

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: P940998

Luminaire Tested: **GALN-SB4B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940998  
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-SB4B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

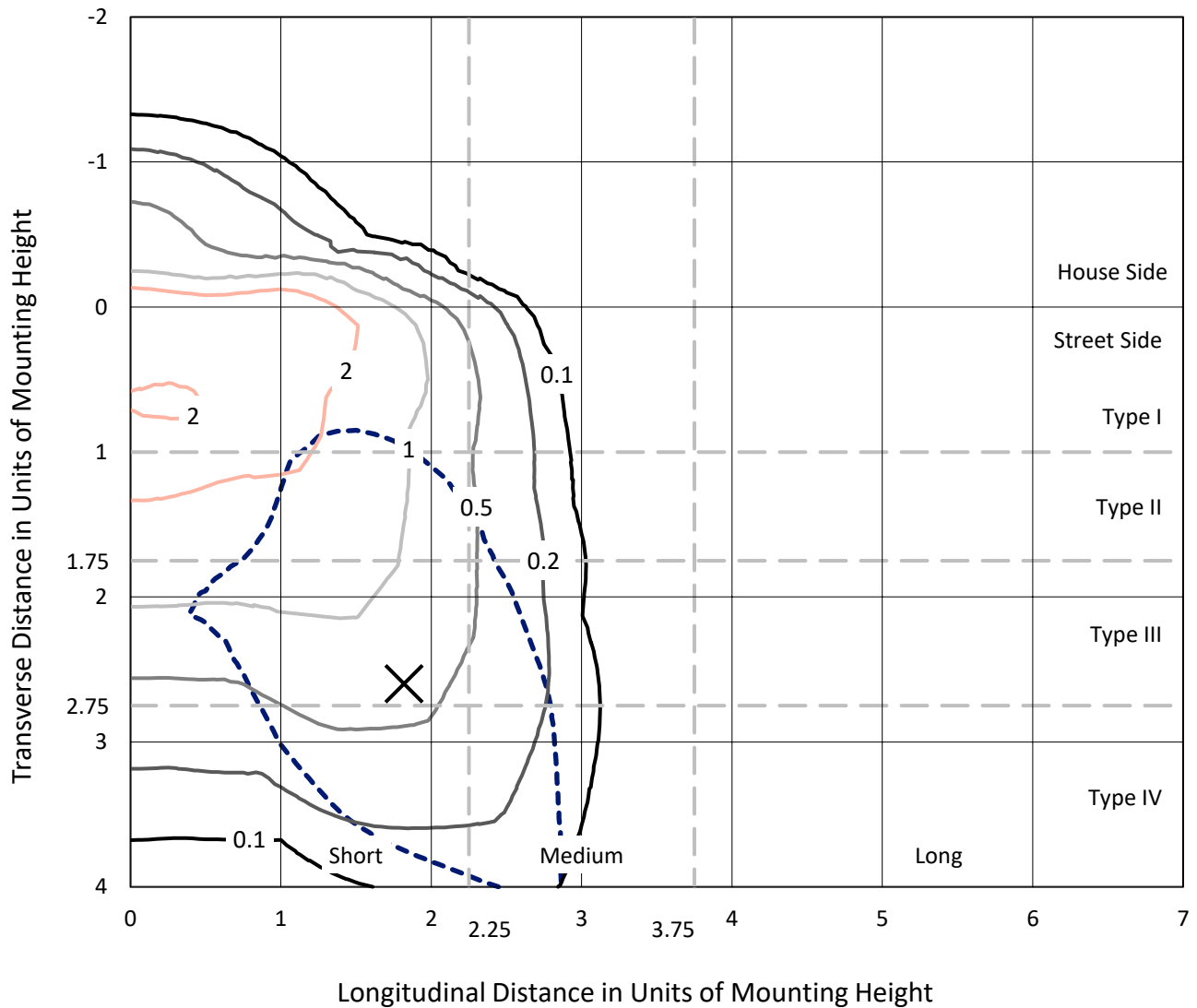
Lumens per Lamp: N/A  
Luminaire Lumens: 14858 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

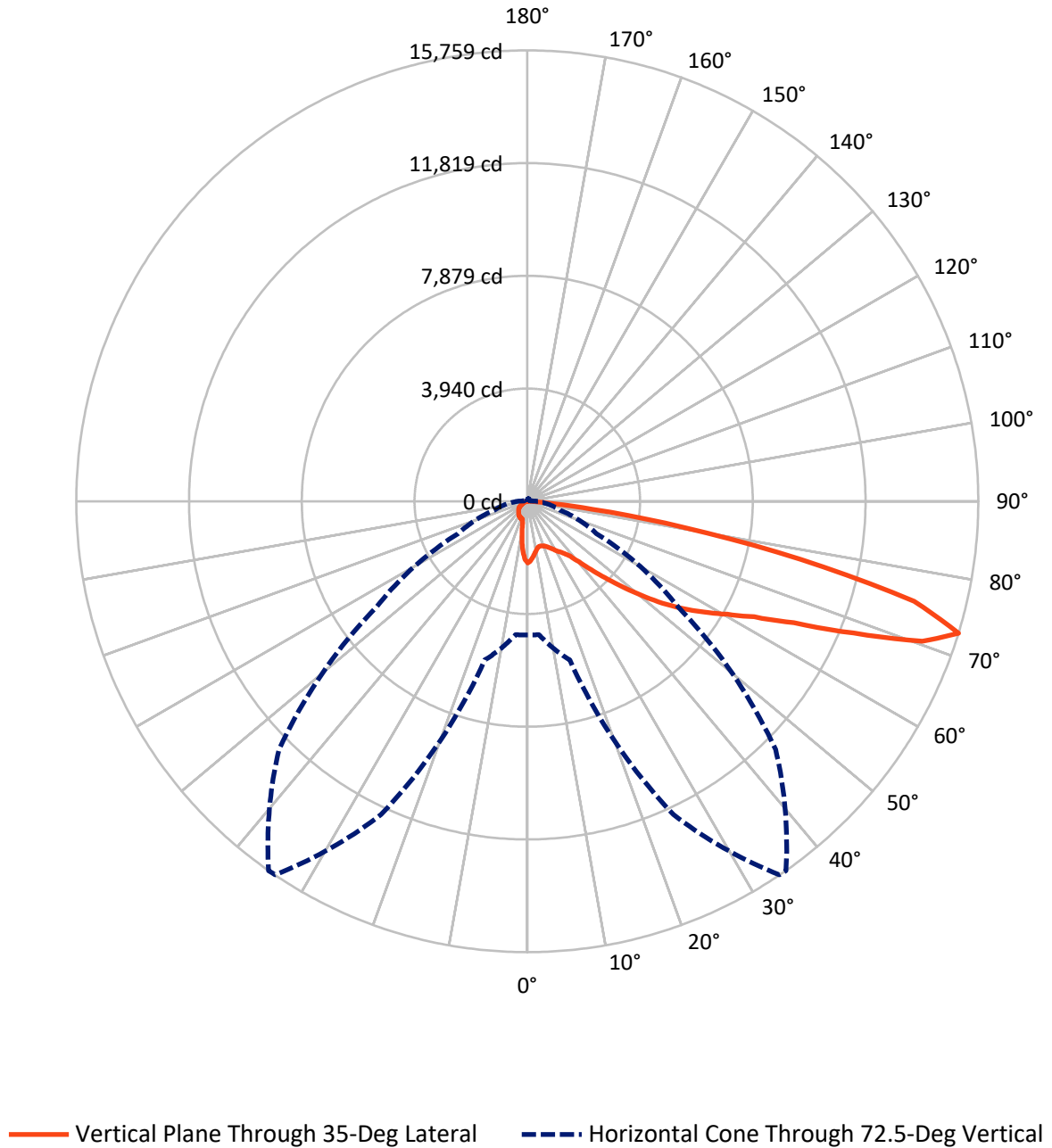
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1672.2	0.0	1672.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	13185.8	0.0	13185.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	14858.0	0.0	14858.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.0	1.2
10°-20°	414.0	2.8
20°-30°	672.5	4.5
30°-40°	1122.0	7.6
40°-50°	2122.9	14.3
50°-60°	3373.2	22.7
60°-70°	4172.9	28.1
70°-80°	2593.9	17.5
80°-90°	209.6	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°	14858.0	100.0
0°-180°	14858.0	100.0



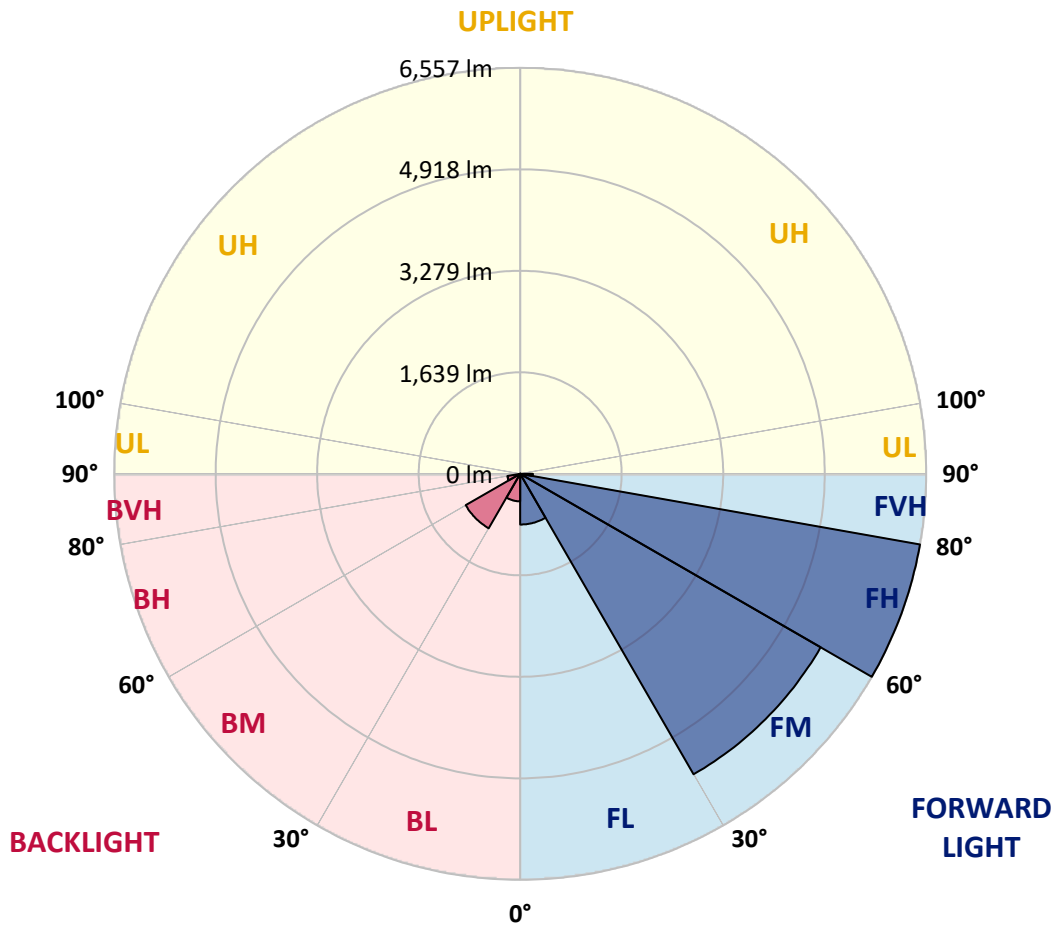
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.1	5.5			
FM (30°-60°)	5602.9	37.7			
FH (60°-80°)	6557.0	44.1			G3/7500
FVH (80°-90°)	206.8	1.4			G2/225
BL (0°-30°)	444.3	3.0	B1/500		
BM (30°-60°)	1015.2	6.8	B2/2500		
BH (60°-80°)	209.8	1.4	B1/500		G1/500
BVH (80°-90°)	2.9	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°	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4
