

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: P940024

Luminaire Tested: **GALN-SB2D-927-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-927-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9045 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

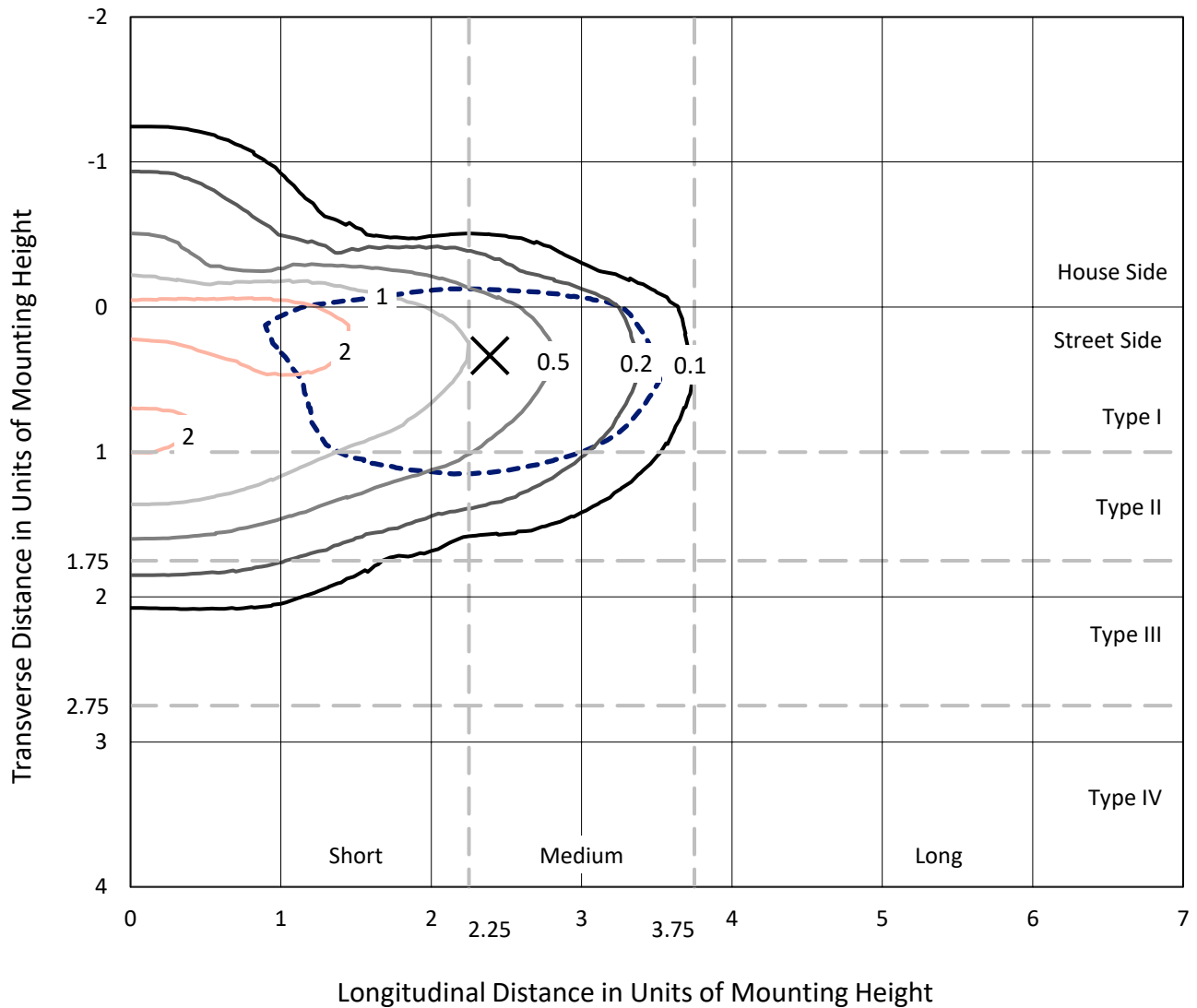
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

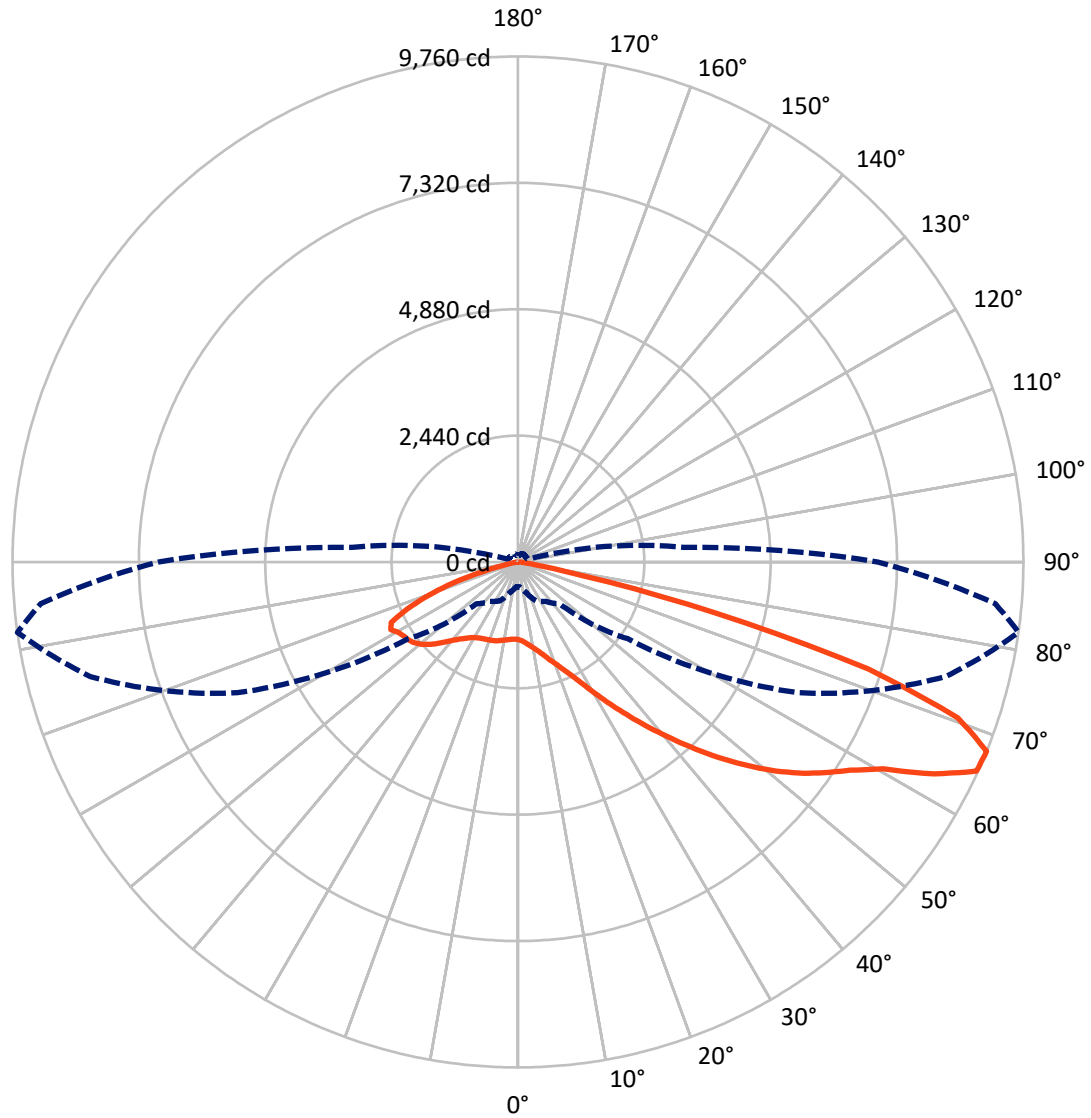
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1638.4	0.0	1638.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7406.6	0.0	7406.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	9045.0	0.0	9045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.5
10°-20°	346.9	3.8
20°-30°	555.6	6.1
30°-40°	982.6	10.9
40°-50°	1721.5	19.0
50°-60°	2296.0	25.4
60°-70°	2137.5	23.6
70°-80°	820.4	9.1
80°-90°	51.0	0.6
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°	9045.0	100.0
0°-180°	9045.0	100.0

Coefficient of Utilization



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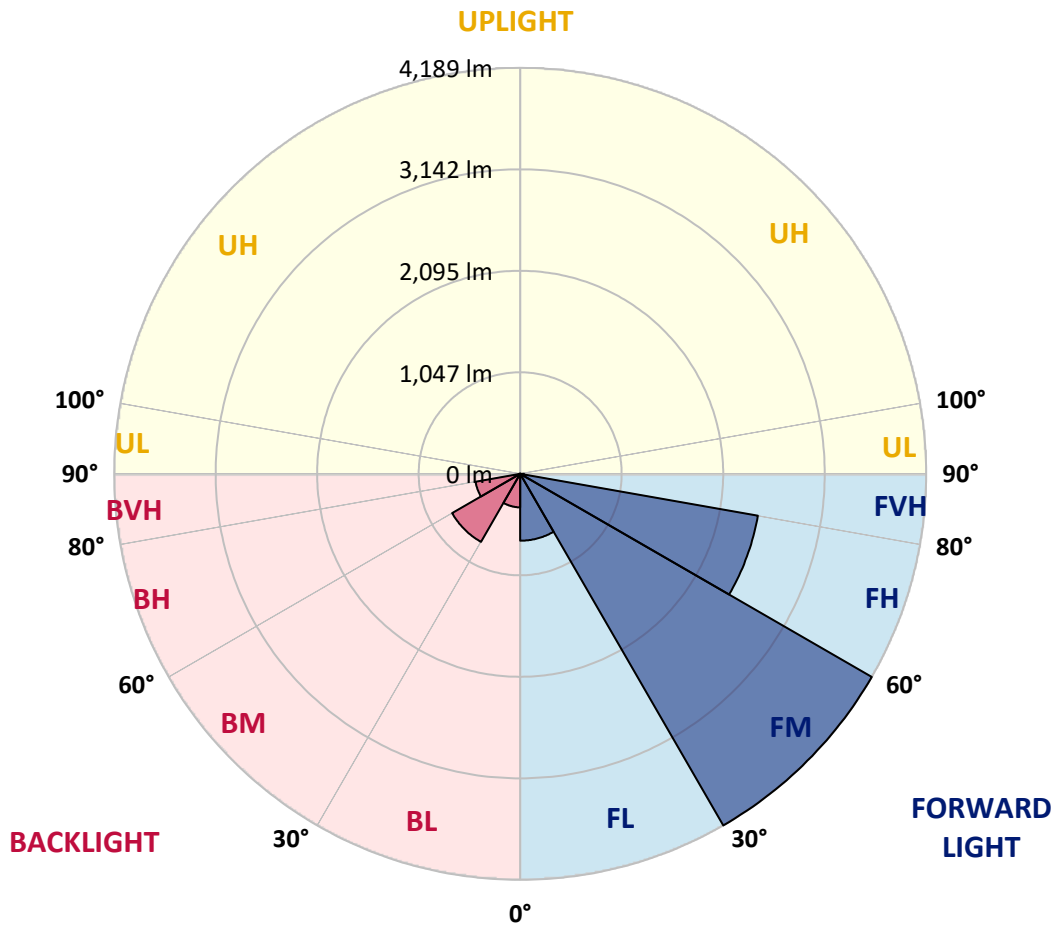
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.0	7.6			
FM (30°-60°)	4189.3	46.3			
FH (60°-80°)	2490.2	27.5			G2/5000
FVH (80°-90°)	37.0	0.4			G1/100
BL (0°-30°)	346.0	3.8	B1/500		
BM (30°-60°)	810.8	9.0	B1/1000		
BH (60°-80°)	467.6	5.2	B1/500		G1/500
BVH (80°-90°)	13.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5
