

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: P951166

Luminaire Tested: **GALN-SB5B-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

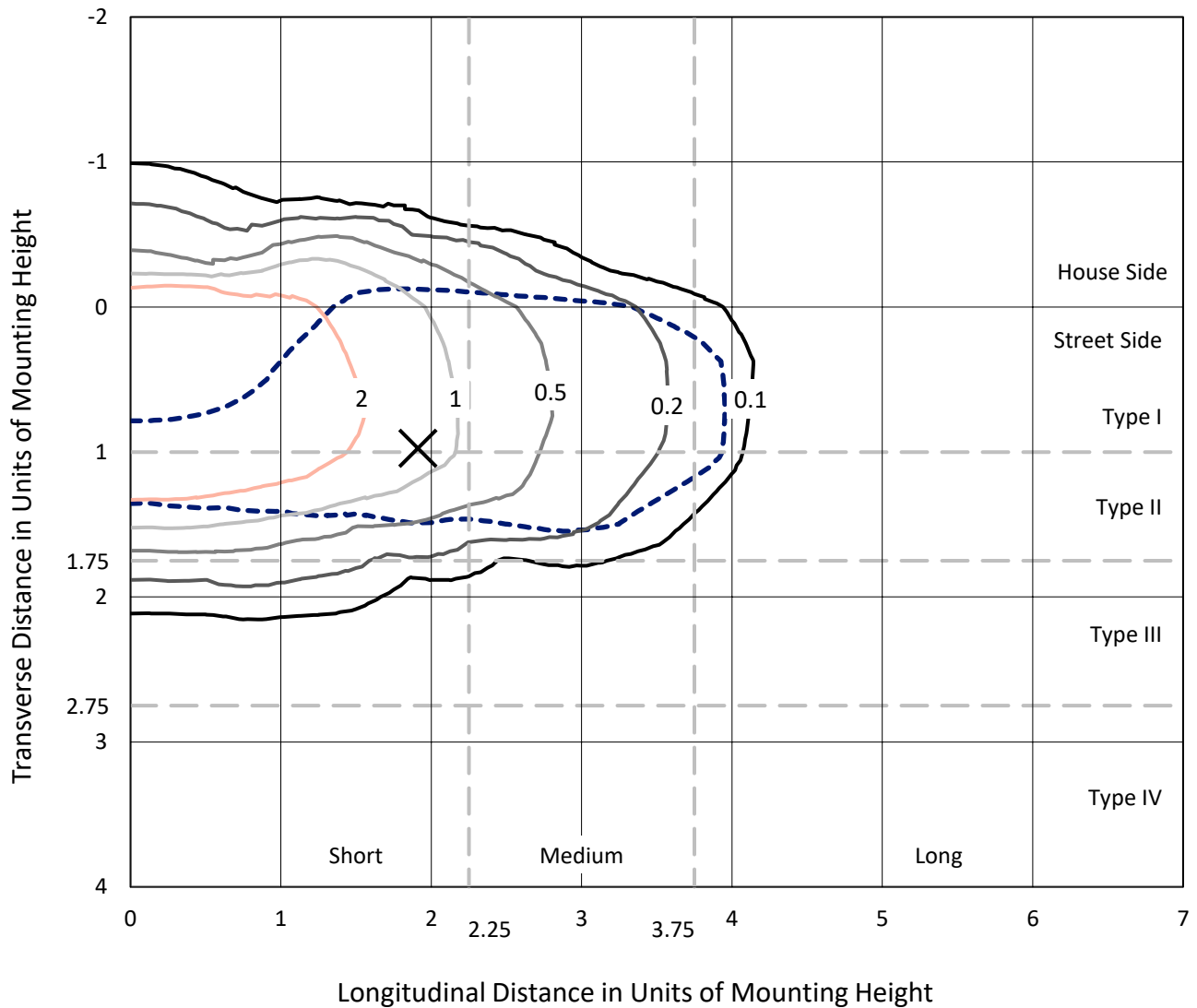
Lumens per Lamp: N/A  
Luminaire Lumens: 13232 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

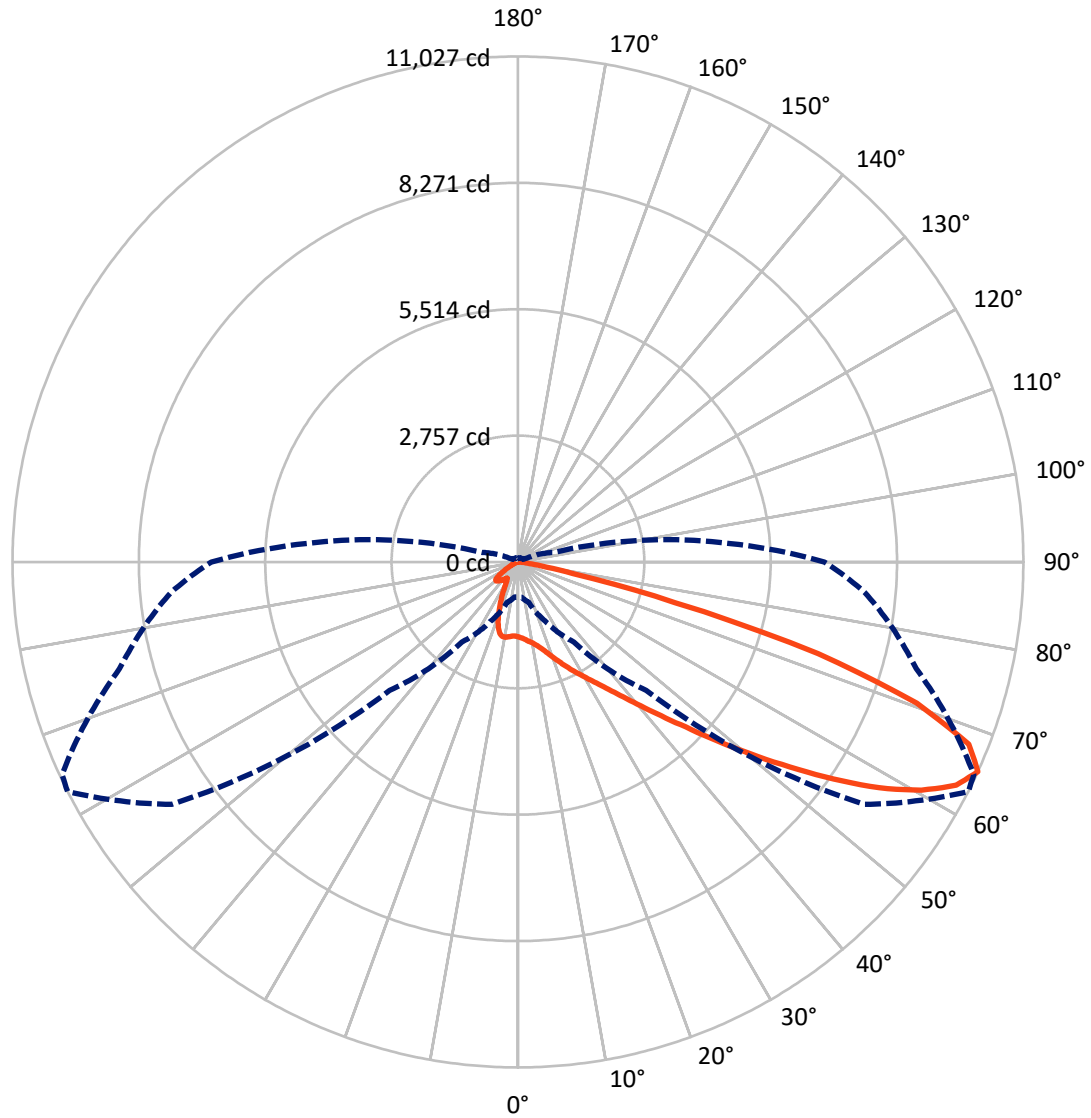
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1945.0	0.0	1945.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	11287.0	0.0	11287.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	13232.0	0.0	13232.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.9	1.2
10°-20°	426.9	3.2
20°-30°	743.4	5.6
30°-40°	1339.9	10.1
40°-50°	2657.4	20.1
50°-60°	3619.8	27.4
60°-70°	2889.3	21.8
70°-80°	1307.5	9.9
80°-90°	94.0	0.7
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°	13232.0	100.0
0°-180°	13232.0	100.0

**Coefficient of Utilization**



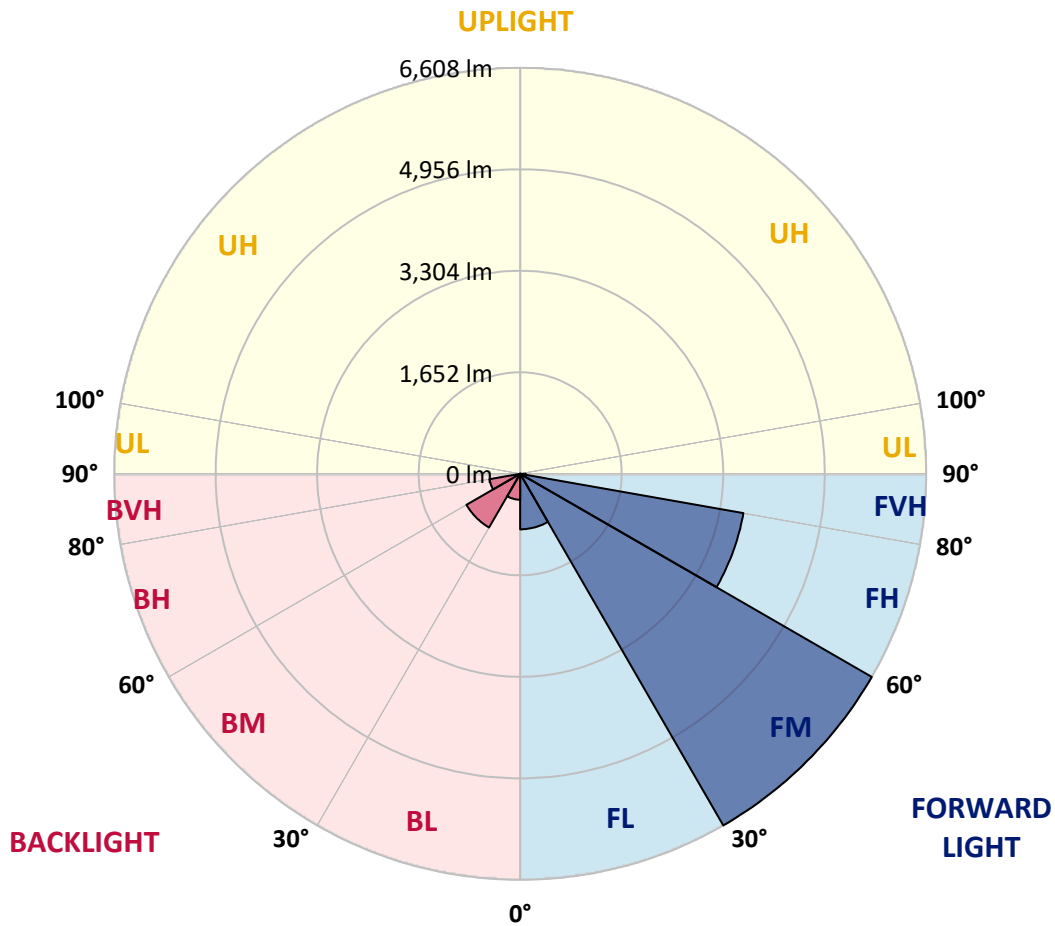
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.2	6.8			
FM (30°-60°)	6607.7	49.9			
FH (60°-80°)	3689.0	27.9			G2/5000
FVH (80°-90°)	87.0	0.7			G1/100
BL (0°-30°)	420.9	3.2	B1/500		
BM (30°-60°)	1009.3	7.6	B2/2500		
BH (60°-80°)	507.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.1			G0/10
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1
2.5°	1671.3	1666.8	1673.1	1670.4	1668.6	1664.9	1663.1	1661.3	1657.7	1654.9