2.5°	2057.6	2075.0	2078.3	2083.7	2083.7	2090.3	2101.2	2116.4	2141.4	2154.5
5°	1896.5	1909.6	1925.9	1939.0	1964.0	1967.3	2009.7	2051.1	2108.8	2152.3
7.5°	1734.3	1749.5	1771.3	1802.9	1835.5	1845.3	1909.6	1979.2	2070.7	2152.3
10°	1620.0	1621.1	1640.7	1672.2	1724.5	1736.5	1814.8	1913.9	2028.2	2139.3
12.5°	1555.7	1563.4	1572.1	1596.0	1646.1	1653.7	1737.5	1854.0	1985.8	2131.6
15°	1555.7	1561.2	1566.6	1578.6	1618.9	1625.4	1699.4	1815.9	1964.0	2134.9
17.5°	1572.1	1580.8	1576.4	1590.6	1633.0	1637.4	1702.7	1805.0	1962.9	2155.6
20°	1611.3	1617.8	1609.1	1617.8	1660.2	1669.0	1736.5	1825.7	1981.4	2191.5
22.5°	1673.3	1676.6	1655.9	1662.4	1706.0	1716.9	1795.2	1884.5	2026.0	2249.2
25°	1751.7	1758.2	1726.7	1734.3	1775.6	1788.7	1879.1	1972.7	2096.8	2328.7
27.5°	1842.1	1845.3	1818.1	1817.0	1870.4	1888.9	1980.3	2081.6	2191.5	2428.9
30°	1945.5	1955.3	1929.2	1924.8	1992.3	2007.5	2097.9	2215.5	2330.9	2579.1
32.5°	2027.1	2034.8	2019.5	2030.4	2099.0	2111.0	2240.5	2404.9	2549.7	2792.5
35°	2144.7	2149.1	2114.2	2133.8	2212.2	2242.7	2435.4	2670.5	2825.1	3060.3
37.5°	2570.4	2570.4	2422.3	2325.4	2400.6	2427.8	2702.1	3004.8	3164.8	3419.6
40°	3159.4	3149.6	2932.9	2734.8	2725.0	2778.3	3082.1	3426.1	3603.6	3850.7
42.5°	3787.5	3772.3	3477.3	3281.3	3248.6	3267.1	3520.8	3945.4	4126.1	4376.5
45°	4344.9	4340.6	4070.6	3807.1	3748.3	3807.1	4068.4	4552.9	4682.4	4945.9
