

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: P939165

Luminaire Tested: **GALN-SB1C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7100 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

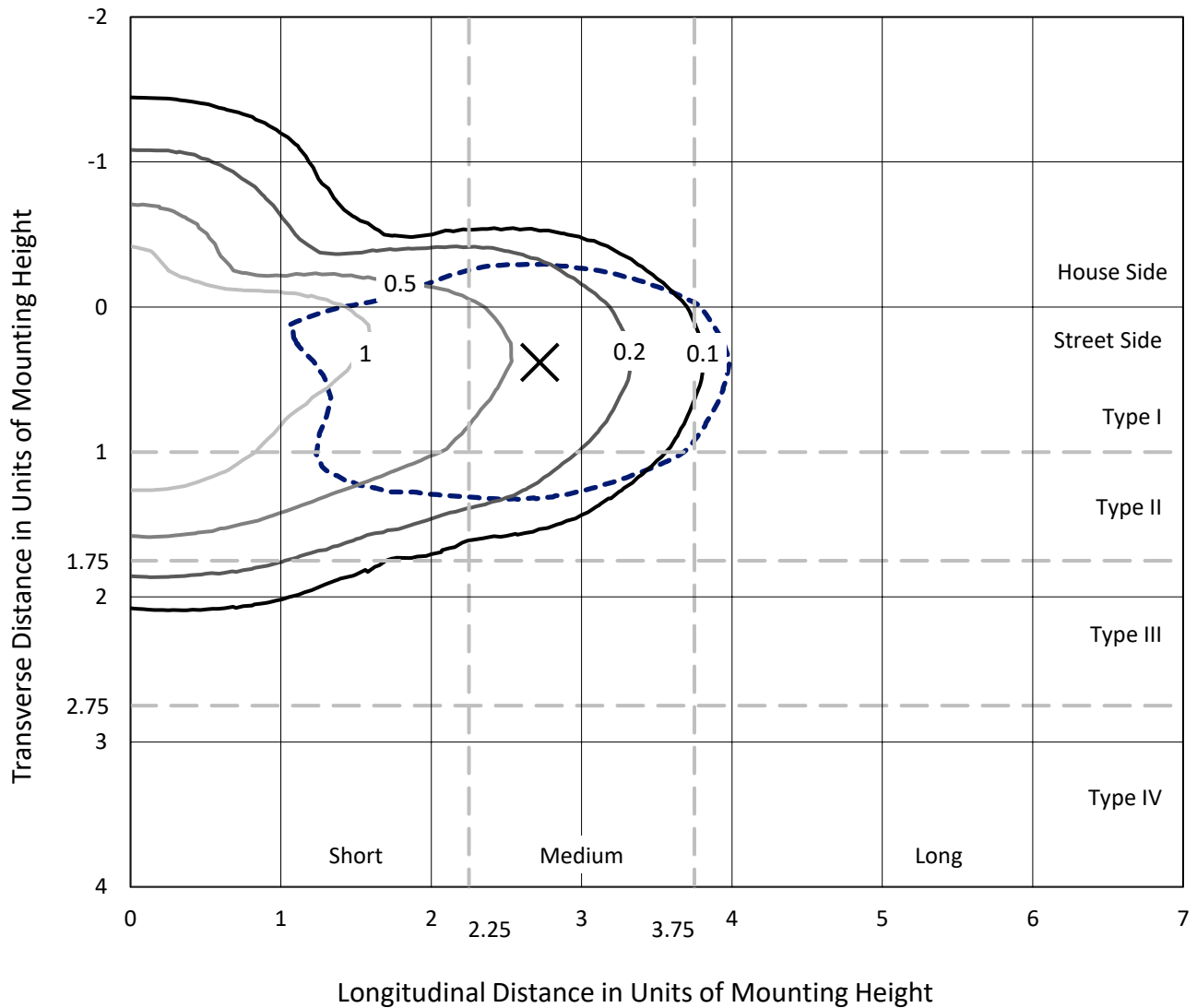
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

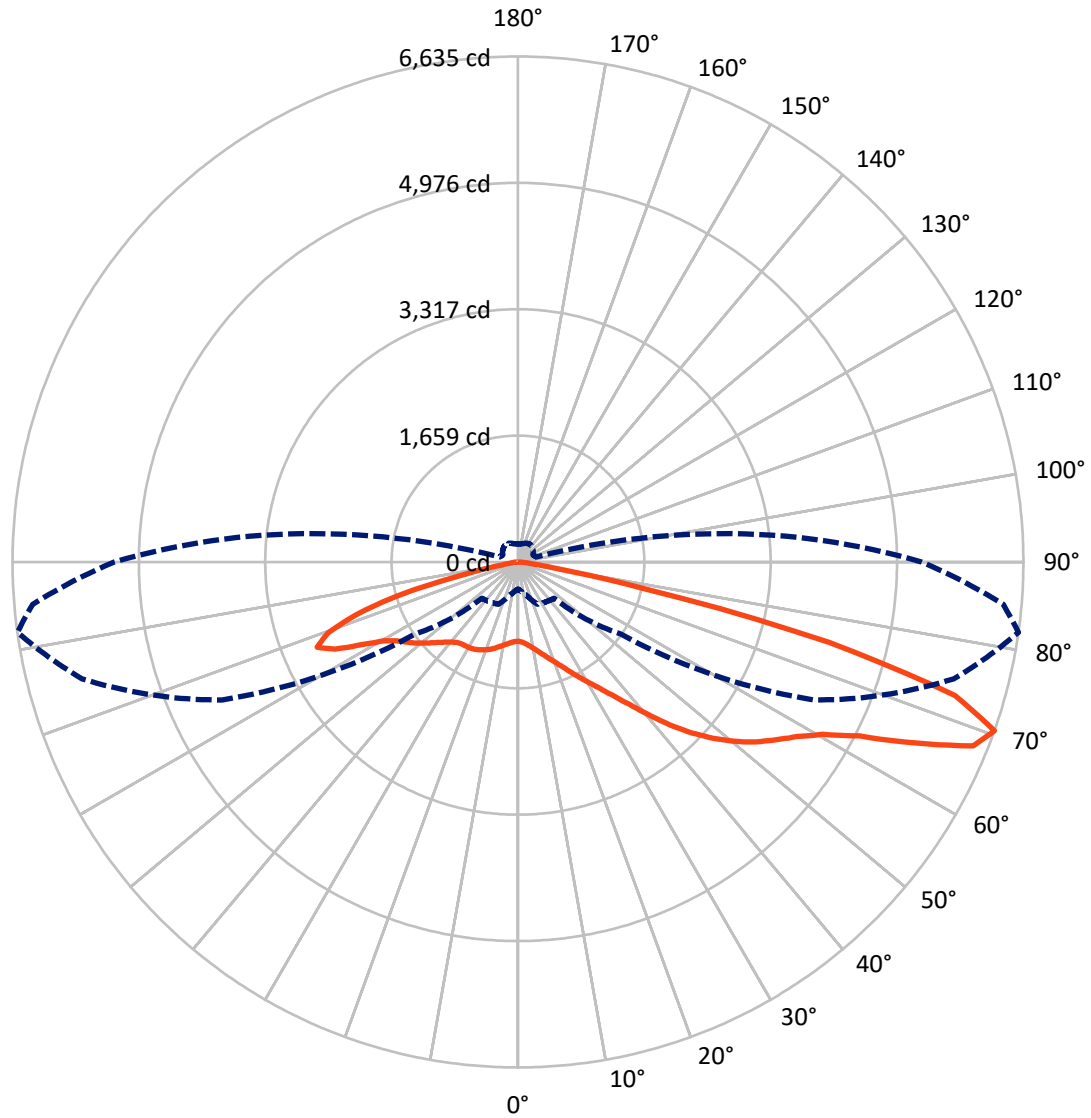
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.3	0.0	1750.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	5349.7	0.0	5349.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	7100.0	0.0	7100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.4
10°-20°	282.4	4.0
20°-30°	472.4	6.7
30°-40°	738.0	10.4
40°-50°	1175.3	16.6
50°-60°	1635.6	23.0
60°-70°	1710.9	24.1
70°-80°	894.2	12.6
80°-90°	92.9	1.3
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°	7100.0	100.0
0°-180°	7100.0	100.0

Coefficient of Utilization



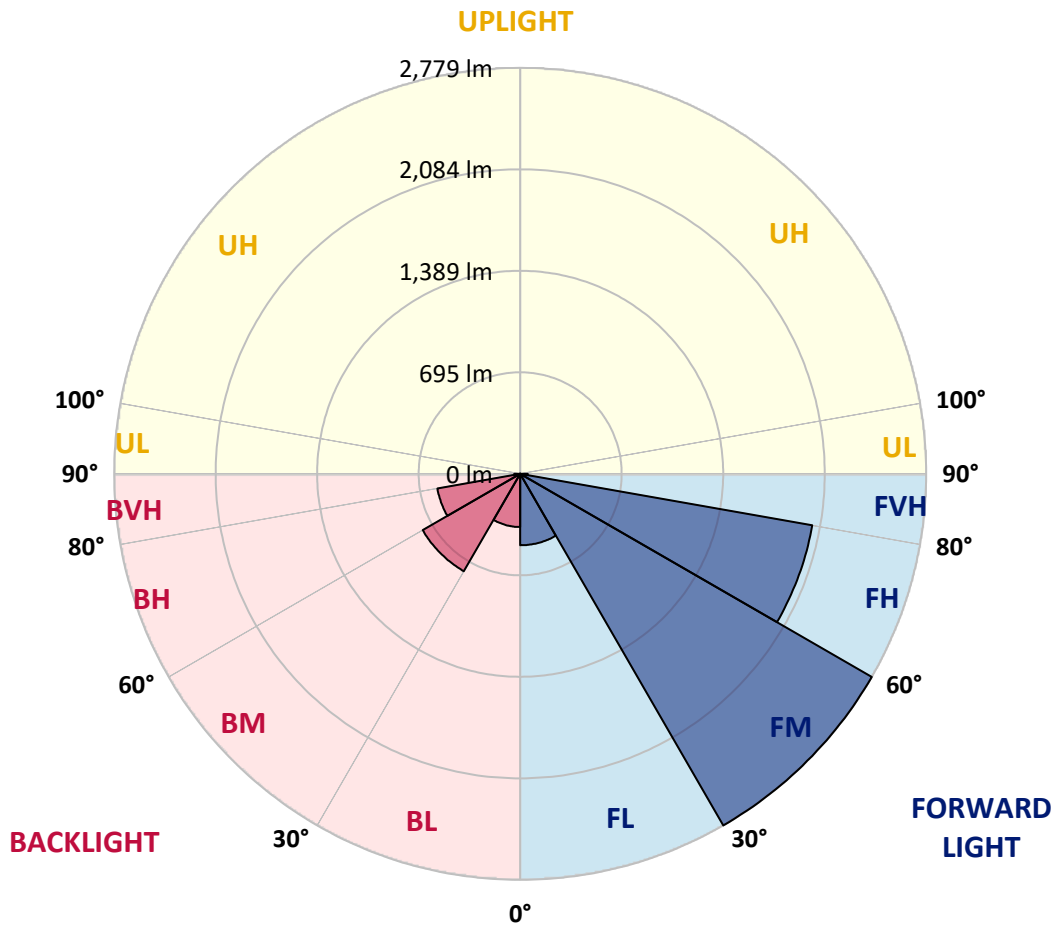
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.9	6.9			
FM (30°-60°)	2778.9	39.1			
FH (60°-80°)	2029.9	28.6			G2/5000
FVH (80°-90°)	52.0	0.7			G1/100
BL (0°-30°)	364.1	5.1	B1/500		
BM (30°-60°)	770.1	10.8	B1/1000		
BH (60°-80°)	575.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	40.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9
2.5°	1065.8	1071.8	1070.0	1068.1	1068.1	1065.4	1065.1	1061.3	1058.3	1053.4
