

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: P957071

Luminaire Tested: **GALN-SB9C-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9C-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

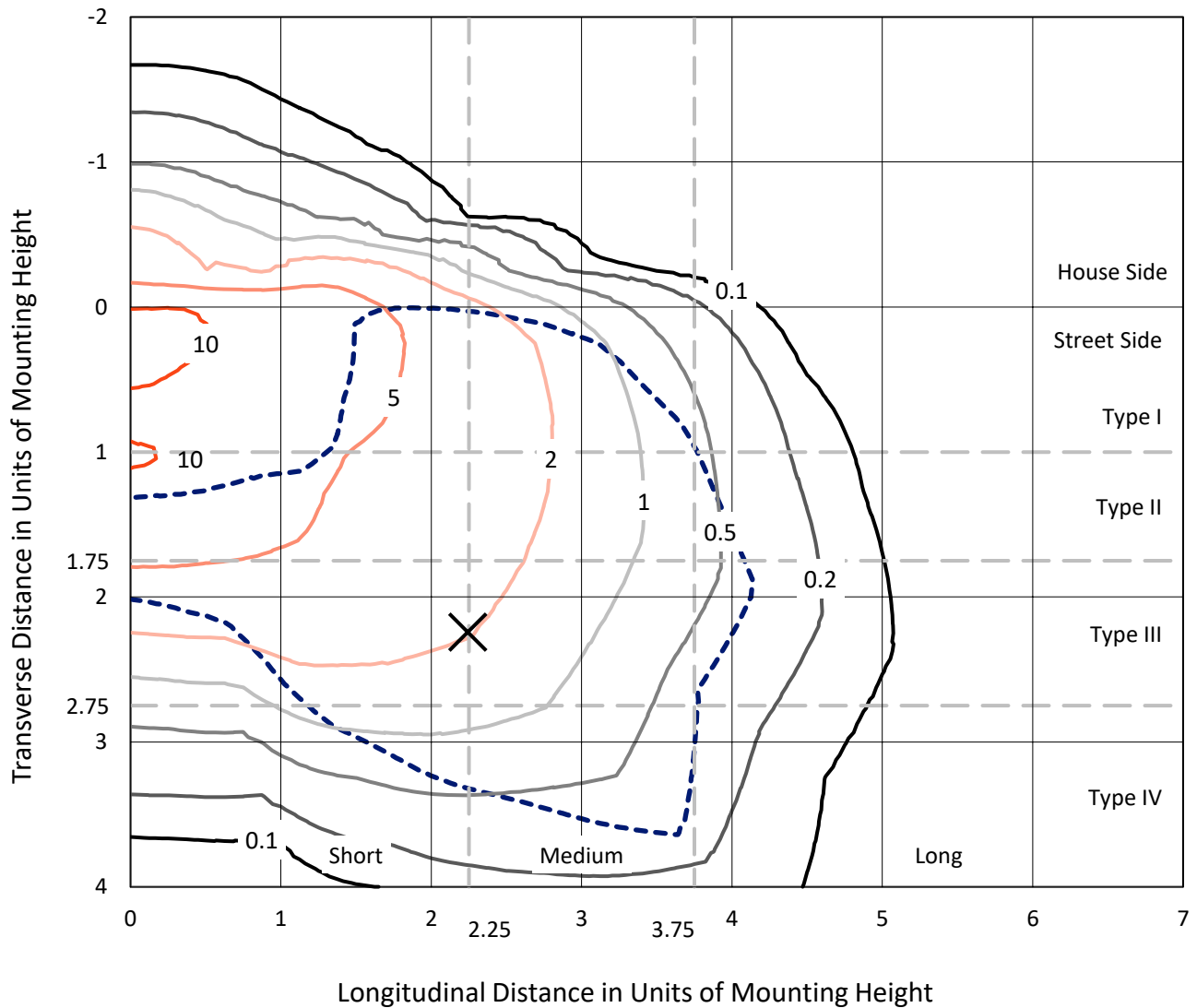
Lumens per Lamp: N/A  
Luminaire Lumens: 55590 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

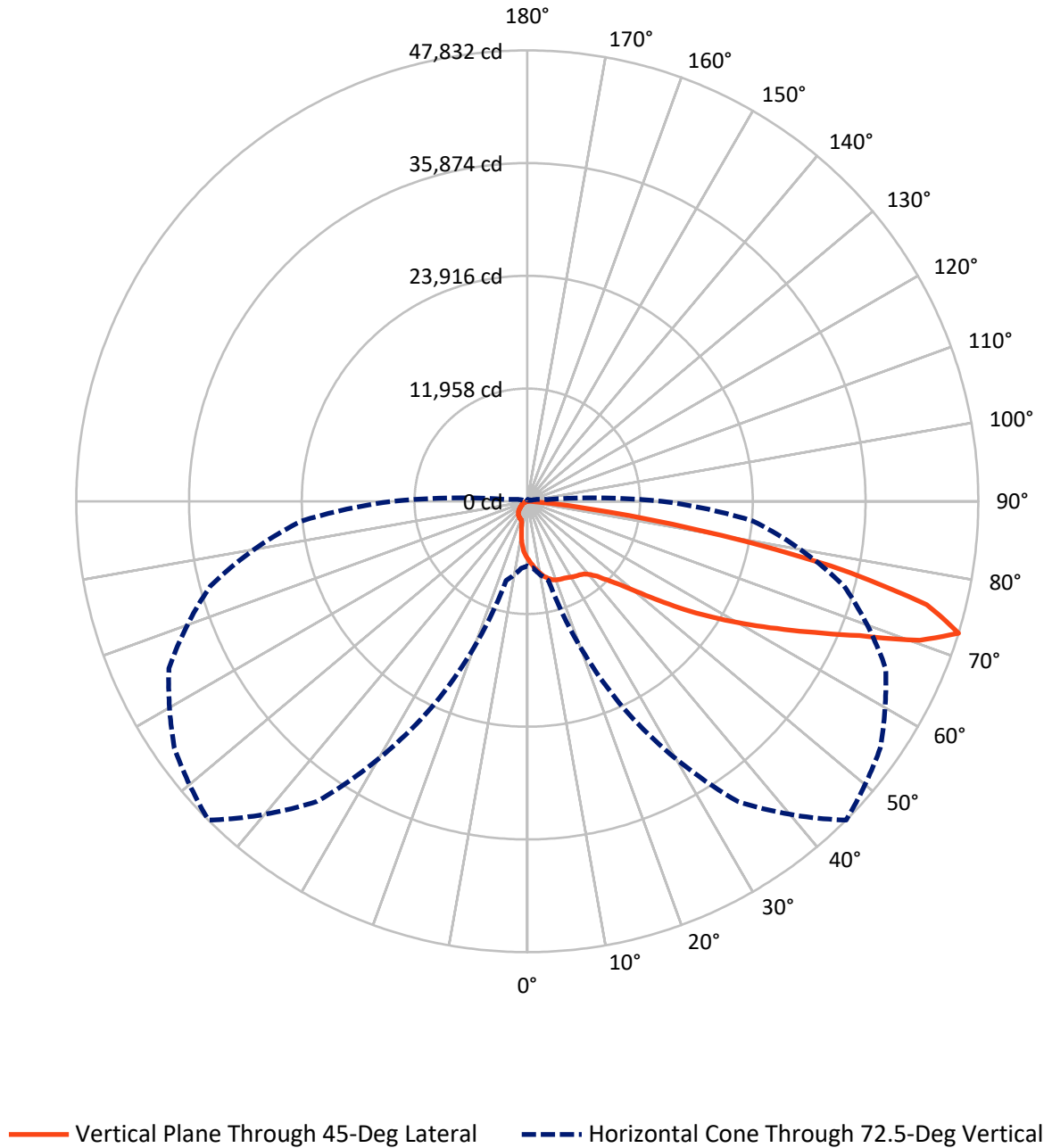
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	5841.0	0.0	5841.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	49749.0	0.0	49749.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	55590.0	0.0	55590.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.8	1.0
10°-20°	1677.0	3.0
20°-30°	2753.9	5.0
30°-40°	3905.6	7.0
40°-50°	6455.6	11.6
50°-60°	11596.7	20.9
60°-70°	16102.6	29.0
70°-80°	11680.4	21.0
80°-90°	844.4	1.5
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°	55590.0	100.0
0°-180°	55590.0	100.0

**Coefficient of Utilization**



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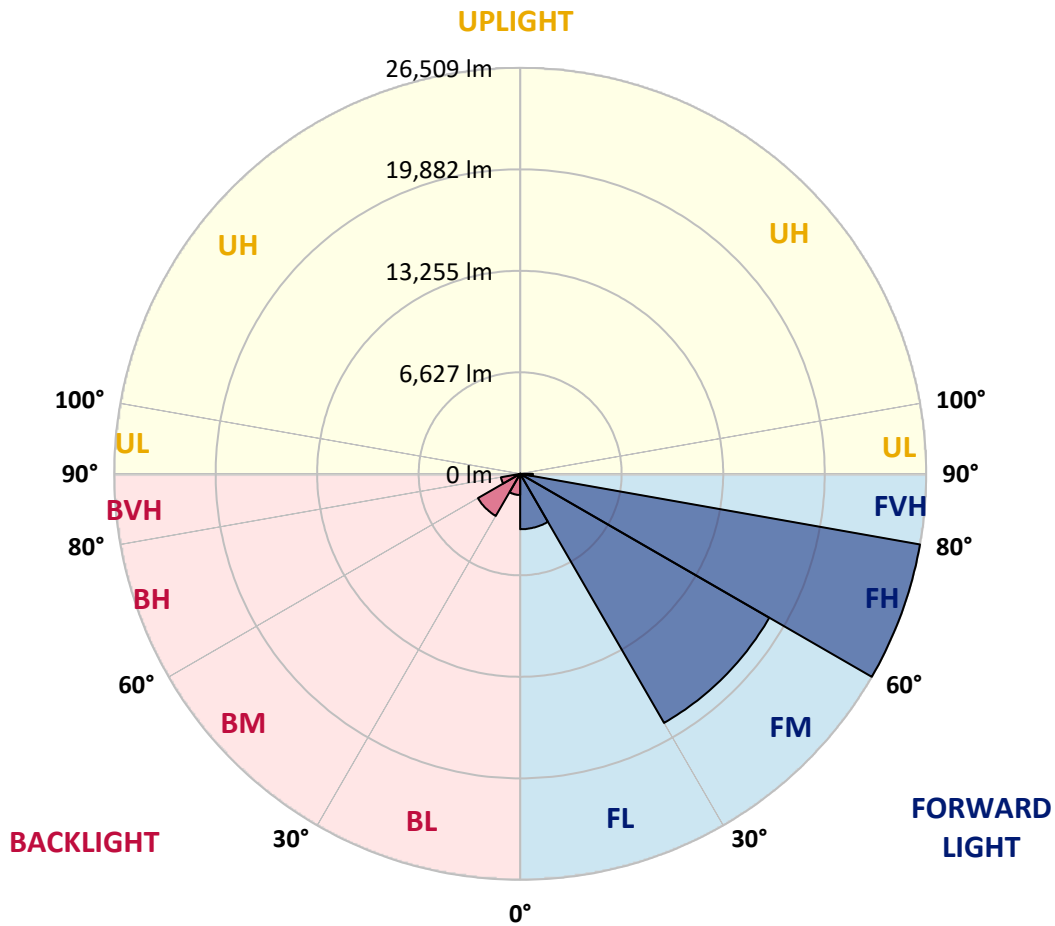
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3621.1	6.5			
FM (30°-60°)	18781.3	33.8			
FH (60°-80°)	26509.3	47.7			G5
FVH (80°-90°)	837.3	1.5			G5
BL (0°-30°)	1383.5	2.5	B3/2500		
BM (30°-60°)	3176.7	5.7	B3/5000		
