2877.7	3047.0
70°	343.8	349.9	378.9	716.6	1161.8	2130.0	3276.1	3303.0	3151.6	3230.9
72.5°	192.7	190.5	228.9	340.1	649.3	1823.9	3464.5	3726.6	3396.7	3227.9
75°	128.8	129.1	157.5	214.5	253.1	1276.8	2985.5	3455.5	3249.8	2862.3
77.5°	87.8	90.7	115.8	165.8	117.1	623.0	1975.1	2420.6	2631.0	2210.3
80°	38.1	38.3	76.4	119.0	79.0	198.3	1024.0	1296.8	1650.2	1241.1
82.5°	19.7	22.4	48.7	76.9	49.8	69.5	483.8	566.6	692.4	364.3
85°	6.9	8.2	30.1	37.8	25.0	24.7	168.4	171.6	146.6	54.8
87.5°	0.0	1.3	11.7	9.3	3.2	2.9	20.0	16.8	13.3	7.7
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°
602.7	0°	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
608.9	2.5°	603.3	596.1	584.4	570.0	553.2	544.2	531.2	523.2	516.0	516.3
617.1	5°	604.1	592.1	562.3	530.6	495.5	469.7	440.9	420.7	405.3	401.6
625.6	7.5°	606.5	586.2	537.5	484.9	426.3	382.9	343.3	318.3	304.2	300.4
634.4	10°	609.7	579.9	509.6	429.0	356.3	304.2	271.2	255.2	248.8	244.0
645.6	12.5°	612.3	573.2	474.5	371.2	294.1	253.3	228.3	215.0	209.4	206.0
658.6	15°	616.8	564.4	436.4	317.5	252.0	218.7	195.1	185.2	183.6	184.1
673.0	17.5°	621.4	555.9	393.8	275.4	221.1	188.4	174.0	172.4	174.6	176.7
689.5	20°	626.4	543.7	350.7	243.8	192.7	167.4	163.7	164.7	165.8	169.5
712.1	22.5°	633.9	528.2	312.9	216.9	169.0	157.3	155.4	156.2	157.0	160.7
741.9	25°	644.5	511.7	282.3	192.1	154.1	149.0	147.2	147.2	148.2	151.7
776.5	27.5°	655.7	488.3	257.6	169.2	145.3	140.0	136.8	136.8	138.1	142.1
819.9	30°	668.2	467.0	238.2	152.2	137.8	130.9	126.7	125.6	127.2	132.3
882.7	32.5°	690.8	453.2	224.3	144.2	131.2	122.7	116.8	113.9	115.5	121.3
970.5	35°	725.2	450.0	214.8	140.2	124.8	115.2	107.0	102.5	103.8	109.9
1078.8	37.5°	765.3	456.6	205.4	134.9	118.7	108.0	97.1	91.3	93.4	99.0
1202.6	40°	823.1	484.3	198.3	130.9	112.6	99.5	87.3	81.4	84.9	89.7
1331.4	42.5°	892.8	533.6	196.4	127.2	105.1	90.5	78.2	74.0	76.6	81.2
1461.5	45°	979.3	596.4	204.9	122.4	96.9	81.7	71.1	68.7	69.5	74.0
1584.4	47.5°	1072.2	660.8	228.3	118.2	89.7	74.5	65.5	63.3	62.8	67.1
1696.7	50°	1166.1	718.0	256.0	115.0	84.6	68.7	61.2	58.5	57.2	59.9
1807.7	52.5°	1259.0	763.5	274.1	109.6	79.6	62.8	57.5	53.5	51.1	52.4
1918.1	55°	1353.2	803.4	275.2	101.7	74.8	59.1	53.8	49.2	46.3	46.3
2024.6	57.5°	1441.3	838.5	259.5	91.0	68.1	55.6	48.7	45.0	41.8	40.7
2119.0	60°	1519.2	864.6	233.4	79.0	62.3	51.1	43.6	40.7	36.7	34.6
2203.1	62.5°	1588.7	877.4	197.7	66.8	55.1	45.8	38.9	35.7	30.3	27.7
2288.6	65°	1647.5	864.3	160.5	55.4	49.0	39.9	33.3	30.1	24.2	21.0
2384.6	67.5°	1705.8	804.7	121.3	46.6	42.6	33.5	27.4	24.5	20.2	17.6
2454.6	70°	1713.2	679.4	84.9	39.1	35.4	25.8	22.1	20.2	16.5	14.1
2298.4	72.5°	1525.1	488.8	51.6	31.9	27.7	18.4	17.6	16.0	12.2	10.6
1878.0	75°	1219.1	299.6	30.3	24.0	18.4	13.0	13.0	11.4	8.2	6.9
1296.5	77.5°	842.5	156.7	17.8	15.4	10.9	7.7	8.5	6.9	4.0	3.2
513.6	80°	337.4	59.6	9.6	7.2	5.1	3.5	2.9	1.6	0.8	0.5
105.4	82.5°	67.3	15.7	3.2	1.9	1.9	0.8	0.0	0.0	0.0	0.0
29.0	85°	17.3	3.5	0.8	0.5	0.5	0.0	0.0	0.0	0.0	0.0
9.6	87.5°	5.3	0.0	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>
602.7
522.1
407.2
304.2
247.0
207.8
184.9
177.5
170.6
161.8
153.0
143.7
133.6
122.9
111.8
100.6
90.5
82.0
76.1
69.7
60.9
53.5
46.8
41.0
34.1
27.4
21.0
17.6
13.8
10.4
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