

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: P946439

Luminaire Tested: **GALN-SB2A-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

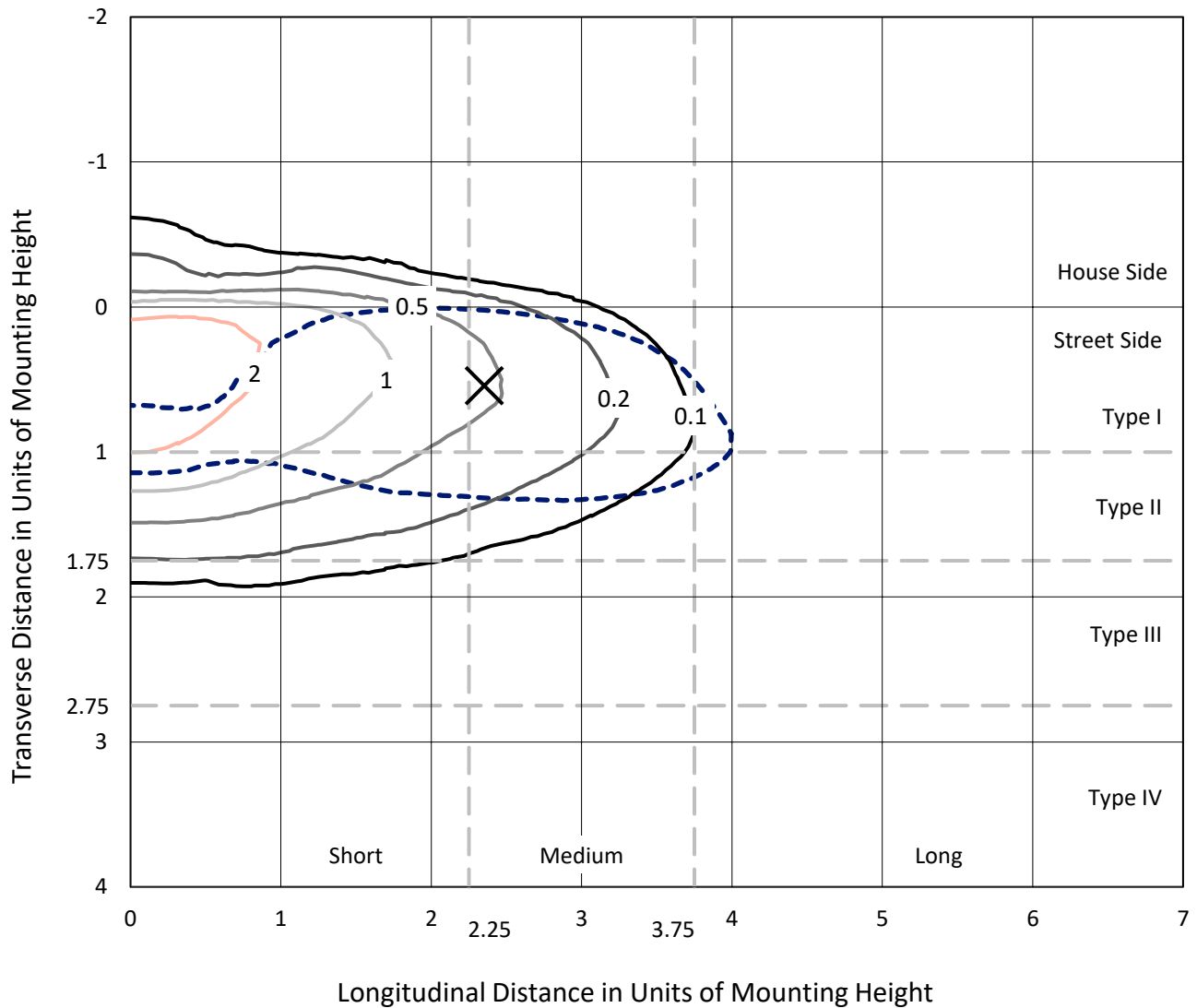
Lumens per Lamp: N/A  
Luminaire Lumens: 6825 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

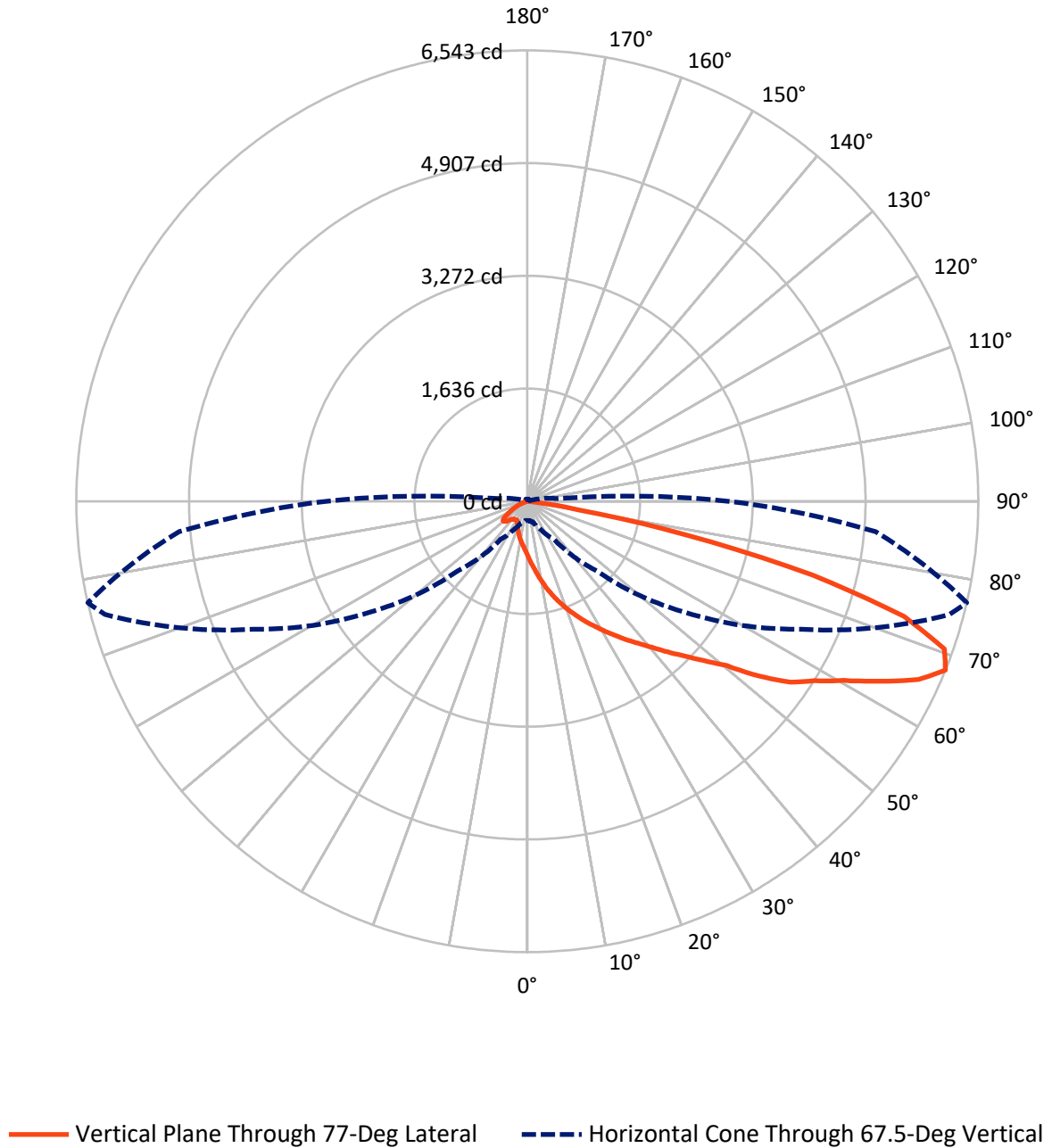
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	502.1	0.0	502.1
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	6322.9	0.0	6322.9
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	6825.0	0.0	6825.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	1.2
10°-20°	281.3	4.1
20°-30°	542.8	8.0
30°-40°	942.4	13.8
40°-50°	1368.3	20.0
50°-60°	1571.3	23.0
60°-70°	1364.2	20.0
70°-80°	642.6	9.4
80°-90°	31.8	0.5
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°	6825.0	100.0
0°-180°	6825.0	100.0

**Coefficient of Utilization**



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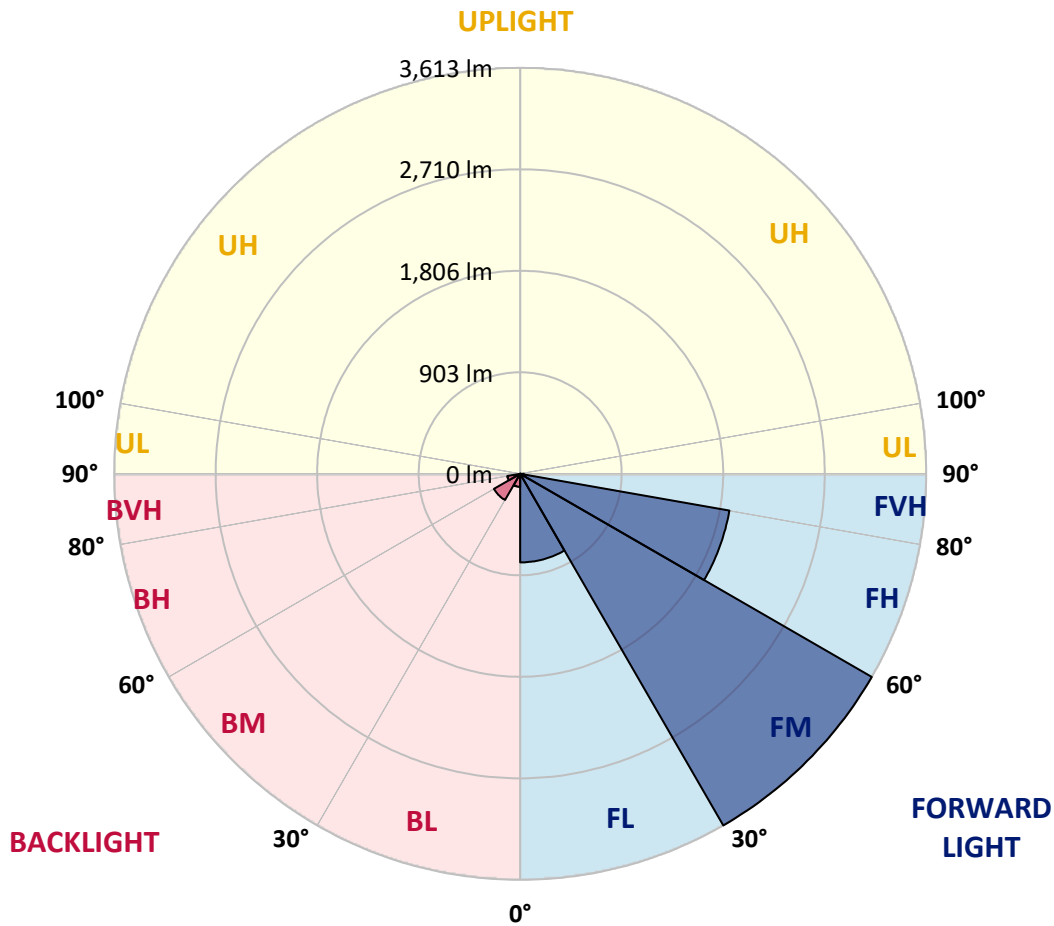
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.2	11.5			
FM (30°-60°)	3613.0	52.9			
FH (60°-80°)	1890.5	27.7			G2/5000
FVH (80°-90°)	31.2	0.5			G1/100
BL (0°-30°)	116.2	1.7	B1/500		
BM (30°-60°)	269.0	3.9	B1/1000		
BH (60°-80°)	116.2	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	1089.6	1096.4	1086.7	1068.0	1040.0	1021.8	977.3	935.4	888.7	873.9
