

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: P941758

Luminaire Tested: **GALN-SB5B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

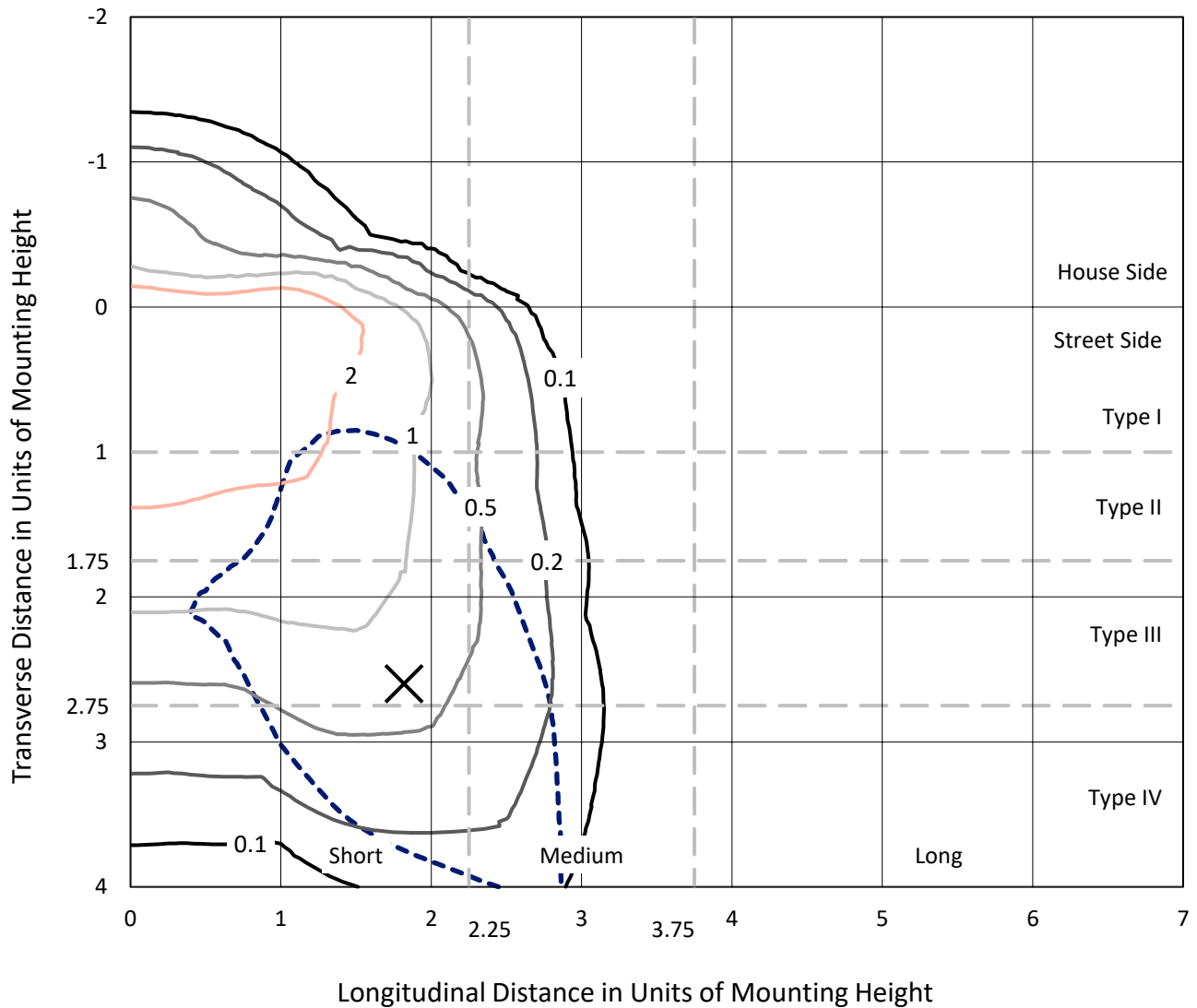
Lumens per Lamp: N/A  
Luminaire Lumens: 15606 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

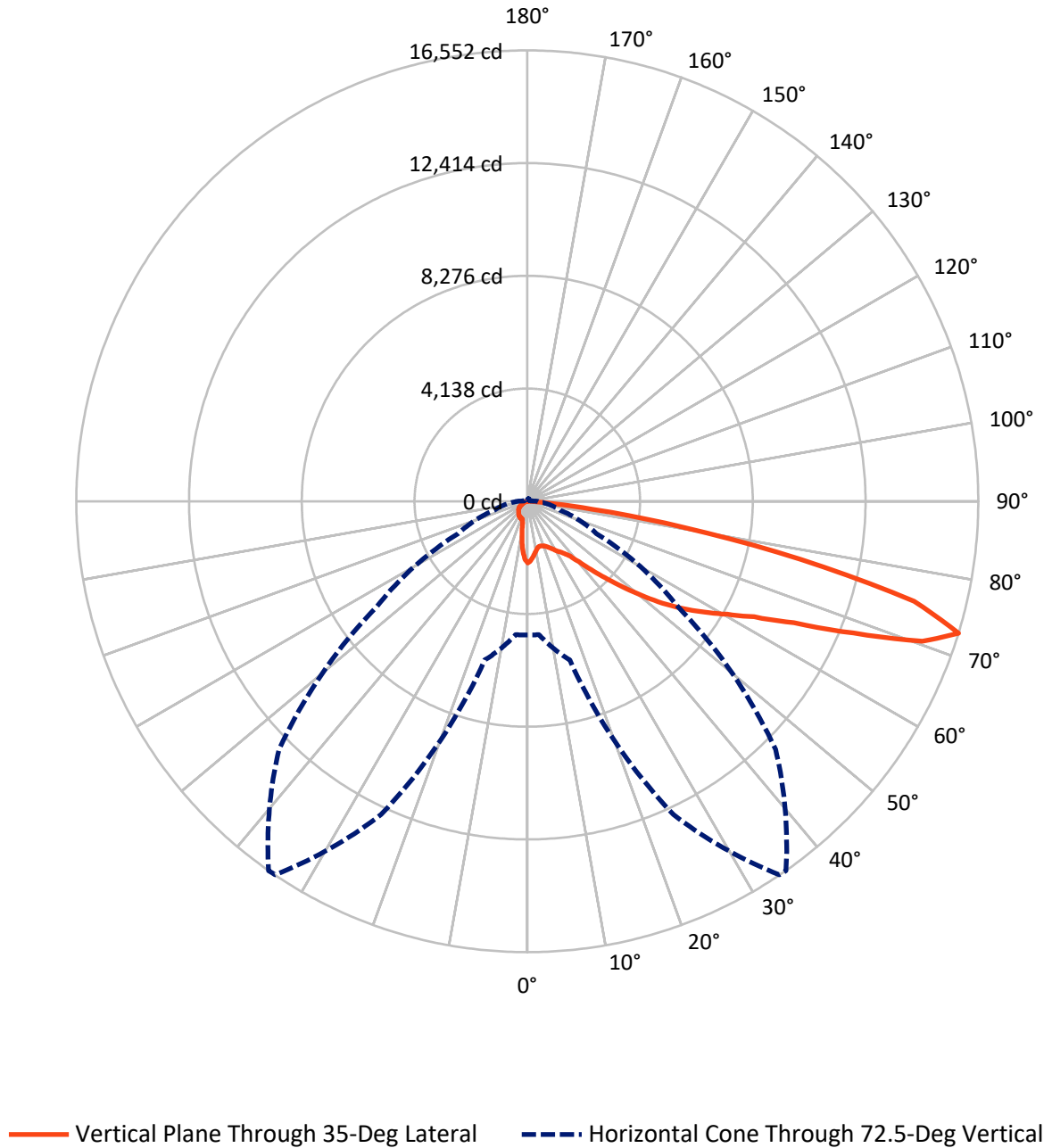
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1756.4	0.0	1756.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	13849.6	0.0	13849.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	15606.0	0.0	15606.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.9	1.2
10°-20°	434.8	2.8
20°-30°	706.3	4.5
30°-40°	1178.5	7.6
40°-50°	2229.7	14.3
50°-60°	3543.1	22.7
60°-70°	4383.0	28.1
70°-80°	2724.5	17.5
80°-90°	220.2	1.4
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°	15606.0	100.0
0°-180°	15606.0	100.0

**Coefficient of Utilization**



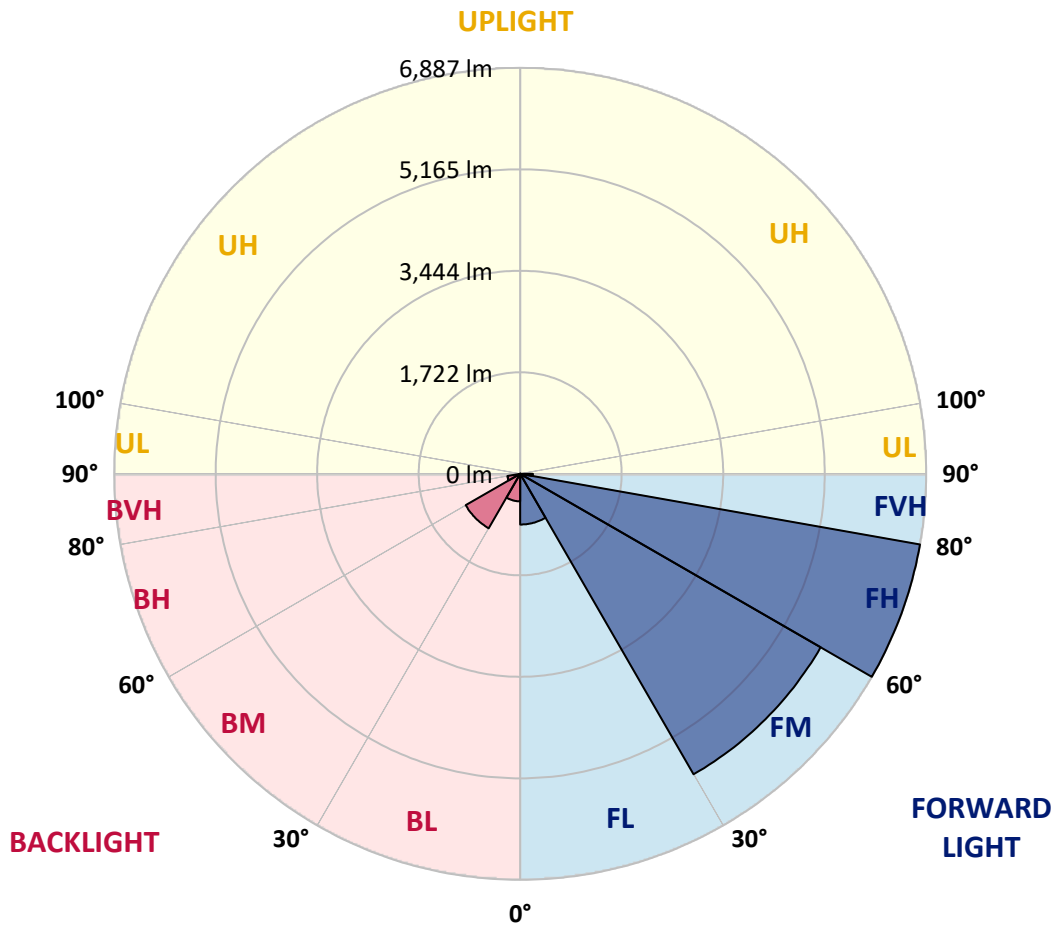
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.3	5.5			
FM (30°-60°)	5885.0	37.7			
FH (60°-80°)	6887.1	44.1			G3/7500
FVH (80°-90°)	217.2	1.4			G2/225
BL (0°-30°)	466.7	3.0	B1/500		
BM (30°-60°)	1066.3	6.8	B2/2500		
BH (60°-80°)	220.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8
2.5°	2161.2	2179.5	2182.9	2188.6	2188.6	2195.5	2206.9	2223.0	2249.3	2263.0
5°	1992.0	2005.7	2022.8	2036.6	2062.9	2066.3	2110.9	2154.3	2214.9	2260.7