2.5°	1583.8	1592.9	1587.7	1585.1	1580.5	1574.0	1568.8	1552.5	1535.6	1524.5
5°	1615.7	1624.8	1624.1	1626.7	1630.0	1631.9	1630.6	1612.4	1588.3	1569.4
7.5°	1588.3	1598.7	1607.2	1620.2	1643.0	1667.1	1678.8	1674.9	1650.2	1624.1
10°	1510.8	1521.9	1542.1	1572.7	1620.9	1673.0	1716.6	1736.8	1721.2	1692.5
12.5°	1368.9	1379.9	1419.7	1486.1	1566.8	1657.3	1740.7	1794.8	1798.7	1770.0
15°	1209.3	1220.4	1262.7	1346.1	1469.1	1614.4	1753.7	1856.0	1890.5	1865.7
17.5°	1110.3	1120.1	1152.0	1219.1	1347.4	1528.4	1749.2	1921.1	1999.9	1980.4
20°	1080.4	1088.8	1103.8	1150.7	1257.5	1439.2	1719.2	1982.3	2117.8	2106.7
22.5°	1112.3	1120.1	1124.7	1145.5	1212.6	1380.6	1681.4	2044.8	2254.5	2255.8
25°	1185.9	1193.7	1188.5	1201.5	1230.8	1362.3	1667.1	2118.4	2426.4	2440.8
27.5°	1307.0	1307.6	1295.3	1294.6	1299.2	1389.7	1682.1	2197.2	2643.3	2670.0
30°	1549.9	1540.1	1492.6	1441.1	1417.7	1471.8	1723.8	2290.3	2899.2	2946.8
32.5°	1924.3	1910.0	1822.8	1699.7	1575.9	1603.9	1798.7	2396.5	3177.9	3263.9
35°	2330.7	2326.8	2235.6	2052.6	1836.4	1792.1	1920.4	2535.8	3482.1	3618.8
37.5°	2708.4	2706.5	2654.4	2438.8	2175.7	2054.6	2115.8	2718.2	3807.7	4005.6
40°	3053.6	3059.4	3007.3	2814.6	2549.5	2391.3	2381.5	2943.5	4169.7	4427.0
42.5°	3351.8	3358.3	3305.6	3163.0	2918.8	2763.8	2707.8	3219.6	4523.4	4879.6
45°	3554.3	3594.7	3586.9	3472.9	3297.8	3136.9	3099.8	3566.1	4926.5	5359.5
