

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: P939464

Luminaire Tested: **GALN-SB2A-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

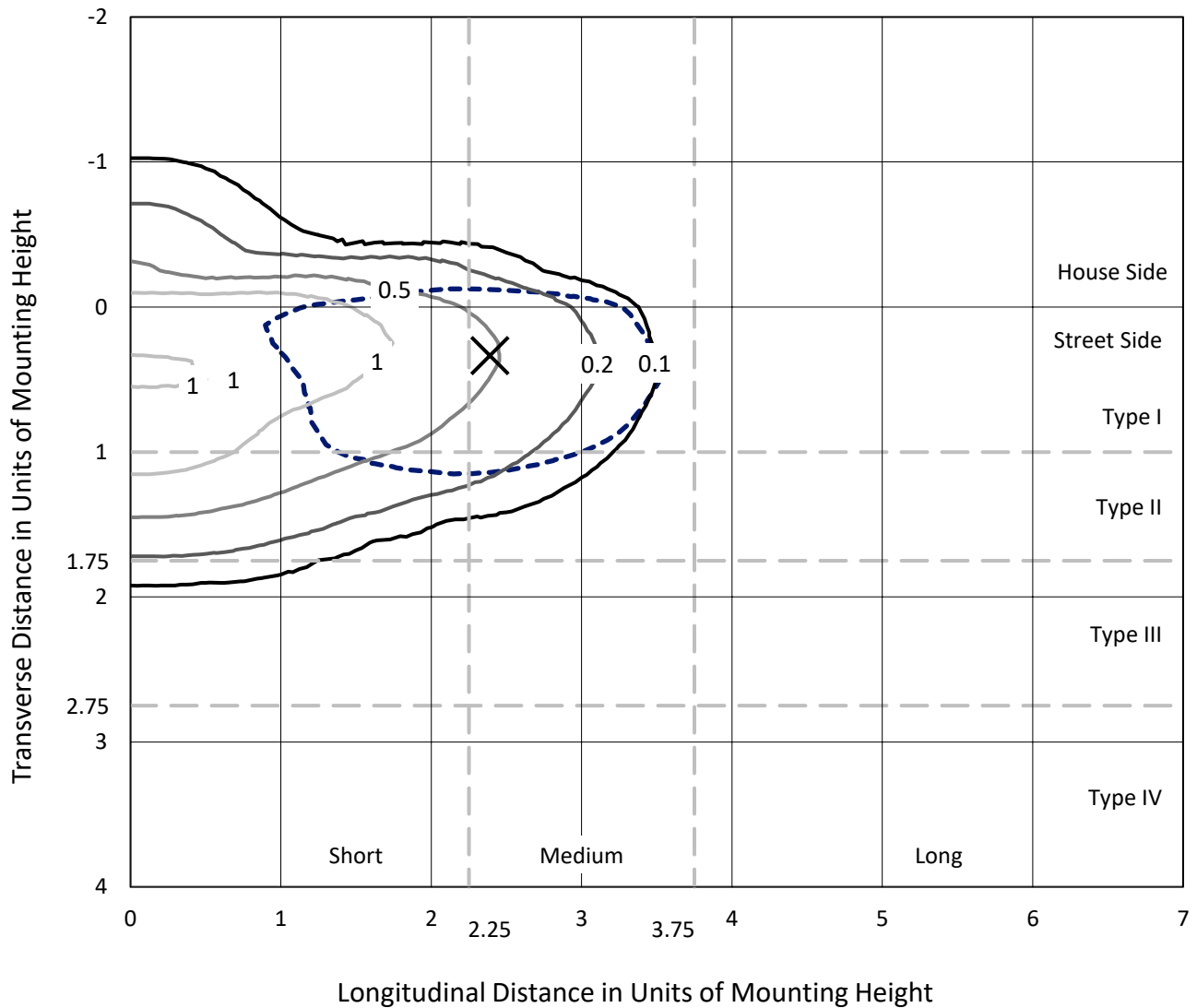
Lumens per Lamp: N/A  
Luminaire Lumens: 5696 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

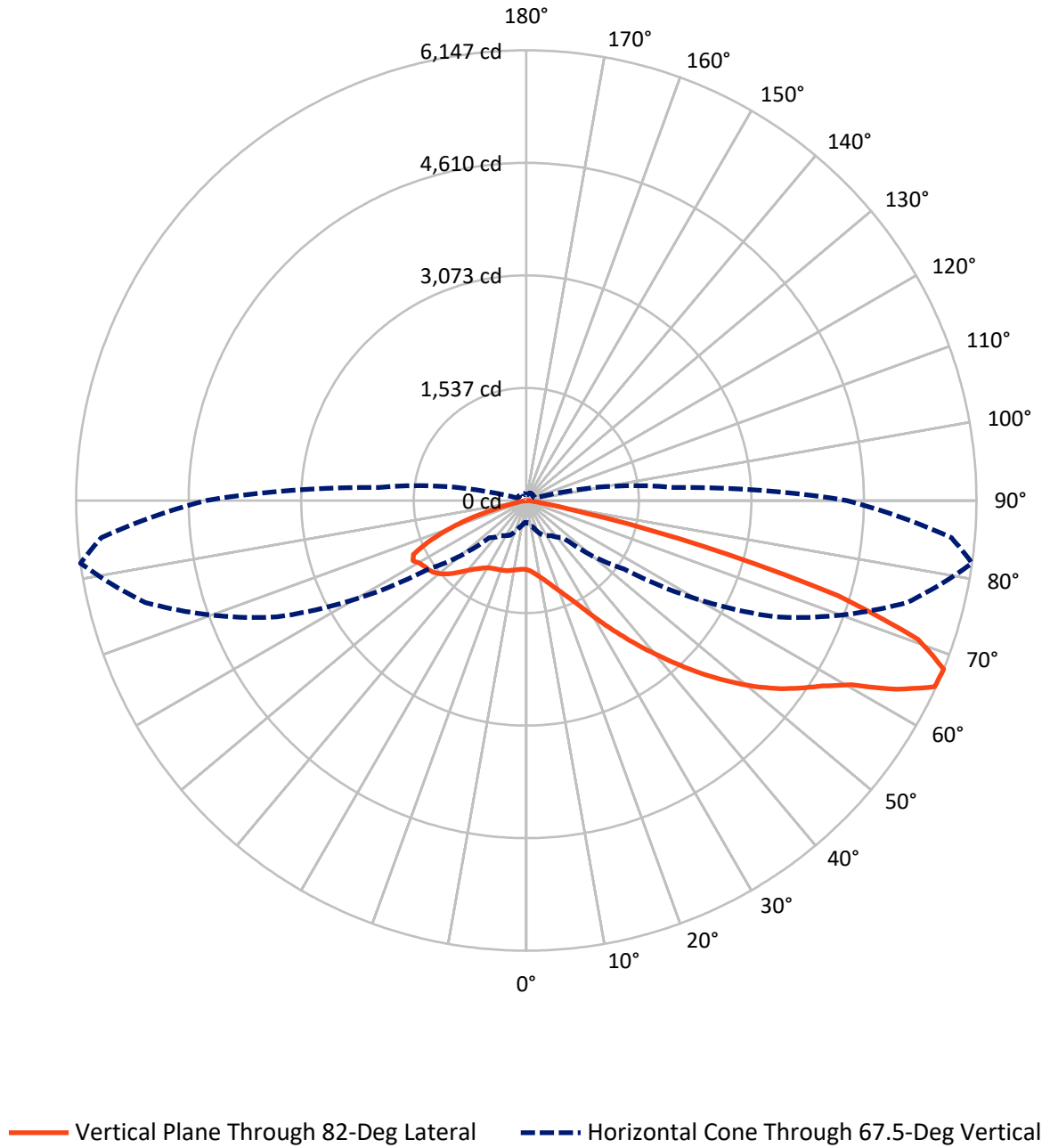
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1031.8	0.0	1031.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	4664.2	0.0	4664.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	5696.0	0.0	5696.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.1	1.5
10°-20°	218.5	3.8
20°-30°	349.9	6.1
30°-40°	618.8	10.9
40°-50°	1084.1	19.0
50°-60°	1445.9	25.4
60°-70°	1346.1	23.6
70°-80°	516.6	9.1
80°-90°	32.1	0.6
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°	5696.0	100.0
0°-180°	5696.0	100.0

**Coefficient of Utilization**



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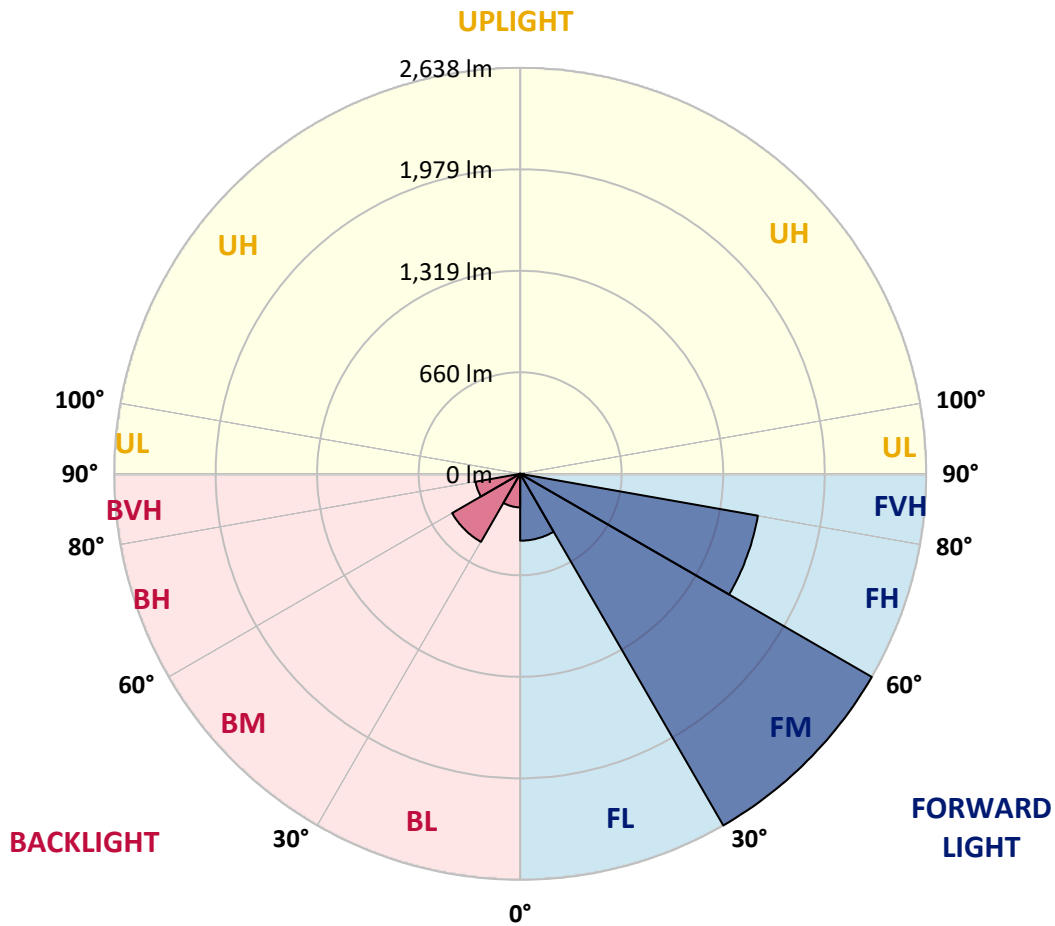
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.5	7.6			
FM (30°-60°)	2638.2	46.3			
FH (60°-80°)	1568.2	27.5			G1/1800
FVH (80°-90°)	23.3	0.4			G1/100
BL (0°-30°)	217.9	3.8	B1/500		
BM (30°-60°)	510.6	9.0	B1/1000		
BH (60°-80°)	294.5	5.2	B1/500		G1/500
BVH (80°-90°)	8.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	997.4	1003.1	999.8	998.2	995.3	991.2	987.9	977.7	967.0	960.0