5°	1328.2	1334.2	1323.1	1302.8	1265.5	1229.9	1171.4	1083.7	992.6	963.3
7.5°	1505.0	1508.4	1504.1	1485.5	1449.9	1409.6	1344.3	1240.5	1105.3	1073.1
10°	1632.1	1643.1	1641.9	1634.7	1610.9	1578.3	1508.8	1390.5	1231.6	1190.1
12.5°	1716.4	1728.7	1735.9	1752.0	1750.8	1730.0	1669.0	1544.0	1357.5	1308.7
15°	1741.0	1754.2	1781.7	1819.0	1852.1	1862.7	1819.9	1694.4	1496.1	1433.8
17.5°	1727.0	1747.4	1780.4	1839.4	1911.8	1959.7	1955.1	1839.8	1621.9	1550.7
20°	1758.0	1777.5	1803.3	1852.9	1937.3	2024.1	2058.9	1978.8	1747.0	1672.4
22.5°	1929.2	1925.8	1928.4	1936.4	1986.8	2072.9	2144.5	2105.1	1870.7	1794.4
25°	2200.4	2185.2	2159.3	2115.7	2103.0	2144.5	2219.1	2217.0	2001.3	1919.5
27.5°	2511.5	2509.0	2448.4	2343.3	2283.9	2267.8	2303.4	2325.9	2130.5	2043.2
30°	2809.5	2816.2	2734.4	2617.5	2508.6	2445.4	2413.2	2429.3	2261.9	2176.7
32.5°	3068.8	3076.0	2987.0	2850.1	2715.4	2639.1	2571.3	2531.4	2405.1	2312.3
35°	3287.9	3295.2	3193.0	3041.7	2898.0	2829.0	2752.2	2643.3	2549.2	2462.8
37.5°	3483.8	3481.6	3344.7	3192.2	3051.0	2996.4	2956.1	2781.1	2697.6	2614.1
40°	3599.5	3608.4	3491.4	3323.1	3186.2	3146.4	3143.9	2951.9	2868.8	2787.8
42.5°	3633.4	3649.0	3564.3	3426.1	3301.9	3258.7	3325.2	3136.6	3068.0	2989.2
45°	3572.3	3587.6	3549.0	3453.2	3380.8	3352.8	3481.2	3328.2	3280.7	3202.8