5°	1079.4	1085.8	1085.0	1086.5	1091.4	1092.6	1093.7	1091.4	1085.4	1079.4
7.5°	1067.3	1074.5	1076.7	1085.8	1100.9	1114.4	1124.6	1128.7	1123.1	1114.4
10°	1026.6	1034.5	1042.5	1063.9	1090.7	1122.7	1149.8	1166.0	1164.9	1156.6
12.5°	944.1	952.4	969.4	1011.2	1060.2	1116.7	1167.2	1201.1	1212.7	1206.7
15°	878.2	885.4	898.2	941.1	1004.8	1090.7	1173.6	1239.5	1269.3	1265.9
17.5°	876.3	879.3	887.2	907.6	956.6	1050.0	1166.8	1277.2	1334.1	1333.7
20°	909.5	910.6	915.1	919.3	947.1	1019.1	1149.5	1308.4	1406.8	1406.8
22.5°	955.4	954.7	959.2	955.4	969.0	1016.5	1138.5	1335.9	1487.8	1493.8
25°	1024.4	1020.6	1019.5	1010.8	1013.4	1040.9	1150.6	1367.2	1583.8	1596.3
27.5°	1116.3	1110.3	1106.1	1086.2	1079.4	1091.4	1187.5	1404.9	1690.8	1712.3
30°	1236.1	1225.2	1219.1	1184.5	1160.0	1161.9	1243.3	1455.0	1802.7	1837.4
32.5°	1399.6	1382.7	1366.5	1309.6	1264.7	1250.0	1315.2	1524.3	1924.0	1979.4
35°	1582.7	1569.1	1551.8	1464.0	1395.1	1361.2	1412.4	1621.1	2066.1	2153.9
37.5°	1759.0	1747.3	1755.6	1637.3	1548.4	1499.1	1539.8	1751.1	2241.3	2370.9
40°	1941.4	1932.3	1933.5	1820.4	1716.8	1661.4	1694.2	1914.2	2442.1	2628.9
42.5°	2139.5	2132.8	2110.2	2009.9	1893.5	1841.9	1872.1	2102.6	2657.6	2922.8
45°	2361.4	2357.3	2336.2	2221.3	2087.9	2029.9	2070.6	2310.6	2874.2	3199.3
47.5°	2553.2	2556.6	2554.0	2457.1	2318.9	2233.7	2282.3	2527.6	3075.8	3459.3
50°	2645.5	2663.2	2689.2	2659.1	2573.2	2486.5	2495.9	2737.1	3267.9	3703.0
