

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: P951081

Luminaire Tested: **GALN-SB5B-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951081  
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-SB5B-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

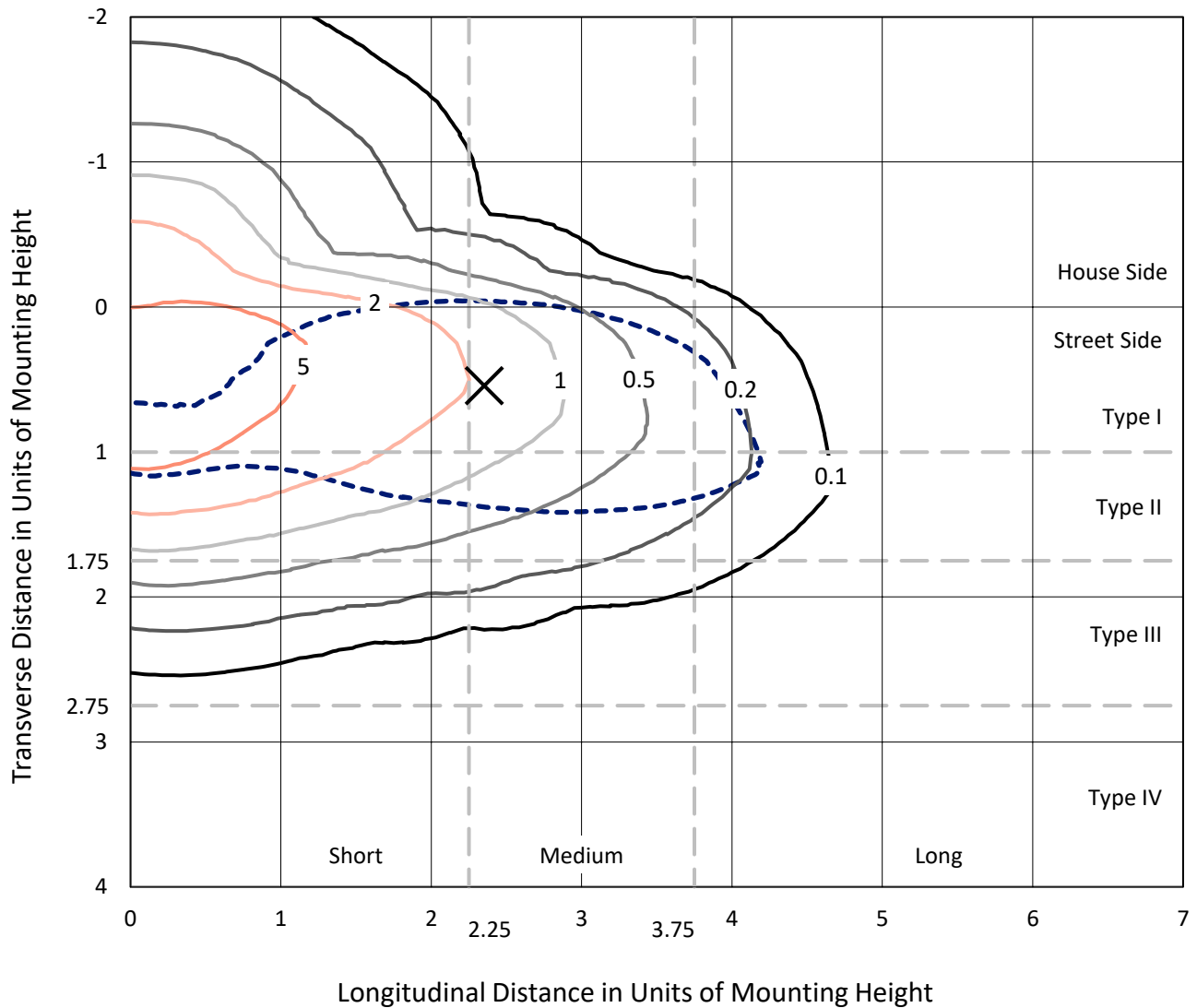
Lumens per Lamp: N/A  
Luminaire Lumens: 26033 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

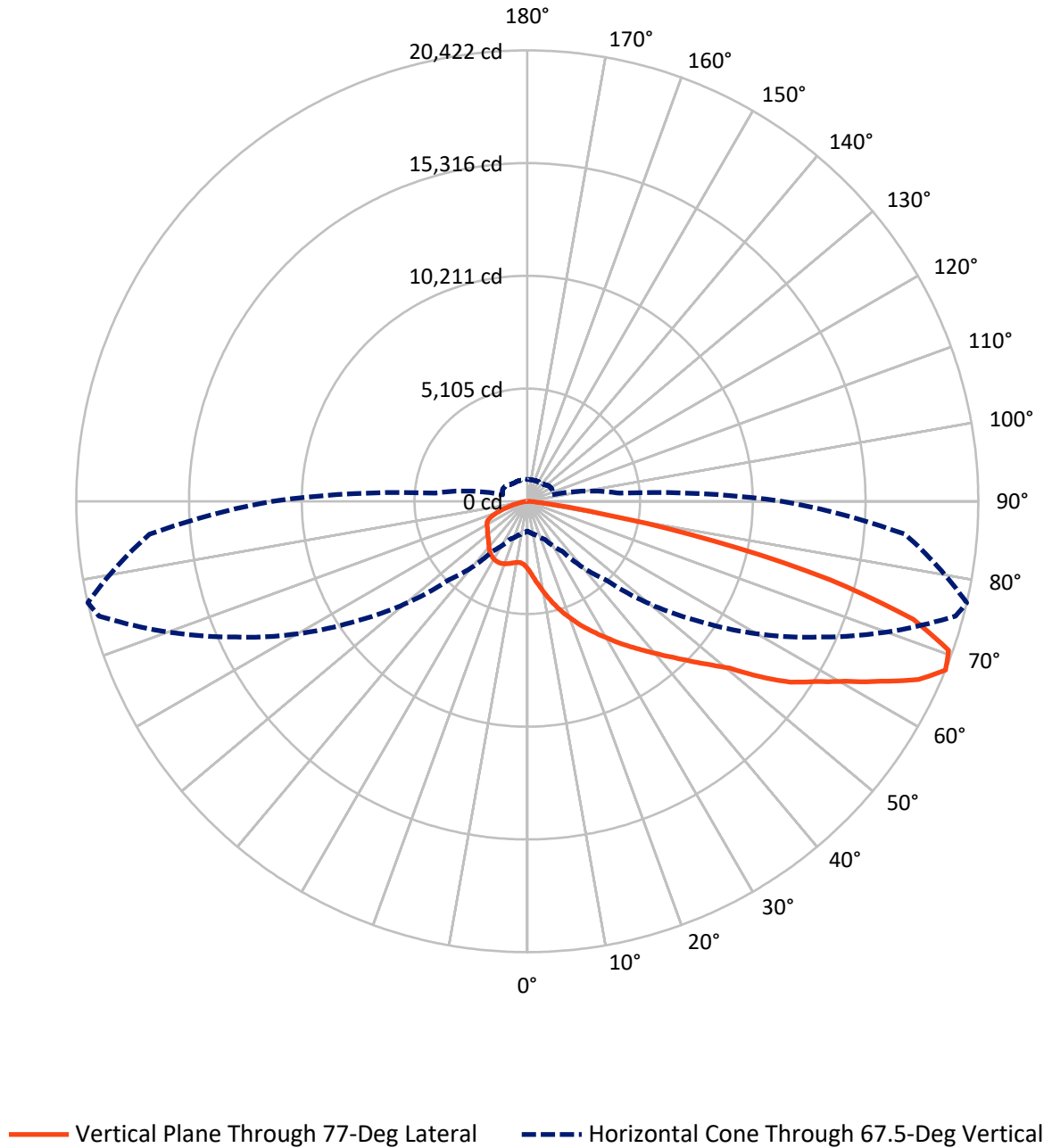
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4924.4	0.0	4924.4
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	21108.6	0.0	21108.6
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	26033.0	0.0	26033.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.4	1.3
10°-20°	1176.2	4.5
20°-30°	2220.8	8.5
30°-40°	3577.7	13.7
40°-50°	4893.6	18.8
50°-60°	5520.0	21.2
60°-70°	5152.3	19.8
70°-80°	2824.3	10.8
80°-90°	340.7	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°	26033.0	100.0
0°-180°	26033.0	100.0



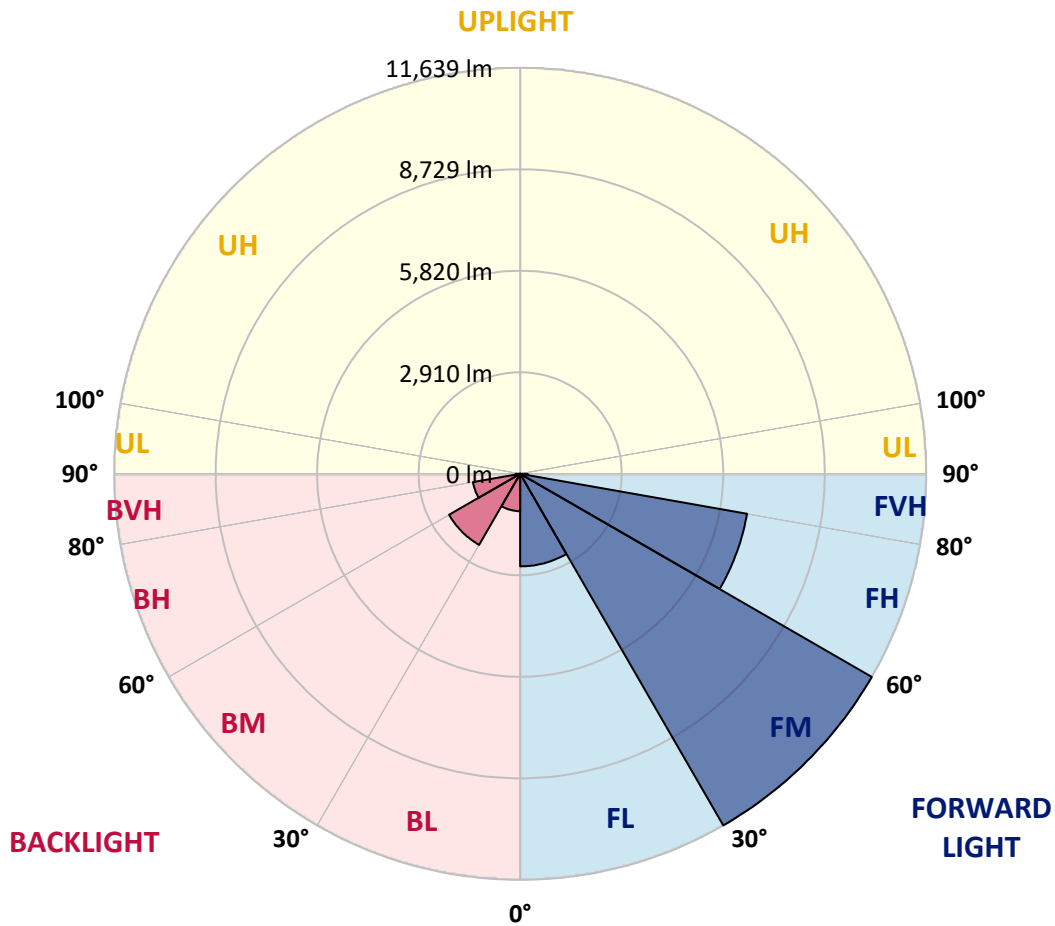
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2653.7	10.2			
FM (30°-60°)	11639.1	44.7			
FH (60°-80°)	6602.7	25.4			G3/7500
FVH (80°-90°)	213.1	0.8			G2/225
BL (0°-30°)	1070.7	4.1	B3/2500		
BM (30°-60°)	2352.3	9.0	B2/2500		
BH (60°-80°)	1373.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	127.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5
2.5°	3824.5	3851.4	3817.8	3817.8	3704.9	3645.8	3532.9	3446.9	3292.3	3265.5
