

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: P946713

Luminaire Tested: **GALN-SB2B-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12135 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

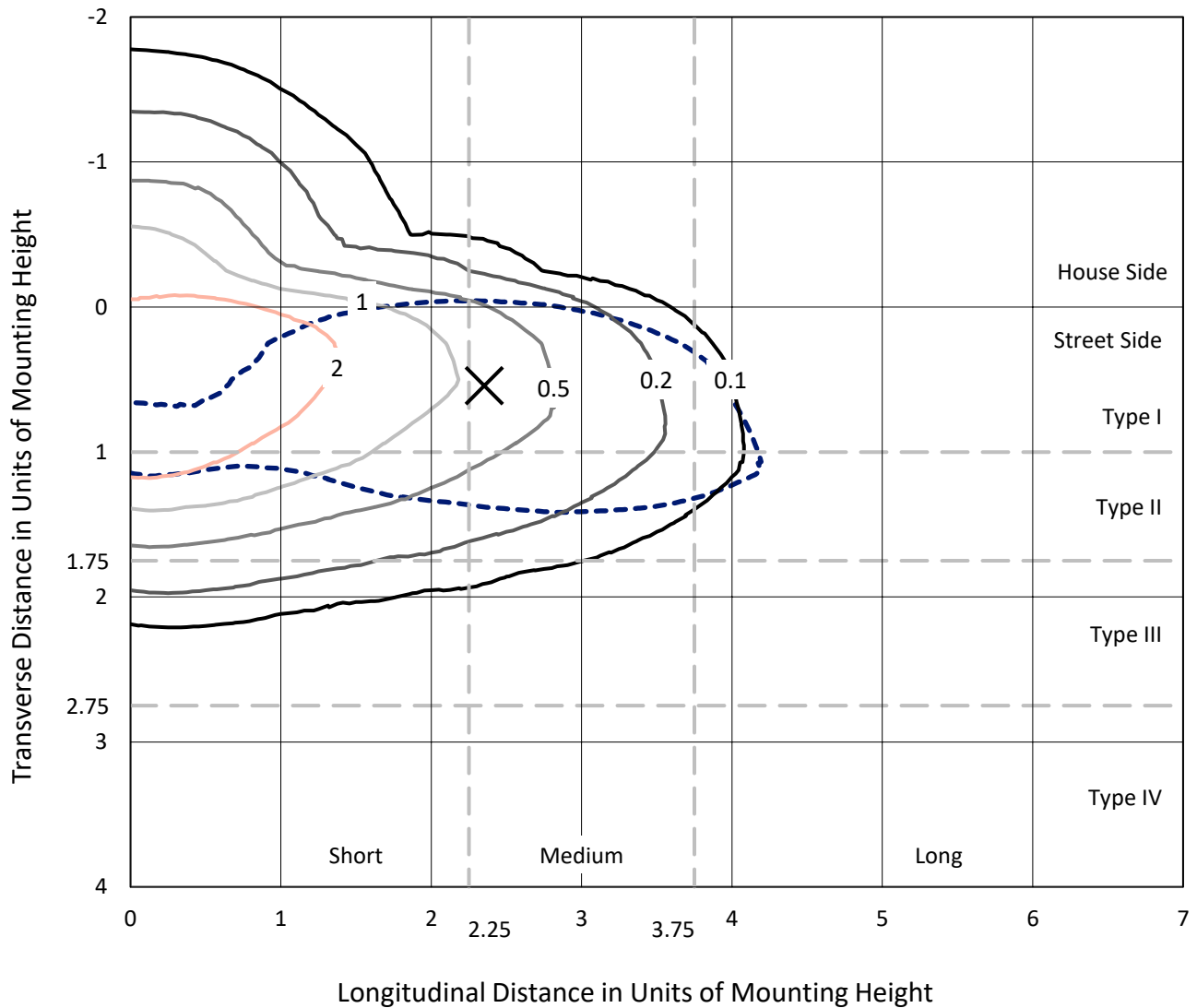
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

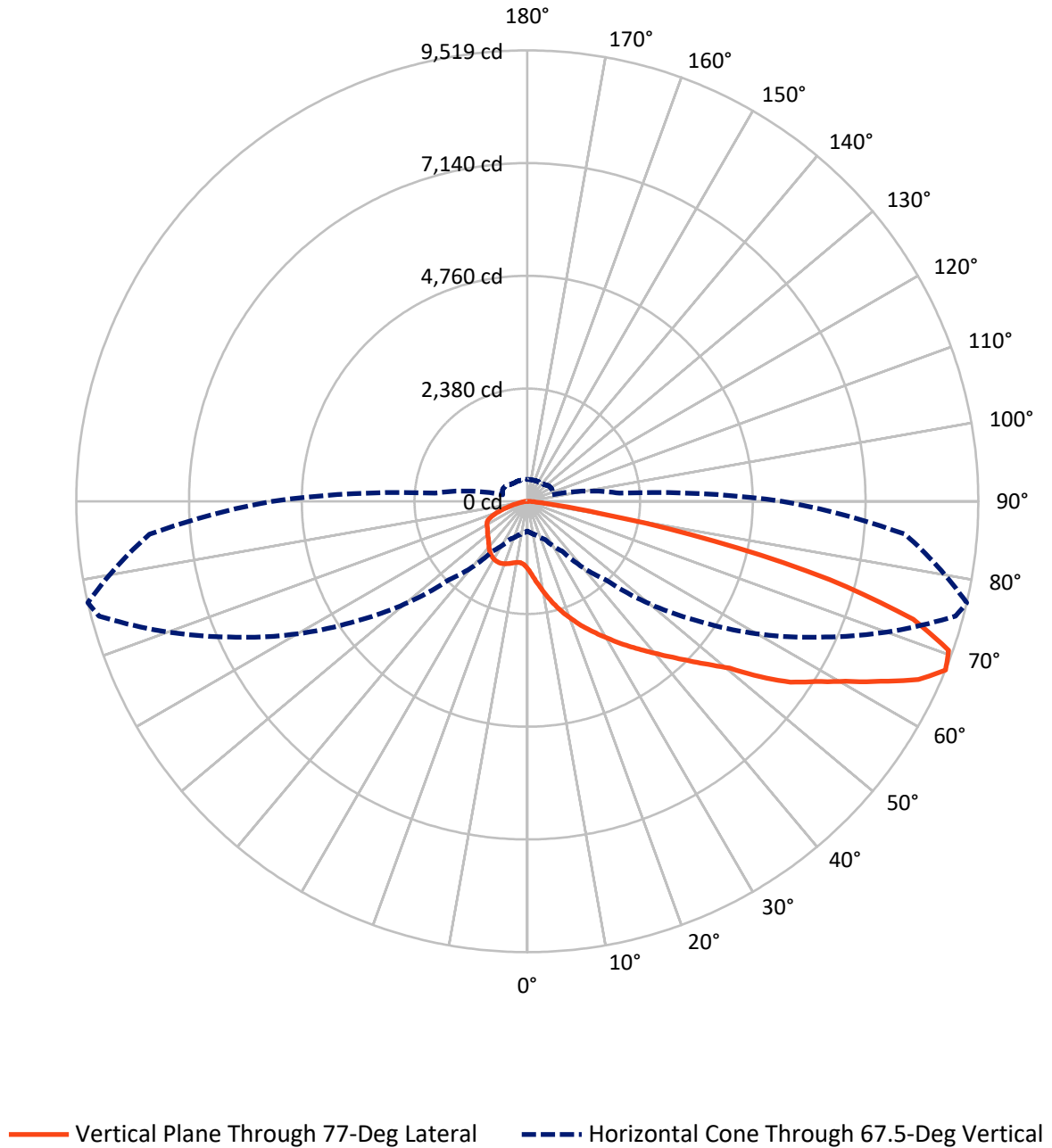
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2295.5	0.0	2295.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	9839.5	0.0	9839.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	12135.0	0.0	12135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	1.3
10°-20°	548.3	4.5
20°-30°	1035.2	8.5
30°-40°	1667.7	13.7
40°-50°	2281.1	18.8
50°-60°	2573.1	21.2
60°-70°	2401.7	19.8
70°-80°	1316.5	10.8
80°-90°	158.8	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°	12135.0	100.0
0°-180°	12135.0	100.0

Coefficient of Utilization



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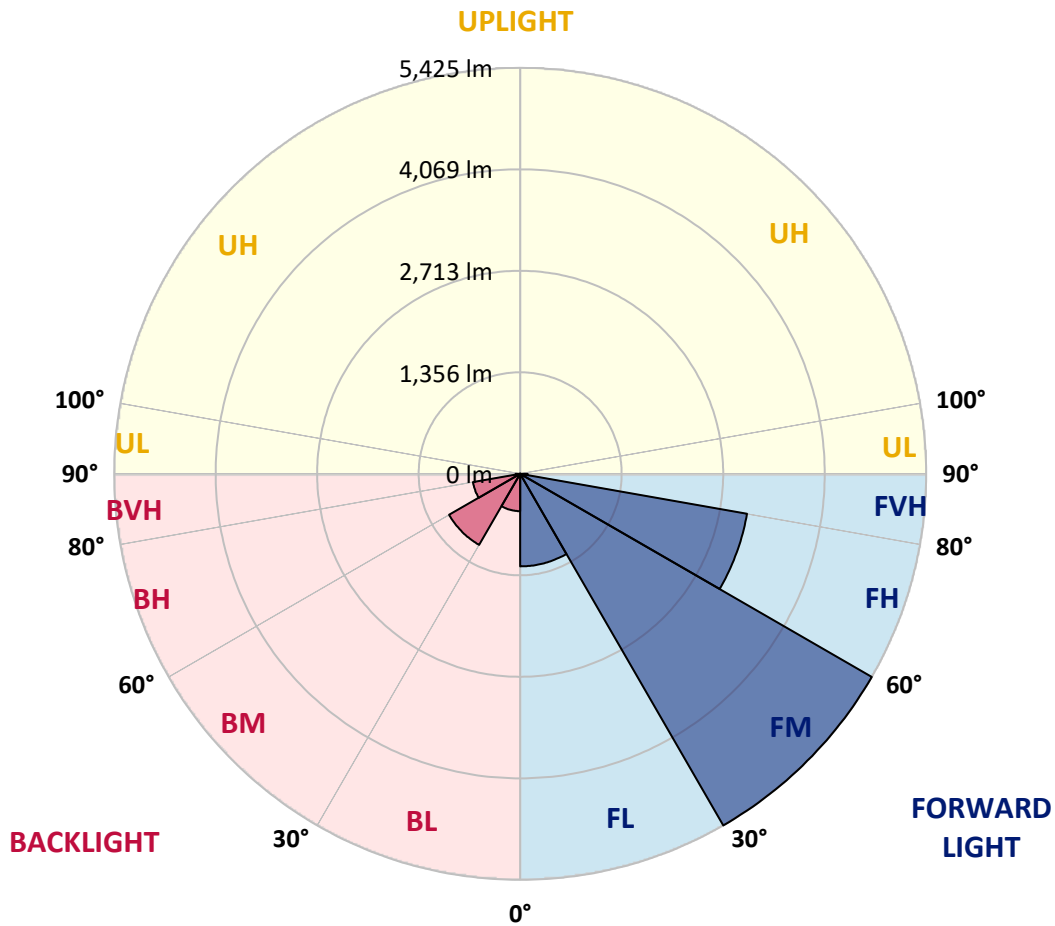
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.0	10.2			
FM (30°-60°)	5425.4	44.7			
FH (60°-80°)	3077.8	25.4			G2/5000
FVH (80°-90°)	99.3	0.8			G1/100
BL (0°-30°)	499.1	4.1	B1/500		
BM (30°-60°)	1096.5	9.0	B2/2500		
BH (60°-80°)	640.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	59.5	0.5			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°	77°
0°	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8