52.5°	2597.3	2630.8	2701.6	2749.9	2783.0	2764.9	2739.7	2945.0	3448.7	3923.1
55°	2417.6	2464.7	2582.2	2698.6	2867.8	2999.3	3032.4	3175.6	3625.0	4116.7
57.5°	2090.2	2166.7	2272.2	2507.6	2792.4	3112.7	3373.8	3495.4	3811.9	4323.5
60°	1528.8	1631.3	1762.4	2112.8	2528.7	3052.0	3664.2	3986.7	4077.5	4591.4
62.5°	978.4	1041.7	1162.3	1492.3	1970.4	2741.2	3753.1	4600.8	4527.7	5030.7
65°	669.9	710.5	820.9	1006.3	1273.8	2040.5	3515.0	5061.2	5242.8	5726.9
67.5°	486.8	517.6	611.8	774.2	830.0	1207.5	2727.6	5040.1	5937.9	6444.2
70°	354.9	376.7	455.9	611.8	638.6	671.7	1652.4	4284.4	5922.8	6634.9
72.5°	263.0	278.0	331.2	474.7	516.9	453.6	817.9	3113.8	5089.5	6001.2
75°	190.3	201.6	240.7	363.2	413.7	345.5	408.0	1819.7	3550.1	4221.4
77.5°	145.4	154.1	179.7	266.0	331.2	259.2	253.2	837.1	1683.3	1691.6
80°	116.8	122.4	136.4	187.2	253.9	194.0	165.0	337.9	532.0	450.2
82.5°	85.9	95.3	115.3	131.5	181.6	133.7	100.6	170.7	202.3	174.1
85°	49.0	55.4	69.7	94.2	116.0	81.8	57.6	75.7	94.2	77.2
87.5°	17.3	22.6	24.5	36.9	50.5	33.9	22.2	21.9	30.9	23.0
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°
1040.9	0°	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9	1040.9
1052.3	2.5°	1048.5	1046.6	1039.1	1028.9	1018.3	1008.2	1004.8	997.6	992.7	990.1
1076.7	5°	1069.6	1063.6	1045.8	1023.2	999.5	973.9	955.8	939.2	927.2	915.9