5°	1017.5	1023.2	1022.8	1024.4	1026.5	1027.7	1026.9	1015.4	1000.2	988.3
7.5°	1000.2	1006.8	1012.1	1020.3	1034.7	1049.8	1057.2	1054.8	1039.2	1022.8
10°	951.4	958.4	971.1	990.4	1020.7	1053.5	1081.0	1093.7	1083.9	1065.8
12.5°	862.0	869.0	894.0	935.8	986.7	1043.7	1096.2	1130.2	1132.7	1114.6
15°	761.6	768.5	795.2	847.7	925.2	1016.6	1104.4	1168.8	1190.5	1174.9
17.5°	699.2	705.4	725.5	767.7	848.5	962.5	1101.5	1209.8	1259.4	1247.1
20°	680.4	685.7	695.1	724.6	791.9	906.3	1082.7	1248.3	1333.6	1326.7
22.5°	700.4	705.4	708.2	721.4	763.6	869.4	1058.9	1287.7	1419.8	1420.6
25°	746.8	751.7	748.4	756.6	775.1	857.9	1049.8	1334.0	1528.0	1537.0
27.5°	823.1	823.5	815.7	815.3	818.1	875.1	1059.3	1383.7	1664.6	1681.4
30°	976.0	969.9	939.9	907.5	892.8	926.8	1085.5	1442.3	1825.8	1855.7
32.5°	1211.8	1202.8	1147.9	1070.4	992.4	1010.1	1132.7	1509.2	2001.3	2055.4
35°	1467.7	1465.3	1407.9	1292.6	1156.5	1128.6	1209.4	1596.9	2192.8	2278.9
37.5°	1705.6	1704.4	1671.6	1535.8	1370.1	1293.9	1332.4	1711.7	2397.8	2522.5
40°	1922.9	1926.6	1893.8	1772.4	1605.5	1505.9	1499.7	1853.6	2625.9	2787.8
42.5°	2110.8	2114.9	2081.7	1991.8	1838.1	1740.5	1705.2	2027.5	2848.5	3072.9
45°	2238.3	2263.7	2258.8	2187.1	2076.7	1975.4	1952.1	2245.7	3102.4	3375.1
47.5°	2274.4	2297.8	2334.7	2344.5	2277.3	2177.6	2205.5	2508.6	3359.1	3677.8