47.5°	3394.3	3413.4	3422.7	3402.4	3401.5	3429.9	3621.1	3529.9	3533.3	3453.7
50°	3049.8	3082.0	3167.6	3239.6	3351.1	3491.0	3757.1	3748.6	3818.1	3749.5
52.5°	2423.4	2469.1	2764.1	2961.2	3211.7	3479.5	3906.7	4099.6	4317.8	4217.4
55°	1947.4	1947.4	2187.3	2556.0	2939.6	3404.1	3972.0	4327.6	4658.1	4634.4
57.5°	1587.6	1606.7	1759.7	2085.6	2545.9	3224.4	4012.2	4470.8	4932.3	4915.0
60°	979.9	1021.0	1310.0	1631.7	2097.9	2904.4	3986.8	4615.8	5265.0	5279.0
62.5°	551.8	567.1	695.9	1174.0	1631.3	2474.2	3792.3	4696.7	5690.6	5749.9
65°	381.0	388.6	438.2	730.7	1130.7	1969.9	3412.1	4646.3	6116.9	6236.8
67.5°	276.8	280.6	311.5	446.3	670.9	1428.3	2816.2	4392.0	6342.8	6543.3
70°	212.8	215.3	237.8	293.3	396.3	881.5	2045.3	3886.4	6179.2	6418.7
72.5°	172.9	175.5	192.8	217.0	262.8	521.3	1239.7	3156.1	5457.0	5715.6
75°	145.8	149.2	164.9	180.5	206.0	334.8	581.5	2197.9	4103.8	4273.3
77.5°	80.9	74.6	133.9	149.6	173.8	211.9	272.1	1293.5	2298.3	2345.4
80°	50.4	52.1	106.4	120.4	133.5	106.8	124.6	498.0	796.8	756.9
82.5°	3.0	6.8	81.8	86.9	91.5	45.8	47.0	169.1	192.0	176.3
85°	0.0	0.0	37.3	30.1	31.8	13.1	13.6	39.4	25.9	28.0
87.5°	0.0	0.0	0.0	0.8	0.0	1.3	2.5	3.4	1.3	1.7
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°
787.0	0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