5°	1675.9	1673.1	1679.5	1685.0	1690.4	1695.9	1698.6	1702.3	1698.6	1691.3
7.5°	1637.6	1635.8	1649.5	1665.8	1690.4	1711.4	1734.1	1746.9	1747.8	1745.0
10°	1634.9	1630.3	1644.0	1664.0	1695.9	1733.2	1773.3	1800.6	1804.2	1816.0
12.5°	1677.7	1673.1	1692.2	1714.1	1746.9	1786.0	1835.2	1873.4	1878.9	1895.2
15°	1749.6	1743.2	1765.1	1793.3	1835.2	1879.8	1931.7	1966.2	1970.8	1990.8
17.5°	1833.3	1827.0	1852.5	1882.5	1928.0	1989.0	2049.1	2087.3	2092.8	2105.5
20°	1940.8	1932.6	1952.6	1979.9	2028.1	2101.0	2172.9	2227.5	2226.6	2226.6
22.5°	2065.5	2052.7	2070.0	2091.9	2137.4	2225.7	2321.3	2385.9	2385.9	2360.4
25°	2199.3	2186.5	2205.7	2225.7	2265.7	2365.9	2477.8	2557.9	2561.6	2517.9
27.5°	2366.8	2350.4	2365.0	2388.6	2412.3	2514.2	2647.2	2740.0	2741.8	2674.5
30°	2689.0	2642.6	2597.1	2571.6	2582.5	2683.6	2825.6	2928.4	2937.5	2844.7
32.5°	3278.9	3269.8	3109.6	2900.2	2791.0	2865.6	3024.9	3148.7	3154.2	3034.9
35°	4195.6	4184.7	3927.0	3528.3	3172.4	3109.6	3267.1	3413.6	3410.0	3275.3
37.5°	5289.8	5279.7	4940.2	4406.8	3830.5	3478.3	3579.3	3733.1	3755.9	3579.3
40°	6224.6	6187.3	5972.5	5458.2	4704.4	4090.0	4023.5	4125.5	4149.1	3939.8
42.5°	6932.8	6901.0	6791.8	6470.4	5762.2	4994.8	4547.0	4586.1	4612.5	4361.2
45°	7299.7	7292.4	7336.1	7306.1	6840.0	6105.4	5295.2	5132.3	5142.3	4828.2
47.5°	7351.6	7347.9	7547.3	7829.5	7766.7	7358.0	6255.6	5813.2	5777.7	5355.3