1110.3	7.5°	1099.7	1089.2	1058.7	1019.1	976.9	934.3	902.7	878.6	862.4	851.8
1149.5	10°	1134.8	1118.6	1071.8	1012.7	947.5	886.5	849.2	828.5	818.3	812.6
1194.3	12.5°	1175.1	1152.1	1085.4	998.0	902.7	833.0	807.4	801.3	801.7	802.1
1250.8	15°	1224.8	1192.8	1096.3	966.0	844.3	791.9	787.4	797.2	807.4	812.3
1314.8	17.5°	1280.9	1235.7	1098.2	913.2	787.0	765.5	779.9	801.0	816.4	823.2
1386.4	20°	1341.2	1279.4	1084.7	838.6	739.9	744.1	769.7	796.8	813.8	822.4
1468.2	22.5°	1410.2	1326.1	1052.3	760.3	701.5	720.7	750.9	777.2	794.9	803.6
1564.2	25°	1488.9	1378.5	1001.4	694.3	668.3	694.3	724.5	746.3	760.6	768.6
1671.6	27.5°	1576.3	1433.1	933.6	642.0	639.3	667.2	692.1	709.0	716.6	722.6
1785.8	30°	1664.1	1482.9	851.4	602.4	614.1	640.5	658.2	665.7	668.0	669.1
1913.1	32.5°	1759.0	1525.8	765.2	569.6	590.0	614.5	625.0	628.4	617.9	610.7
2067.6	35°	1873.9	1571.8	680.8	543.6	566.2	587.3	590.7	587.7	575.3	560.6
2261.2	37.5°	2016.0	1629.0	613.3	525.2	544.0	558.0	553.8	553.1	554.2	536.9
2494.1	40°	2190.0	1703.6	564.0	510.9	525.9	529.0	517.3	523.7	529.3	503.0
2749.5	42.5°	2383.3	1793.7	532.7	501.1	510.9	503.7	485.6	492.8	492.0	457.4
3006.1	45°	2580.3	1891.6	521.8	493.9	496.9	482.6	462.6	464.5	448.7	417.4
3252.1	47.5°	2776.2	1996.8	528.6	487.9	479.6	463.4	448.0	439.7	416.3	392.9
3487.9	50°	2968.4	2107.1	553.4	475.8	455.9	446.4	435.1	420.4	395.6	375.6
3710.9	52.5°	3146.6	2218.3	581.3	455.9	426.1	431.8	424.6	407.6	383.2	362.8