BH (60°-80°)	1273.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	7.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0
2.5°	6651.6	6663.0	6655.4	6609.8	6533.9	6492.2	6469.4	6393.6	6344.2	6257.0
5°	7262.5	7308.0	7281.4	7190.4	7046.2	6943.7	6913.4	6757.8	6617.4	6454.3
7.5°	7911.3	7934.1	7884.8	7767.1	7573.6	7399.1	7372.5	7156.2	6932.4	6681.9
10°	8472.9	8499.4	8423.6	8252.8	8032.7	7816.5	7778.5	7539.5	7273.9	6966.5
12.5°	8943.4	8969.9	8871.3	8666.4	8423.6	8199.7	8161.7	7911.3	7619.1	7277.6
15°	9300.1	9349.4	9216.6	8996.5	8734.7	8510.8	8491.9	8245.2	7960.6	7581.2
17.5°	9508.8	9558.1	9432.9	9167.3	8943.4	8753.7	8730.9	8526.0	8260.4	7896.1
20°	9542.9	9588.4	9455.6	9224.2	9038.2	8886.5	8875.1	8727.1	8533.6	8184.5
22.5°	9440.5	9497.4	9375.9	9190.0	9061.0	8981.3	8966.2	8882.7	8772.6	8476.7
25°	9334.2	9379.7	9288.7	9125.5	9057.2	9049.6	9061.0	9045.8	9023.1	8772.6
27.5°	9326.6	9375.9	9273.5	9117.9	9080.0	9159.7	9171.1	9243.1	9262.1	9042.0
30°	9391.1	9425.3	9326.6	9163.5	9144.5	9326.6	9330.4	9459.4	9489.8	9269.7
32.5°	9531.5	9569.5	9470.8	9231.8	9205.2	9459.4	9470.8	9641.6	9690.9	9512.5
35°	9861.6	9907.2	9793.3	9421.5	9326.6	9584.6	9618.8	9819.9	9918.5	9770.6
37.5°	10685.0	10552.2	10396.6	9804.7	9603.6	9781.9	9838.9	10074.1	10248.7	10077.9
40°	12730.2	12312.8	11827.1	10457.4	10089.3	10203.1	10248.7	10483.9	10723.0	10556.0