50°	7045.7	7038.4	7420.8	7949.7	8385.7	8410.3	7346.1	6580.6	6502.3	5900.6
52.5°	6069.0	6067.2	6695.3	7575.5	8603.2	9331.5	8423.9	7423.5	7292.4	6477.7
55°	4669.8	4703.5	5423.6	6464.0	8206.4	9774.8	9391.6	8359.3	8158.1	7058.5
57.5°	3308.0	3357.2	4069.0	4995.7	6975.6	9512.6	10046.1	9296.9	9080.2	7637.4
60°	1776.9	1820.6	2533.4	3639.4	5189.6	8535.0	10391.1	10110.7	9905.9	8187.2
62.5°	1058.7	1073.2	1368.2	2349.5	3510.1	6520.5	10244.5	10730.6	10562.2	8648.8
65°	760.1	762.8	911.2	1434.6	2131.0	3961.6	9216.8	11027.4	10975.5	8996.5
67.5°	639.9	638.1	700.0	953.1	1451.9	1984.5	7063.9	10607.7	10828.0	9216.8
70°	548.9	551.6	624.5	698.2	1091.5	1123.3	3511.9	9235.9	9705.6	9275.1
72.5°	408.7	417.8	485.2	636.3	823.8	772.8	1212.5	6848.2	7697.5	8738.9
75°	288.6	293.1	341.4	535.3	614.5	562.6	619.0	3540.2	4628.9	6699.8
77.5°	222.1	230.3	258.5	374.1	605.3	395.1	378.7	1225.3	1882.5	4047.2
80°	120.2	134.7	186.6	270.4	425.1	279.5	187.5	487.9	638.1	1892.5
82.5°	61.9	69.2	130.2	194.8	242.1	244.0	92.9	203.0	263.1	584.4
85°	24.6	30.0	87.4	107.4	124.7	120.2	41.9	81.9	94.7	162.0
87.5°	5.5	9.1	31.9	24.6	23.7	25.5	10.0	19.1	18.2	19.1
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°
1633.1	0°	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1	1633.1
1644.0	2.5°	1643.1	1639.5	1629.4	1618.5	1605.8	1598.5	1593.9	1593.0	1586.7	1582.1