827.3	2.5°	797.6	768.0	707.8	648.9	601.0	556.5	524.7	494.6	479.3	478.5
880.7	5°	821.8	759.5	639.1	532.7	447.1	378.5	334.0	302.2	286.1	280.6
946.4	7.5°	855.7	762.0	578.9	431.0	330.2	271.2	245.8	235.6	232.3	228.4
1020.5	10°	898.5	768.0	525.1	347.1	260.2	230.6	220.4	216.1	213.6	211.1
1104.0	12.5°	946.4	773.5	471.7	288.2	228.9	213.6	206.4	201.3	197.9	195.0
1189.6	15°	993.0	776.9	416.2	247.1	212.8	200.5	192.8	187.3	182.7	179.3
1273.6	17.5°	1039.2	781.5	364.1	222.5	199.6	187.3	179.7	172.9	169.1	165.3
1361.7	20°	1090.5	780.7	314.9	205.1	186.5	174.2	166.1	159.8	156.0	151.7
1455.0	22.5°	1137.9	776.4	271.7	190.3	172.9	161.0	152.1	145.8	142.0	138.6
1550.3	25°	1192.6	773.0	235.6	176.7	160.2	148.3	138.6	132.7	128.4	125.4
1646.1	27.5°	1245.2	768.0	209.4	164.4	147.9	136.5	127.1	120.4	116.5	114.4
1744.8	30°	1296.9	766.7	199.6	152.6	136.9	125.4	116.1	109.8	106.8	106.0
1853.3	32.5°	1359.2	770.1	203.9	148.3	126.7	115.3	106.4	101.7	98.7	98.7
1974.1	35°	1425.7	769.2	210.2	152.1	119.9	105.1	98.3	95.4	92.4	92.4
2108.1	37.5°	1509.2	770.5	215.3	158.5	117.4	96.6	92.8	89.0	87.3	87.3
2254.7	40°	1633.8	812.5	212.8	164.0	116.5	90.7	83.1	81.8	80.5	80.5
2420.4	42.5°	1786.4	903.6	216.1	164.4	116.1	86.5	76.3	78.8	75.9	75.4
2607.3	45°	1953.4	1003.2	237.8	155.5	115.7	84.3	72.9	75.9	71.2	71.2