5°	4520.6	4554.2	4507.1	4487.0	4353.9	4231.7	4042.2	3855.4	3579.9	3551.7
7.5°	5059.4	5102.4	5060.8	5039.3	4921.0	4784.0	4562.2	4301.5	3913.2	3858.1
10°	5498.9	5505.6	5492.2	5500.2	5407.5	5294.6	5067.5	4763.8	4278.7	4203.4
12.5°	5747.5	5778.4	5805.3	5853.6	5837.5	5767.6	5563.4	5200.5	4665.7	4569.0
15°	5864.4	5918.1	5978.6	6090.1	6180.2	6197.7	6041.8	5669.5	5059.4	4942.5
17.5°	5906.0	5957.1	6052.5	6213.8	6407.3	6537.6	6467.8	6125.1	5449.1	5314.8
20°	6117.0	6131.8	6189.6	6342.8	6552.4	6768.8	6821.2	6563.2	5834.8	5683.0
22.5°	6568.5	6539.0	6555.1	6625.0	6775.5	6985.1	7104.7	6950.2	6231.2	6056.6
25°	7314.4	7228.4	7142.3	7061.7	7138.3	7256.6	7392.3	7337.2	6646.5	6424.8
27.5°	8256.4	8151.6	7962.1	7697.3	7604.6	7646.3	7706.7	7696.0	7030.8	6806.4
30°	9183.6	9061.3	8835.5	8452.6	8208.0	8097.8	8052.1	8021.2	7448.7	7209.5
32.5°	9924.0	9827.3	9605.6	9176.9	8822.1	8634.0	8482.1	8371.9	7885.5	7646.3
35°	10571.8	10481.7	10227.7	9760.1	9374.4	9174.2	8975.3	8740.1	8339.7	8097.8
37.5°	11163.0	11073.0	10724.9	10238.5	9850.1	9711.7	9534.3	9135.2	8795.2	8566.8
40°	11536.6	11516.4	11191.2	10640.3	10237.1	10168.6	10109.5	9593.5	9300.5	9088.2
42.5°	11632.0	11676.4	11418.4	10965.5	10581.2	10526.1	10664.5	10112.2	9867.6	9664.7
45°	11402.2	11529.9	11360.6	11052.8	10825.7	10796.2	11156.3	10679.3	10495.2	10309.7
47.5°	10820.4	11036.7	10966.8	10923.8	10891.6	11019.2	11589.0	11281.3	11206.0	11044.8
50°	9645.9	10055.7	10178.0	10449.5	10761.2	11192.6	11982.8	11938.4	12036.5	11873.9