47.5°	4812.0	4812.0	4614.9	4442.9	4412.4	4447.3	4809.8	5226.8	5214.8	5552.3
50°	5349.8	5345.5	5158.2	5084.2	5115.7	5164.7	5663.3	5936.6	5765.7	6147.8
52.5°	5726.5	5752.6	5688.4	5676.4	5837.5	5922.5	6529.9	6631.2	6258.9	6712.8
55°	6024.8	6055.3	6129.3	6213.1	6523.4	6634.5	7369.3	7289.8	6671.5	7202.8
57.5°	6447.2	6403.7	6518.0	6683.4	7185.3	7319.2	8182.6	7911.5	7003.5	7600.1
60°	6960.0	6966.5	6986.1	7195.1	7846.2	8018.2	8983.8	8499.4	7216.9	7844.0
62.5°	7576.2	7586.0	7626.3	7947.4	8733.4	8895.7	9837.4	8980.6	7314.9	7775.4
65°	7533.7	7575.1	8024.7	9123.2	10082.3	10242.4	10833.5	9318.1	7166.8	7148.3
67.5°	6863.1	6930.6	7682.9	10527.6	12116.0	12294.5	12037.6	9384.5	6527.8	5558.8
70°	5983.4	6007.4	6912.1	11790.5	14470.8	14651.5	13115.4	8654.0	4953.5	3100.6
72.5°	4672.6	4678.1	5739.6	12083.3	15748.9	15758.7	12269.5	6424.3	2664.0	1191.0
75°	3337.9	3305.3	3844.2	9799.3	13855.7	13966.8	9198.3	3013.5	1017.9	562.9
77.5°	1789.8	1825.7	2175.2	5811.4	9571.7	9761.2	5018.8	868.8	518.2	383.2
80°	553.1	583.5	891.6	2660.8	5421.7	5536.0	1860.6	386.5	361.4	273.3
82.5°	174.2	180.7	415.9	1118.1	2250.3	2302.6	538.9	218.8	247.1	180.7
85°	50.1	51.2	185.1	417.0	556.3	567.2	151.3	84.9	141.5	112.1
87.5°	5.4	17.4	69.7	69.7	49.0	47.9	16.3	18.5	40.3	14.2
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°
2153.4	0°	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4	2153.4