2823.9	47.5°	2119.1	1101.9	259.8	142.8	114.4	83.9	69.9	68.2	67.0	67.4
3106.1	50°	2347.5	1182.4	268.3	125.4	111.5	83.1	64.4	64.8	64.0	64.8
3504.1	52.5°	2596.3	1199.4	258.1	106.0	103.0	80.5	60.6	62.3	61.9	62.7
3784.2	55°	2751.4	1181.2	213.2	88.2	89.8	70.4	56.8	60.2	60.2	60.2
4058.0	57.5°	2911.6	1103.6	151.3	71.6	74.6	57.6	53.4	58.1	57.6	57.2
4387.7	60°	3026.9	978.2	99.6	58.9	59.3	47.5	49.6	54.7	54.2	52.1
4727.6	62.5°	3112.9	839.6	64.0	50.0	45.3	42.8	45.3	49.6	47.9	43.2
5015.8	65°	3103.2	647.6	49.2	42.8	37.3	37.3	39.4	43.2	38.1	30.5
5070.9	67.5°	2922.2	438.2	40.7	36.0	31.4	30.9	32.6	36.0	32.6	25.9
4788.7	70°	2598.8	286.5	32.6	28.0	25.0	22.9	26.3	30.9	27.5	20.8
4076.7	72.5°	2109.3	174.6	24.6	20.3	18.2	14.8	20.8	25.4	22.0	15.3
2834.9	75°	1364.7	89.0	17.0	13.1	9.7	8.9	15.3	19.1	15.3	9.3
1257.9	77.5°	522.1	37.3	9.3	5.9	5.1	4.2	8.5	11.4	6.4	2.1
243.7	80°	100.4	15.7	4.7	3.0	2.5	1.7	1.3	0.8	0.0	0.0
43.2	82.5°	17.4	5.1	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
8.5	85°	5.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.0	87.5°	2.1	0.0	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>
787.0
477.6
279.7
227.6
210.2
194.1
178.8
164.9
151.3
138.2
125.0
114.4
105.5
98.7
92.4
87.3
80.5
75.0
71.2
67.4
64.8
62.7
60.2
57.2
52.1
42.4
29.7
25.0
19.9
14.4
8.1
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