52.5°	7615.4	8179.8	8889.3	9569.3	10360.8	11134.8	12415.5	12881.8	13295.7	13207.0
55°	6286.3	6540.3	7085.9	8333.0	9584.1	10891.6	12610.3	13643.7	14545.4	14466.1
57.5°	5265.0	5492.2	5828.1	6869.6	8409.6	10339.3	12731.3	14108.7	15401.4	15393.3
60°	4169.8	4410.4	4754.4	5492.2	7037.5	9385.2	12704.4	14638.1	16493.9	16561.1
62.5°	2933.5	3198.3	3579.9	4267.9	5635.9	8148.9	12156.1	15021.1	17779.9	17962.7
65°	1928.4	2103.1	2390.6	2984.6	4199.4	6559.1	11109.3	15070.8	19156.0	19465.1
67.5°	1351.9	1419.1	1588.4	1910.9	2768.2	5029.9	9441.6	14556.1	20073.8	20421.9
70°	1054.9	1088.5	1174.5	1303.5	1738.9	3382.4	7235.1	13217.7	19877.6	20240.5
72.5°	911.1	943.4	975.6	991.7	1166.4	2088.3	4900.9	11051.5	18029.9	18275.8
75°	826.4	834.5	861.4	856.0	889.6	1354.6	2828.7	8052.1	14225.6	14140.9
77.5°	694.7	705.5	749.8	743.1	790.2	925.9	1468.8	5196.5	9222.6	8647.4
80°	588.6	594.0	642.3	634.3	686.7	670.6	749.8	2648.6	3911.8	3313.8
82.5°	204.3	252.6	490.5	505.3	524.1	405.8	432.7	1080.4	1194.6	915.1
85°	99.4	106.2	249.9	354.8	353.4	204.3	211.0	385.7	376.3	295.6
87.5°	16.1	20.2	29.6	138.4	110.2	53.8	72.6	75.3	77.9	67.2
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°
3054.5	0°	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5	3054.5
3163.3	2.5°	3088.1	3020.9	2879.8	2749.4	2647.3	2549.2	2494.1	2447.1	2420.2	2414.8
3311.1	5°	3171.4	3033.0	2776.3	2560.0	2418.9	2314.0	2258.9	2224.0	2206.5	2195.8
3510.0	7.5°	3291.0	3088.1	2722.6	2476.6	2328.8	2253.6	2225.3	2220.0	2218.6	2220.0