47.5°	3611.6	3648.8	3707.4	3723.0	3616.2	3458.0	3502.2	3983.5	5334.1	5840.1
50°	3470.3	3504.9	3626.6	3788.8	3863.0	3814.2	3893.6	4430.9	5751.5	6319.4
52.5°	3191.6	3226.8	3380.5	3637.0	3939.9	4093.6	4286.3	4871.8	6156.0	6773.3
55°	2788.5	2825.6	3022.9	3313.4	3793.3	4208.8	4613.9	5312.0	6526.5	7181.6
57.5°	2240.2	2267.5	2472.7	2879.0	3424.8	4094.2	4855.5	5792.6	6875.5	7582.8
60°	1460.0	1484.1	1722.5	2175.7	2813.9	3711.3	4903.7	6328.5	7339.2	8104.4
62.5°	971.0	987.2	1128.6	1461.3	1981.7	2976.1	4621.7	6756.4	8019.1	9012.2
65°	666.2	682.5	823.8	1055.6	1280.3	1968.6	3810.9	6699.7	8635.1	9733.1
67.5°	475.4	489.1	608.9	827.7	926.7	1143.5	2583.4	5975.6	8546.6	9760.4
70°	340.6	348.4	447.4	644.7	736.5	687.0	1436.6	4570.2	7483.1	9012.8
72.5°	238.3	241.0	310.6	491.0	593.3	501.4	683.8	3047.0	5659.7	7074.2
75°	161.5	164.8	209.0	360.1	476.0	382.9	362.1	1633.9	3322.5	3915.8
77.5°	99.0	100.3	134.8	246.2	356.2	291.7	233.1	692.2	1285.5	1262.1
80°	56.0	56.0	86.0	153.0	242.9	188.2	163.5	294.4	407.0	357.5
82.5°	31.3	31.9	62.5	95.1	160.9	111.4	89.9	136.1	175.8	155.6
85°	13.0	14.3	38.4	44.9	76.8	55.4	36.5	57.3	65.1	58.0
87.5°	1.3	2.0	11.7	8.5	9.1	11.1	5.2	11.1	9.1	9.1
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°
1498.5	0°	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5	1498.5
1520.6	2.5°	1508.2	1498.5	1473.7	1445.1	1407.3	1389.0	1364.3	1347.4	1333.0	1334.3