50°	2185.4	2207.1	2283.8	2385.9	2432.7	2401.9	2452.0	2790.3	3622.0	3979.6
52.5°	2009.9	2032.0	2128.8	2290.4	2481.1	2577.9	2699.3	3067.9	3876.7	4265.4
55°	1756.0	1779.4	1903.7	2086.6	2388.8	2650.5	2905.5	3345.2	4110.0	4522.6
57.5°	1410.7	1428.0	1557.1	1813.0	2156.7	2578.3	3057.7	3647.8	4329.8	4775.2
60°	919.4	934.6	1084.7	1370.1	1772.0	2337.1	3088.0	3985.3	4621.8	5103.7
62.5°	611.5	621.7	710.7	920.3	1247.9	1874.1	2910.5	4254.8	5049.9	5675.3
65°	419.5	429.8	518.8	664.8	806.3	1239.7	2399.9	4219.1	5437.9	6129.3
67.5°	299.4	308.0	383.4	521.2	583.6	720.1	1626.9	3763.1	5382.1	6146.5
70°	214.5	219.4	281.7	406.0	463.8	432.7	904.7	2878.1	4712.4	5675.7
72.5°	150.1	151.7	195.6	309.2	373.6	315.8	430.6	1918.8	3564.2	4454.9
75°	101.7	103.8	131.6	226.8	299.8	241.1	228.0	1028.9	2092.3	2465.9
77.5°	62.3	63.2	84.9	155.0	224.3	183.7	146.8	435.9	809.5	794.8
80°	35.3	35.3	54.1	96.4	153.0	118.5	102.9	185.4	256.3	225.1
82.5°	19.7	20.1	39.4	59.9	101.3	70.1	56.6	85.7	110.7	98.0
85°	8.2	9.0	24.2	28.3	48.4	34.9	23.0	36.1	41.0	36.5
87.5°	0.8	1.2	7.4	5.3	5.7	7.0	3.3	7.0	5.7	5.7
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°
943.6	0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
957.6	2.5°	949.8	943.6	928.1	910.0	886.2	874.7	859.2	848.5	839.5	840.3
981.4	5°	968.2	952.7	917.8	874.3	820.2	781.6	740.6	712.3	689.4	684.5