7.5°	1821.6	1837.6	1860.5	1893.6	1927.9	1938.2	2005.7	2078.9	2174.9	2260.7
10°	1701.5	1702.7	1723.2	1756.4	1811.3	1823.9	1906.2	2010.3	2130.3	2247.0
12.5°	1634.1	1642.1	1651.2	1676.4	1729.0	1737.0	1825.0	1947.4	2085.7	2239.0
15°	1634.1	1639.8	1645.5	1658.1	1700.4	1707.2	1785.0	1907.3	2062.9	2242.4
17.5°	1651.2	1660.4	1655.8	1670.6	1715.2	1719.8	1788.4	1895.9	2061.7	2264.1
20°	1692.4	1699.2	1690.1	1699.2	1743.8	1753.0	1823.9	1917.6	2081.2	2301.9
22.5°	1757.6	1761.0	1739.3	1746.1	1791.9	1803.3	1885.6	1979.4	2128.0	2362.5
25°	1839.9	1846.7	1813.6	1821.6	1865.0	1878.8	1973.7	2072.0	2202.4	2445.9
27.5°	1934.8	1938.2	1909.6	1908.5	1964.5	1984.0	2080.0	2186.4	2301.9	2551.1
30°	2043.4	2053.7	2026.3	2021.7	2092.6	2108.6	2203.5	2327.0	2448.2	2708.9
32.5°	2129.2	2137.2	2121.2	2132.6	2204.7	2217.2	2353.3	2526.0	2678.1	2933.1
35°	2252.7	2257.3	2220.7	2241.2	2323.6	2355.6	2558.0	2805.0	2967.4	3214.4
37.5°	2699.8	2699.8	2544.3	2442.5	2521.4	2550.0	2838.2	3156.0	3324.1	3591.7
40°	3318.4	3308.1	3080.6	2872.5	2862.2	2918.2	3237.2	3598.6	3785.0	4044.5
42.5°	3978.2	3962.2	3652.3	3446.5	3412.2	3431.6	3698.1	4144.0	4333.8	4596.8
45°	4563.7	4559.1	4275.5	3998.8	3937.1	3998.8	4273.2	4782.1	4918.2	5194.9
47.5°	5054.2	5054.2	4847.3	4666.6	4634.6	4671.2	5052.0	5489.9	5477.3	5831.8