2.5°	1782.7	1795.3	1779.6	1779.6	1727.0	1699.4	1646.8	1606.7	1534.7	1522.2
5°	2107.2	2122.9	2101.0	2091.6	2029.5	1972.5	1884.2	1797.1	1668.7	1655.6
7.5°	2358.4	2378.4	2359.0	2349.0	2293.9	2230.0	2126.6	2005.1	1824.1	1798.4
10°	2563.2	2566.4	2560.1	2563.9	2520.6	2468.0	2362.2	2220.6	1994.5	1959.4
12.5°	2679.1	2693.5	2706.1	2728.6	2721.1	2688.5	2593.3	2424.2	2174.9	2129.8
15°	2733.6	2758.7	2786.9	2838.9	2880.8	2889.0	2816.3	2642.8	2358.4	2303.9
17.5°	2753.0	2776.8	2821.3	2896.5	2986.7	3047.4	3014.9	2855.1	2540.1	2477.4
20°	2851.4	2858.3	2885.2	2956.6	3054.3	3155.2	3179.6	3059.3	2719.8	2649.1
22.5°	3061.9	3048.1	3055.6	3088.2	3158.3	3256.0	3311.8	3239.8	2904.6	2823.2
25°	3409.5	3369.4	3329.3	3291.7	3327.4	3382.6	3445.8	3420.2	3098.2	2994.8
27.5°	3848.6	3799.8	3711.4	3588.0	3544.8	3564.2	3592.4	3587.4	3277.3	3172.7
30°	4280.8	4223.8	4118.6	3940.1	3826.1	3774.7	3753.4	3739.0	3472.1	3360.6
32.5°	4626.0	4580.9	4477.5	4277.7	4112.3	4024.6	3953.9	3902.5	3675.7	3564.2
35°	4927.9	4885.9	4767.5	4549.6	4369.8	4276.4	4183.7	4074.1	3887.5	3774.7
37.5°	5203.5	5161.6	4999.3	4772.6	4591.5	4527.0	4444.3	4258.3	4099.8	3993.3
40°	5377.7	5368.3	5216.7	4959.9	4771.9	4740.0	4712.4	4471.9	4335.3	4236.4
42.5°	5422.1	5442.8	5322.5	5111.4	4932.3	4906.6	4971.1	4713.7	4599.7	4505.1
45°	5315.0	5374.5	5295.6	5152.2	5046.3	5032.5	5200.4	4978.0	4892.2	4805.8
47.5°	5043.8	5144.6	5112.1	5092.0	5077.0	5136.5	5402.1	5258.6	5223.6	5148.4