1014.2	7.5°	993.7	969.1	908.0	829.6	738.2	668.9	606.9	567.2	538.9	529.8
1054.0	10°	1026.5	990.8	895.2	773.4	641.8	553.6	487.2	456.0	436.8	430.2
1100.7	12.5°	1064.6	1015.8	878.4	705.0	542.6	457.7	415.4	399.8	393.7	391.6
1158.1	15°	1112.6	1047.0	853.0	623.8	458.5	399.0	381.0	378.9	379.8	378.9
1227.0	17.5°	1169.6	1081.0	811.6	540.1	401.9	369.1	362.5	364.2	366.2	365.8
1304.1	20°	1231.9	1114.6	758.7	465.9	363.3	347.8	344.1	345.7	347.4	346.5
1393.1	22.5°	1302.9	1150.7	700.0	408.0	337.5	328.1	324.0	324.4	324.4	322.7
1505.9	25°	1387.8	1190.5	638.5	367.0	317.8	310.4	305.5	303.9	301.4	296.5
1642.9	27.5°	1489.1	1232.8	579.5	338.3	302.2	295.3	289.5	285.4	279.3	271.1
1807.3	30°	1603.1	1284.0	529.4	320.3	289.9	283.0	276.4	270.3	261.2	251.0
1996.4	32.5°	1737.2	1339.0	492.9	308.4	278.9	271.5	263.7	256.3	246.5	236.2
2208.8	35°	1897.1	1405.4	471.6	300.2	270.3	260.4	251.8	243.6	236.2	227.2
2439.7	37.5°	2070.6	1475.9	465.1	296.1	264.5	249.3	239.5	233.8	232.9	227.6
2689.4	40°	2260.5	1559.6	470.0	293.6	258.4	238.7	228.0	226.8	228.8	219.4
2956.4	42.5°	2461.4	1658.8	478.2	290.8	249.7	228.0	217.8	217.8	216.1	203.0
3238.5	45°	2678.8	1773.3	486.4	283.8	239.5	217.4	209.6	206.7	199.7	187.0
3522.3	47.5°	2897.7	1889.7	492.5	271.1	227.2	208.3	201.4	194.8	184.5	173.1
3800.8	50°	3105.7	1994.3	486.0	252.2	213.3	199.7	192.3	183.3	172.2	164.4