50°	5619.1	5614.6	5417.9	5340.1	5373.3	5424.7	5948.5	6235.5	6055.9	6457.3
52.5°	6014.8	6042.2	5974.8	5962.2	6131.4	6220.6	6858.7	6965.0	6574.0	7050.8
55°	6328.1	6360.1	6437.9	6525.9	6851.8	6968.5	7740.3	7656.8	7007.3	7565.4
57.5°	6771.8	6726.0	6846.1	7019.9	7547.1	7687.7	8594.5	8309.8	7356.1	7982.7
60°	7310.4	7317.2	7337.8	7557.4	8241.2	8421.8	9436.1	8927.3	7580.2	8238.9
62.5°	7957.6	7967.9	8010.2	8347.5	9173.1	9343.5	10332.6	9432.7	7683.1	8166.8
65°	7913.0	7956.4	8428.7	9582.5	10589.9	10758.0	11378.9	9787.2	7527.6	7508.2
67.5°	7208.6	7279.5	8069.6	11057.6	12726.0	12913.5	12643.6	9856.9	6856.4	5838.7
70°	6284.6	6309.8	7260.0	12384.0	15199.3	15389.2	13775.7	9089.6	5202.9	3256.7
72.5°	4907.9	4913.6	6028.5	12691.6	16541.8	16552.1	12887.2	6747.8	2798.1	1251.0
75°	3506.0	3471.7	4037.7	10292.6	14553.3	14669.9	9661.4	3165.2	1069.2	591.2
77.5°	1879.9	1917.6	2284.7	6104.0	10053.6	10252.6	5271.5	912.5	544.3	402.5
80°	580.9	612.9	936.5	2794.7	5694.6	5814.7	1954.2	405.9	379.6	287.0
82.5°	183.0	189.8	436.8	1174.4	2363.6	2418.5	566.0	229.8	259.6	189.8
85°	52.6	53.7	194.4	438.0	584.3	595.8	158.9	89.2	148.7	117.8
87.5°	5.7	18.3	73.2	73.2	51.5	50.3	17.2	19.4	42.3	14.9
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°
2261.8	0°	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8	2261.8
2272.1	2.5°	2266.4	2267.6	2252.7	2227.5	2200.1	2177.2	2148.6	2125.8	2109.7	2105.2