50°	4496.3	4687.4	4744.4	4870.9	5016.2	5217.3	5585.6	5565.0	5610.7	5534.9
52.5°	3549.8	3812.9	4143.7	4460.6	4829.6	5190.4	5787.3	6004.7	6197.6	6156.3
55°	2930.3	3048.7	3303.0	3884.3	4467.5	5077.0	5878.2	6359.9	6780.2	6743.2
57.5°	2454.2	2560.1	2716.7	3202.2	3920.0	4819.5	5934.5	6576.6	7179.2	7175.4
60°	1943.7	2055.9	2216.2	2560.1	3280.5	4374.8	5922.0	6823.4	7688.5	7719.8
62.5°	1367.4	1490.8	1668.7	1989.5	2627.1	3798.5	5666.4	7001.9	8287.9	8373.1
65°	898.9	980.3	1114.4	1391.2	1957.5	3057.5	5178.5	7025.1	8929.4	9073.4
67.5°	630.2	661.5	740.4	890.7	1290.4	2344.6	4401.1	6785.2	9357.2	9519.4
70°	491.7	507.4	547.5	607.6	810.6	1576.7	3372.6	6161.3	9265.7	9434.9
72.5°	424.7	439.7	454.8	462.3	543.7	973.4	2284.5	5151.5	8404.4	8519.1
75°	385.2	389.0	401.5	399.0	414.7	631.4	1318.6	3753.4	6631.1	6591.6
77.5°	323.9	328.9	349.5	346.4	368.3	431.6	684.7	2422.3	4299.0	4030.9
80°	274.4	276.9	299.4	295.7	320.1	312.6	349.5	1234.6	1823.5	1544.7
82.5°	95.2	117.8	228.6	235.5	244.3	189.2	201.7	503.6	556.9	426.6
85°	46.4	49.5	116.5	165.4	164.7	95.2	98.3	179.8	175.4	137.8
87.5°	7.5	9.4	13.8	64.5	51.4	25.1	33.8	35.1	36.3	31.3
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°
1423.8	0°	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8	1423.8
1474.6	2.5°	1439.5	1408.2	1342.4	1281.6	1234.0	1188.3	1162.6	1140.7	1128.2	1125.6
1543.5	5°	1478.3	1413.8	1294.1	1193.3	1127.5	1078.7	1053.0	1036.7	1028.6	1023.5