42.5°	15799.9	15306.6	14524.9	11959.9	10821.6	10878.5	10912.7	11117.6	11455.3	11322.5
45°	18535.6	18357.3	17560.5	14524.9	12191.4	11910.6	11952.3	12058.6	12555.7	12506.3
47.5°	20637.7	20535.3	19920.6	17469.4	14506.0	13174.1	13291.8	13341.1	14058.2	14232.8
50°	22254.1	22216.2	21666.0	20087.5	17530.1	15037.2	15078.9	14972.7	16046.5	16479.1
52.5°	23779.5	23908.5	23502.5	22519.7	20759.1	17477.0	17469.4	16968.5	18418.0	19070.6
55°	25156.8	25202.4	25244.1	25001.3	24007.1	20254.5	20182.4	19362.8	21168.9	21844.3
57.5°	26450.7	26469.7	26841.5	27338.6	27387.9	23236.9	23104.1	22121.3	24174.1	24656.0
60°	27319.6	27406.9	28192.3	29573.5	30176.8	26314.1	26242.0	25240.3	27232.4	27456.2
62.5°	26067.5	26598.7	28579.4	31318.9	32810.1	29725.3	29691.1	28750.1	30450.0	30267.9
65°	21100.6	21999.9	25483.2	32499.0	35394.1	33534.9	33584.2	32582.5	33754.9	33163.0
67.5°	14760.2	15708.8	19829.5	32593.8	38281.6	38008.4	38293.0	36722.1	37264.7	35936.7
70°	10206.9	10696.4	13379.0	30552.5	40531.7	44170.5	44163.0	41806.6	40755.6	37200.2
72.5°	6864.1	7118.3	8689.2	24238.6	38877.4	47832.1	47612.1	45692.1	41931.9	34790.8
75°	2895.1	3081.0	4022.1	13621.9	30757.4	43760.7	43165.0	40379.9	37257.2	27395.5
77.5°	918.2	997.9	1586.1	4875.8	16942.0	32893.6	32263.7	25217.5	24970.9	13743.3