2163.2	2.5°	2157.8	2158.9	2144.7	2120.8	2094.6	2072.9	2045.6	2023.9	2008.6	2004.3
2182.8	5°	2173.0	2165.4	2125.1	2052.2	1965.1	1890.0	1806.1	1739.7	1696.2	1677.7
2203.5	7.5°	2195.9	2174.1	2085.9	1942.2	1775.6	1627.6	1477.3	1360.9	1286.8	1249.8
2223.1	10°	2215.5	2171.9	2020.6	1783.3	1528.5	1304.2	1101.8	961.3	882.9	845.9
2246.0	12.5°	2234.0	2170.8	1935.7	1594.9	1249.8	975.5	787.1	717.4	695.7	688.1
2283.0	15°	2268.8	2174.1	1829.0	1379.4	972.2	737.0	668.5	667.4	671.7	669.5
2339.6	17.5°	2316.7	2177.4	1708.1	1150.7	750.1	649.9	646.7	656.5	663.0	659.7
2410.4	20°	2378.8	2190.4	1579.7	924.3	644.5	628.2	635.8	644.5	649.9	644.5
2505.1	22.5°	2465.9	2213.3	1439.2	742.5	610.8	615.1	621.6	631.4	636.9	629.3
2625.9	25°	2572.6	2249.2	1301.0	645.6	594.4	599.9	609.7	620.6	627.1	619.5
2778.3	27.5°	2710.8	2306.9	1173.6	623.8	578.1	581.4	595.5	611.8	620.6	610.8
2995.0	30°	2911.1	2401.6	1063.6	633.6	568.3	560.7	580.3	603.1	612.9	604.2
3290.0	32.5°	3176.8	2535.6	996.1	648.9	563.9	536.7	555.2	584.6	601.0	595.5
3675.4	35°	3525.2	2739.1	970.0	666.3	560.7	511.7	524.7	556.3	584.6	590.1
4161.0	37.5°	3947.6	3022.2	977.6	673.9	550.9	491.0	497.5	524.7	561.8	579.2
4707.5	40°	4427.7	3352.1	1021.2	666.3	540.0	473.6	474.7	495.4	528.0	554.1
5295.4	42.5°	4923.0	3737.5	1101.8	638.0	530.2	458.3	455.1	469.2	491.0	509.5
5882.2	45°	5394.4	4133.7	1181.2	598.8	518.2	443.1	435.5	440.9	445.3	452.9