1636.2	7.5°	1534.1	1439.5	1269.1	1154.5	1085.6	1050.5	1037.3	1034.8	1034.2	1034.8
1748.3	10°	1611.1	1481.4	1266.6	1145.1	1087.4	1068.0	1067.4	1068.0	1070.5	1071.1
1870.4	12.5°	1694.4	1524.7	1276.6	1153.2	1111.2	1100.6	1098.7	1098.1	1100.0	1101.2
1993.8	15°	1785.2	1581.7	1293.5	1170.7	1137.5	1126.3	1124.4	1120.6	1120.0	1119.4
2123.5	17.5°	1878.6	1638.0	1312.3	1189.5	1154.5	1138.8	1131.9	1123.1	1116.2	1114.4
2257.6	20°	1973.2	1693.8	1325.5	1198.9	1155.7	1133.8	1120.0	1105.0	1093.1	1086.2
2392.9	22.5°	2074.0	1752.0	1333.6	1196.4	1144.4	1114.4	1089.3	1071.8	1053.6	1041.7
2529.4	25°	2172.4	1802.8	1333.0	1183.3	1122.5	1084.3	1052.4	1029.8	1004.7	992.2
2670.4	27.5°	2267.0	1848.5	1317.3	1160.1	1091.2	1048.6	1010.4	983.5	959.0	947.1
2812.5	30°	2364.7	1886.7	1292.9	1126.3	1054.2	1007.3	965.3	942.1	920.2	908.9
2962.9	32.5°	2461.8	1921.8	1258.4	1084.3	1011.6	966.5	925.2	903.9	890.7	890.7
3124.5	35°	2564.5	1946.2	1212.7	1035.4	966.5	923.3	890.7	878.2	877.0	869.4
3295.5	37.5°	2672.9	1961.9	1157.0	985.3	922.1	881.3	871.3	856.3	843.8	827.5
3483.4	40°	2786.9	1977.6	1089.9	933.3	875.1	852.5	848.1	828.1	792.4	752.3
3696.4	42.5°	2925.3	1988.2	1020.4	881.3	825.6	818.1	824.3	789.9	732.9	702.8
3953.2	45°	3085.7	2005.7	956.5	830.0	774.9	774.9	801.2	756.1	709.1	690.3
4246.4	47.5°	3293.6	2046.5	897.0	773.6	727.9	740.4	749.8	715.4	689.0	665.9
4603.4	50°	3594.3	2144.2	835.6	716.6	692.2	717.2	704.1	684.0	653.3	634.5