3750.6	10°	3456.3	3178.1	2717.2	2456.5	2332.9	2291.2	2289.9	2291.2	2296.6	2297.9
4012.6	12.5°	3635.0	3270.8	2738.7	2474.0	2383.9	2361.1	2357.0	2355.7	2359.7	2362.4
4277.3	15°	3829.9	3393.1	2775.0	2511.6	2440.4	2416.2	2412.1	2404.1	2402.7	2401.4
4555.5	17.5°	4030.1	3514.1	2815.3	2551.9	2476.6	2443.0	2428.3	2409.5	2394.7	2390.6
4843.1	20°	4233.0	3633.7	2843.5	2572.1	2479.3	2432.3	2402.7	2370.5	2344.9	2330.2
5133.4	22.5°	4449.4	3758.6	2861.0	2566.7	2455.1	2390.6	2336.9	2299.3	2260.3	2234.8
5426.3	25°	4660.3	3867.5	2859.6	2538.5	2408.1	2326.1	2257.6	2209.2	2155.5	2128.6
5728.7	27.5°	4863.2	3965.6	2826.0	2488.7	2340.9	2249.5	2167.6	2109.8	2057.4	2031.8
6033.7	30°	5072.9	4047.6	2773.6	2416.2	2261.6	2160.8	2070.8	2021.1	1974.1	1949.9
6356.2	32.5°	5281.2	4122.8	2699.7	2326.1	2170.3	2073.5	1984.8	1939.1	1910.9	1910.9
6702.9	35°	5501.6	4175.2	2601.6	2221.3	2073.5	1980.8	1910.9	1884.0	1881.3	1865.2
7069.8	37.5°	5734.0	4208.8	2482.0	2113.8	1978.1	1890.7	1869.2	1837.0	1810.1	1775.2
7472.9	40°	5978.6	4242.4	2338.2	2002.3	1877.3	1828.9	1819.5	1776.5	1699.9	1613.9
7929.8	42.5°	6275.6	4265.3	2189.1	1890.7	1771.1	1755.0	1768.5	1694.5	1572.3	1507.8
8480.8	45°	6619.6	4302.9	2052.0	1780.5	1662.3	1662.3	1718.7	1622.0	1521.2	1480.9
9109.7	47.5°	7065.8	4390.2	1924.3	1659.6	1561.5	1588.4	1608.5	1534.6	1478.2	1428.5
9875.7	50°	7710.8	4599.9	1792.6	1537.3	1484.9	1538.7	1510.4	1467.4	1401.6	1361.3
11093.1	52.5°	8511.7	4723.5	1675.7	1427.1	1419.1	1472.8	1432.5	1392.2	1342.5	1288.7