1680.4	5°	1670.4	1666.8	1647.6	1624.9	1600.3	1581.2	1563.0	1546.6	1522.9	1518.4
1733.2	7.5°	1725.0	1715.0	1684.1	1653.1	1606.7	1551.2	1483.8	1406.4	1337.2	1316.3
1803.3	10°	1792.4	1778.7	1739.6	1685.0	1582.1	1431.0	1268.0	1116.9	996.8	963.1
1886.1	12.5°	1868.8	1857.0	1805.1	1704.1	1479.2	1205.2	955.8	768.3	651.8	622.6
1974.4	15°	1959.9	1942.6	1870.7	1675.0	1295.4	915.8	656.3	545.3	503.4	497.9
2075.5	17.5°	2056.4	2028.1	1928.9	1570.3	1047.8	650.9	507.0	475.2	457.0	451.5
2177.4	20°	2144.7	2108.3	1963.5	1411.9	782.9	507.0	454.2	433.3	416.9	410.5
2279.4	22.5°	2233.0	2181.1	1963.5	1196.1	587.1	449.7	416.9	397.8	378.7	370.5
2388.6	25°	2324.9	2255.7	1928.9	955.8	472.4	412.4	381.4	360.5	344.1	334.1
2492.4	27.5°	2414.1	2318.5	1849.7	728.2	420.6	379.6	348.6	328.6	313.1	305.9
2605.3	30°	2498.8	2380.4	1738.7	552.6	386.9	347.7	318.6	301.3	285.8	278.6
2751.8	32.5°	2613.5	2458.7	1620.3	453.3	357.7	317.7	291.3	274.9	261.3	255.8
2942.1	35°	2772.8	2574.3	1518.4	445.1	333.2	293.1	266.7	251.2	237.6	233.0
3187.9	37.5°	2998.5	2760.9	1464.7	499.8	313.1	271.3	246.7	230.3	217.6	213.9
3500.1	40°	3277.1	3014.0	1493.8	554.4	299.5	252.2	228.5	212.1	201.2	196.6
3858.8	42.5°	3607.5	3326.2	1654.9	596.2	290.4	235.8	211.2	193.0	185.7	183.9
4265.7	45°	3987.1	3669.4	1901.6	640.9	275.8	220.3	193.9	180.2	174.8	173.9
4708.1	47.5°	4418.6	4046.3	2187.5	696.4	261.3	205.7	180.2	171.1	166.6	164.8