5171.0	52.5°	3967.6	2201.8	781.1	665.2	661.5	686.5	667.7	649.0	625.8	600.7
5601.3	55°	4222.0	2212.5	735.4	627.7	640.8	638.3	631.4	614.5	602.0	568.8
6026.0	57.5°	4506.3	2233.8	697.8	605.1	627.7	600.1	597.6	583.2	566.9	544.3
6544.0	60°	4846.5	2267.0	665.2	596.3	616.4	575.0	562.5	556.9	540.6	529.3
7167.3	62.5°	5217.3	2297.0	632.0	597.6	603.2	550.6	531.8	529.9	519.9	516.2
7752.4	65°	5470.4	2215.0	590.7	596.3	582.6	525.6	501.7	501.1	493.0	491.7
8006.0	67.5°	5382.0	1955.0	534.9	578.8	561.3	500.5	474.2	471.7	461.0	461.7
7741.1	70°	4939.8	1584.2	457.9	535.6	534.9	477.9	445.4	437.2	422.8	425.3
6730.7	72.5°	4110.5	1173.9	354.5	463.5	493.0	457.3	412.2	399.0	380.9	383.4
4968.6	75°	2968.5	798.0	258.1	352.7	429.1	432.8	379.6	357.0	335.1	338.9
2765.6	77.5°	1519.0	452.3	189.8	243.0	337.0	393.4	350.2	320.1	315.1	350.2
797.4	80°	495.5	226.8	131.5	170.4	221.1	322.0	306.9	272.5	271.2	279.4
167.2	82.5°	147.8	95.8	84.6	112.1	122.1	246.8	265.0	206.1	177.3	186.7
55.7	85°	50.7	46.4	48.2	55.7	58.3	144.7	185.4	136.6	129.0	142.2
12.5	87.5°	11.9	16.3	13.8	12.5	12.5	35.1	72.0	57.0	78.9	52.6
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>
1423.8
1125.6
1022.9
1036.7
1071.8
1101.8
1118.8
1116.2
1088.7
1042.3
992.2
946.5
908.3
891.4
867.6
825.0
746.7
703.4
693.4
665.2
632.7
595.7
569.4
536.8
532.4
516.2
491.1
461.7
427.8
382.7
340.1
345.1
239.9
192.9
140.3
50.7
0.0

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