1558.4	5°	1537.5	1512.8	1457.4	1388.4	1302.4	1241.2	1176.1	1131.2	1094.7	1086.9
1610.5	7.5°	1577.9	1538.8	1441.8	1317.4	1172.2	1062.1	963.8	900.6	855.7	841.4
1673.6	10°	1630.0	1573.3	1421.6	1228.2	1019.2	879.1	773.6	724.2	693.5	683.1
1747.9	12.5°	1690.6	1613.1	1394.9	1119.4	861.6	726.8	659.7	634.9	625.2	621.9
1839.0	15°	1766.8	1662.6	1354.5	990.5	728.1	633.6	605.0	601.7	603.0	601.7
1948.4	17.5°	1857.3	1716.6	1288.8	857.7	638.2	586.1	575.7	578.3	581.5	580.9
2070.9	20°	1956.3	1770.0	1204.8	739.8	577.0	552.2	546.4	549.0	551.6	550.3
2212.2	22.5°	2068.9	1827.3	1111.6	648.0	536.0	521.0	514.5	515.1	515.1	512.5
2391.3	25°	2203.7	1890.5	1013.9	582.8	504.7	493.0	485.2	482.6	478.6	470.8
2608.8	27.5°	2364.6	1957.6	920.2	537.3	479.9	468.9	459.8	453.2	443.5	430.5
2869.9	30°	2545.6	2039.0	840.7	508.6	460.4	449.3	438.9	429.2	414.8	398.5
3170.1	32.5°	2758.6	2126.2	782.8	489.7	442.8	431.1	418.7	407.0	391.4	375.1
3507.5	35°	3012.5	2231.7	748.9	476.7	429.2	413.5	399.8	386.8	375.1	360.8
3874.1	37.5°	3288.0	2343.7	738.5	470.2	420.0	395.9	380.3	371.2	369.9	361.4
4270.7	40°	3589.5	2476.6	746.3	466.3	410.3	379.0	362.1	360.1	363.4	348.4
4694.6	42.5°	3908.6	2634.2	759.3	461.7	396.6	362.1	345.8	345.8	343.2	322.4
5142.7	45°	4253.7	2815.9	772.3	450.6	380.3	345.1	332.8	328.2	317.1	297.0
5593.3	47.5°	4601.5	3000.8	782.1	430.5	360.8	330.8	319.7	309.3	293.0	274.8
6035.5	50°	4931.7	3166.9	771.7	400.5	338.6	317.1	305.4	291.1	273.5	261.1