12016.3	55°	9057.3	4746.3	1577.6	1346.5	1374.7	1369.3	1354.6	1318.3	1291.4	1220.2
12927.5	57.5°	9667.4	4792.0	1497.0	1298.1	1346.5	1287.4	1282.0	1251.1	1216.1	1167.8
14038.8	60°	10397.1	4863.2	1427.1	1279.3	1322.3	1233.6	1206.7	1194.6	1159.7	1135.5
15375.9	62.5°	11192.6	4927.8	1355.9	1282.0	1294.1	1181.2	1140.9	1136.9	1115.4	1107.3
16631.0	65°	11735.5	4751.7	1267.2	1279.3	1249.7	1127.5	1076.4	1075.0	1057.6	1054.9
17175.2	67.5°	11546.0	4194.0	1147.6	1241.7	1204.1	1073.7	1017.3	1011.9	989.0	990.4
16606.8	70°	10597.3	3398.5	982.3	1149.0	1147.6	1025.3	955.4	938.0	907.1	912.4
14439.2	72.5°	8818.1	2518.3	760.6	994.4	1057.6	981.0	884.2	856.0	817.0	822.4
10659.1	75°	6368.3	1712.0	553.6	756.6	920.5	928.6	814.3	766.0	718.9	727.0
5932.9	77.5°	3258.7	970.2	407.2	521.4	723.0	843.9	751.2	686.7	675.9	751.2
1710.7	80°	1063.0	486.5	282.2	365.5	474.4	690.7	658.5	584.6	581.9	599.3
358.8	82.5°	317.1	205.6	181.4	240.5	262.0	529.5	568.4	442.1	380.3	400.5
119.6	85°	108.8	99.4	103.5	119.6	125.0	310.4	397.8	293.0	276.8	305.0
26.9	87.5°	25.5	34.9	29.6	26.9	26.9	75.3	154.5	122.3	169.3	112.9
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>
3054.5
2414.8
2194.4
2224.0
2299.3
2363.8
2400.0
2394.7
2335.5
2236.1
2128.6
2030.5
1948.5
1912.2
1861.2
1769.8
1601.8
1509.1
1487.6
1427.1
1357.2
1278.0
1221.5
1151.6
1142.2
1107.3
1053.5
990.4
917.8
821.1
729.7
740.4
514.7
413.9
301.0
108.8
0.0

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