2292.7	5°	2282.4	2274.4	2232.1	2155.5	2064.0	1985.1	1897.1	1827.3	1781.6	1762.1
2314.4	7.5°	2306.4	2283.6	2190.9	2040.0	1865.0	1709.5	1551.7	1429.4	1351.6	1312.7
2335.0	10°	2327.0	2281.3	2122.3	1873.0	1605.5	1369.9	1157.2	1009.7	927.4	888.5
2359.0	12.5°	2346.5	2280.1	2033.1	1675.2	1312.7	1024.6	826.7	753.6	730.7	722.7
2397.9	15°	2383.0	2283.6	1921.1	1448.8	1021.1	774.1	702.1	701.0	705.5	703.2
2457.4	17.5°	2433.4	2287.0	1794.1	1208.7	787.9	682.7	679.2	689.5	696.4	693.0
2531.7	20°	2498.5	2300.7	1659.2	970.8	676.9	659.8	667.8	676.9	682.7	676.9
2631.2	22.5°	2590.0	2324.7	1511.7	779.9	641.5	646.1	652.9	663.2	668.9	660.9
2758.1	25°	2702.1	2362.5	1366.5	678.1	624.3	630.1	640.4	651.8	658.7	650.6
2918.2	27.5°	2847.3	2423.1	1232.7	655.2	607.2	610.6	625.5	642.6	651.8	641.5
3145.8	30°	3057.7	2522.5	1117.2	665.5	596.9	588.9	609.5	633.5	643.8	634.6
3455.6	32.5°	3336.7	2663.2	1046.3	681.5	592.3	563.7	583.2	614.1	631.2	625.5
3860.4	35°	3702.6	2877.0	1018.9	699.8	588.9	537.4	551.2	584.3	614.1	619.8
4370.4	37.5°	4146.3	3174.3	1026.9	707.8	578.6	515.7	522.6	551.2	590.0	608.3
4944.5	40°	4650.6	3520.8	1072.6	699.8	567.2	497.4	498.6	520.3	554.6	582.0
5562.0	42.5°	5170.9	3925.6	1157.2	670.1	556.9	481.4	478.0	492.8	515.7	535.2
6178.3	45°	5666.0	4341.8	1240.7	628.9	544.3	465.4	457.4	463.1	467.7	475.7