6454.2	52.5°	5226.7	3310.8	727.4	365.3	315.2	302.8	292.4	277.4	263.1	250.1
6831.9	55°	5483.2	3427.4	649.3	332.1	294.4	290.4	280.0	261.1	241.6	230.5
7206.4	57.5°	5729.4	3515.9	551.6	304.8	275.5	276.8	261.1	244.2	226.0	214.3
7711.1	60°	6057.0	3634.4	452.6	279.4	255.3	259.2	242.3	229.9	207.1	192.1
8576.5	62.5°	6580.5	3818.7	359.5	248.1	231.8	233.1	226.0	211.0	183.6	166.1
9218.0	65°	6996.0	3751.0	283.3	214.3	205.1	207.1	207.1	190.8	161.5	141.3
9252.5	67.5°	6949.1	3211.8	226.0	181.0	179.7	181.0	185.6	171.9	143.3	127.0
8547.9	70°	6401.5	2554.7	181.0	150.4	156.3	153.0	166.1	156.9	128.9	112.7
6626.8	72.5°	5223.4	1840.3	138.1	124.4	119.8	125.0	149.8	141.3	107.5	89.2
3510.1	75°	3052.3	982.0	102.9	98.3	86.6	104.2	132.8	120.5	82.1	65.8
1075.8	77.5°	993.8	342.5	75.5	72.3	64.5	84.0	113.3	101.6	67.1	52.1
315.2	80°	266.3	103.5	51.4	47.5	41.7	62.5	89.9	80.8	48.2	33.9
135.5	82.5°	106.8	43.6	30.0	26.7	22.8	43.0	71.0	65.1	35.8	21.5
42.3	85°	34.5	14.3	11.1	8.5	10.4	26.7	42.3	44.3	25.4	11.1
6.5	87.5°	4.6	2.0	2.0	2.6	2.0	4.6	13.0	12.4	7.2	1.3
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>
1498.5
1321.3
1069.3
827.0
675.3
620.0
601.1
579.6
549.6
511.2
469.5
429.2
397.2
375.8
359.5
360.8
349.1
322.4
296.3
274.2
259.2
248.8
229.2
212.9
190.2
164.8
139.4
124.4
110.7
87.3
63.8
50.1
33.2
21.5
8.5
0.0
0.0

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