4064.5	52.5°	3291.4	2084.9	458.1	230.1	198.5	190.7	184.1	174.7	165.7	157.5
4302.3	55°	3453.0	2158.3	408.9	209.1	185.4	182.9	176.3	164.4	152.1	145.2
4538.1	57.5°	3608.0	2214.1	347.4	191.9	173.5	174.3	164.4	153.8	142.3	134.9
4856.0	60°	3814.3	2288.8	285.0	175.9	160.8	163.2	152.6	144.8	130.4	121.0
5401.0	62.5°	4144.0	2404.8	226.4	156.2	146.0	146.8	142.3	132.9	115.6	104.6
5804.9	65°	4405.7	2362.2	178.4	134.9	129.2	130.4	130.4	120.2	101.7	89.0
5826.7	67.5°	4376.2	2022.6	142.3	114.0	113.2	114.0	116.9	108.3	90.2	80.0
5382.9	70°	4031.3	1608.8	114.0	94.7	98.4	96.4	104.6	98.8	81.2	70.9
4173.2	72.5°	3289.4	1158.9	86.9	78.3	75.5	78.7	94.3	89.0	67.7	56.2
2210.4	75°	1922.1	618.4	64.8	61.9	54.5	65.6	83.7	75.9	51.7	41.4
677.5	77.5°	625.8	215.7	47.6	45.5	40.6	52.9	71.4	64.0	42.2	32.8
198.5	80°	167.7	65.2	32.4	29.9	26.2	39.4	56.6	50.9	30.3	21.3
85.3	82.5°	67.3	27.5	18.9	16.8	14.4	27.1	44.7	41.0	22.6	13.5
26.7	85°	21.7	9.0	7.0	5.3	6.6	16.8	26.7	27.9	16.0	7.0
4.1	87.5°	2.9	1.2	1.2	1.6	1.2	2.9	8.2	7.8	4.5	0.8
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>
943.6
832.1
673.4
520.8
425.3
390.4
378.5
365.0
346.1
321.9
295.7
270.3
250.2
236.6
226.4
227.2
219.8
203.0
186.6
172.7
163.2
156.7
144.4
134.1
119.7
103.8
87.8
78.3
69.7
55.0
40.2
31.6
20.9
13.5
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