6453.7	47.5°	5806.0	4412.4	1158.4	562.9	501.9	425.7	412.6	410.4	397.4	396.3
6964.3	50°	6090.1	4473.4	1028.8	526.9	477.9	406.1	385.4	372.3	349.5	338.6
7346.5	52.5°	6180.5	4232.8	840.5	491.0	438.7	380.0	350.6	329.9	301.6	291.8
7566.4	55°	6060.7	3761.4	671.7	447.5	384.3	345.1	312.5	285.2	262.4	250.4
7590.3	57.5°	5767.9	3161.5	531.3	396.3	326.6	305.9	273.3	246.0	226.4	214.5
7324.7	60°	5282.3	2510.5	420.2	335.3	278.7	263.5	229.7	212.3	194.9	180.7
6638.8	62.5°	4545.3	1792.0	329.9	265.6	233.0	215.6	196.0	182.9	162.2	142.6
5405.3	65°	3546.9	1096.3	254.8	194.9	187.3	178.5	166.6	154.6	129.6	110.0
3526.3	67.5°	2237.3	519.3	181.8	147.0	148.1	143.7	138.3	128.5	110.0	92.5
1579.7	70°	985.3	251.5	119.8	112.1	110.0	110.0	114.3	111.0	93.6	77.3
548.7	72.5°	335.3	135.0	89.3	84.9	79.5	78.4	95.8	92.5	75.1	59.9
273.3	75°	175.3	90.4	65.3	61.0	47.9	57.7	76.2	71.9	53.3	39.2
180.7	77.5°	114.3	64.2	44.6	39.2	27.2	38.1	56.6	50.1	31.6	19.6
118.7	80°	71.9	42.5	26.1	18.5	13.1	20.7	30.5	21.8	12.0	4.4
69.7	82.5°	38.1	21.8	9.8	6.5	5.4	6.5	7.6	5.4	2.2	0.0
35.9	85°	15.2	7.6	3.3	2.2	1.1	0.0	2.2	1.1	0.0	0.0
6.5	87.5°	5.4	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>
2153.4
2011.9
1684.2
1255.3
847.0
685.9
668.5
658.7
643.4
628.2
618.4
610.8
603.1
595.5
590.1
583.5
562.9
517.1
457.2
395.2
339.7
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250.4
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