5169.6	50°	4846.4	4425.9	2481.5	727.3	249.4	192.1	169.3	162.0	158.4	157.5
5657.5	52.5°	5294.3	4816.4	2719.1	698.2	239.4	181.1	160.2	154.8	151.1	150.2
6107.2	55°	5721.2	5132.3	2760.0	592.6	219.4	170.2	150.2	147.5	142.9	142.9
6563.3	57.5°	6089.0	5290.7	2470.6	435.1	199.4	153.8	140.2	137.5	133.8	132.9
6974.7	60°	6426.7	5245.2	1907.1	293.1	177.5	137.5	127.4	125.6	122.0	117.4
7332.5	62.5°	6617.0	5044.9	1304.5	191.2	155.7	120.2	112.9	112.0	103.8	94.7
7597.4	65°	6688.9	4633.4	813.8	139.3	130.2	102.9	97.4	95.6	83.7	73.7
7747.6	67.5°	6626.1	3956.2	410.5	110.1	102.9	85.6	80.1	80.1	71.9	62.8
7738.5	70°	6374.8	2965.8	173.0	88.3	79.2	65.5	65.5	69.2	61.0	51.0
7337.0	72.5°	5829.6	1995.4	91.9	67.4	59.2	46.4	53.7	56.4	48.2	38.2
6005.3	75°	4634.3	1217.1	63.7	50.1	37.3	32.8	41.0	42.8	32.8	25.5
4117.3	77.5°	3169.7	699.1	42.8	31.9	23.7	19.1	28.2	26.4	17.3	11.8
1587.6	80°	1391.8	291.3	24.6	14.6	9.1	7.3	10.0	7.3	5.5	3.6
217.6	82.5°	162.9	68.3	9.1	5.5	3.6	1.8	0.9	0.0	0.0	0.0
66.5	85°	33.7	8.2	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
11.8	87.5°	6.4	1.8	0.9	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

180°
1633.1
1586.7
1516.6
1306.3
950.4
614.5
492.5
448.8
406.9
365.9
330.4
305.9
279.5
255.8
233.0
213.0
195.7
183.9
173.0
164.8
157.5
150.2
142.0
132.0
116.5
92.9
72.8
61.9
50.1
38.2
24.6
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