3921.9	55°	3315.4	2329.4	592.2	428.4	398.2	418.9	414.8	383.5	354.1	337.6
4142.7	57.5°	3499.2	2463.2	580.2	393.3	375.6	404.2	388.4	353.8	336.8	324.4
4430.2	60°	3753.9	2673.0	554.2	350.0	354.1	382.4	355.3	341.0	322.5	308.6
4861.2	62.5°	4177.0	3064.5	512.4	307.0	328.9	350.0	339.4	325.1	306.3	292.7
5598.1	65°	4802.4	3608.5	433.6	273.5	300.6	318.4	322.5	308.2	288.6	274.3
6243.8	67.5°	5329.8	3949.8	328.1	245.6	271.6	292.7	304.4	290.5	269.8	255.8
6394.9	70°	5300.8	3701.9	250.5	218.1	246.0	267.5	282.6	271.6	249.4	236.2
5808.7	72.5°	4708.2	3096.9	202.7	190.3	220.0	241.1	259.2	250.9	228.3	215.5
4255.3	75°	3458.9	2198.3	162.0	162.0	187.6	213.6	233.6	228.3	207.6	198.5
1786.5	77.5°	1458.0	922.3	127.0	134.5	156.0	183.5	208.3	210.2	192.1	203.4
472.4	80°	387.7	254.3	96.8	105.9	122.4	151.5	181.2	180.5	160.9	150.3
175.6	82.5°	147.7	100.2	68.9	74.6	88.5	116.0	143.5	148.1	128.5	111.1
68.9	85°	56.9	42.9	42.6	44.8	51.6	76.9	108.5	112.3	96.8	82.1
19.2	87.5°	14.7	12.8	15.8	15.1	23.7	41.1	62.2	64.4	59.1	34.3
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>
1040.9
993.1
920.4
854.1
814.1
802.8
811.9
824.7
824.7
805.9
770.8
724.9
671.7
613.0
561.4
538.0
503.7
457.0
418.6
392.9
374.1
363.2
336.1
323.2
307.8
292.7
275.0
256.2
237.3
215.5
195.9
184.6
139.8
111.1
84.8
49.0
0.0

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