6778.6	47.5°	6098.3	4634.6	1216.7	591.2	527.2	447.1	433.4	431.1	417.4	416.2
7314.9	50°	6396.7	4698.6	1080.6	553.5	502.0	426.5	404.8	391.1	367.1	355.6
7716.3	52.5°	6491.6	4445.9	882.8	515.7	460.8	399.1	368.2	346.5	316.7	306.5
7947.3	55°	6365.8	3950.8	705.5	470.0	403.7	362.5	328.2	299.6	275.6	263.0
7972.4	57.5°	6058.2	3320.7	558.0	416.2	343.0	321.3	287.0	258.4	237.8	225.3
7693.4	60°	5548.2	2636.9	441.4	352.2	292.7	276.7	241.3	223.0	204.7	189.8
6973.0	62.5°	4774.1	1882.2	346.5	279.0	244.7	226.4	205.8	192.1	170.4	149.8
5677.5	65°	3725.5	1151.5	267.6	204.7	196.7	187.5	175.0	162.4	136.1	115.5
3703.8	67.5°	2349.9	545.4	191.0	154.4	155.5	150.9	145.2	134.9	115.5	97.2
1659.2	70°	1034.9	264.1	125.8	117.8	115.5	115.5	120.1	116.6	98.3	81.2
576.3	72.5°	352.2	141.8	93.8	89.2	83.5	82.3	100.6	97.2	78.9	62.9
287.0	75°	184.1	94.9	68.6	64.0	50.3	60.6	80.0	75.5	56.0	41.2
189.8	77.5°	120.1	67.5	46.9	41.2	28.6	40.0	59.5	52.6	33.2	20.6
124.6	80°	75.5	44.6	27.4	19.4	13.7	21.7	32.0	22.9	12.6	4.6
73.2	82.5°	40.0	22.9	10.3	6.9	5.7	6.9	8.0	5.7	2.3	0.0
37.7	85°	16.0	8.0	3.4	2.3	1.1	0.0	2.3	1.1	0.0	0.0
6.9	87.5°	5.7	1.1	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>
2261.8
2113.2
1769.0
1318.4
889.6
720.4
702.1
691.8
675.8
659.8
649.5
641.5
633.5
625.5
619.8
612.9
591.2
543.2
480.3
415.1
356.8
305.3
263.0
223.0
186.4
146.4
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