80°	436.4	508.4	891.7	1957.9	6666.8	17890.6	17803.3	11440.1	10741.9	3710.9
82.5°	189.7	223.9	493.3	1047.3	2982.4	6382.2	6511.2	3893.0	3221.4	1407.7
85°	60.7	79.7	227.7	481.9	1259.7	1586.1	1567.1	925.8	1297.7	766.5
87.5°	0.0	0.0	75.9	110.0	129.0	91.1	102.4	79.7	360.5	212.5
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°
6090.0	0°	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0	6090.0
6165.9	2.5°	6120.4	6059.6	5953.4	5854.8	5767.5	5680.2	5627.1	5551.2	5543.6	5543.6
6264.5	5°	6162.1	6063.4	5873.7	5672.6	5441.2	5221.1	5001.0	4788.5	4720.2	4670.9
6423.9	7.5°	6283.5	6127.9	5828.2	5445.0	5004.8	4522.9	4185.2	3821.0	3680.6	3604.7
6636.4	10°	6458.1	6245.6	5790.2	5118.6	4405.3	3748.9	3267.0	2872.4	2720.6	2656.1
6867.9	12.5°	6651.6	6389.8	5721.9	4712.6	3748.9	2963.4	2492.9	2310.8	2288.0	2288.0
7144.8	15°	6883.0	6564.3	5604.3	4234.5	3062.1	2344.9	2178.0	2185.6	2208.3	2223.5
7414.2	17.5°	7122.1	6750.2	5418.4	3699.5	2455.0	2109.7	2113.5	2124.9	2143.8	2159.0
7706.4	20°	7380.1	6936.2	5171.8	3130.4	2105.9	2041.4	2052.8	2064.2	2079.3	2086.9
7979.6	22.5°	7657.1	7110.7	4879.6	2572.6	1988.3	1984.5	1988.3	1999.6	2018.6	2018.6
8298.3	25°	7953.1	7304.2	4545.7	2166.6	1927.6	1927.6	1935.1	1942.7	1957.9	1957.9
8605.7	27.5°	8256.6	7482.5	4192.8	1954.1	1874.4	1870.6	1870.6	1882.0	1889.6	1893.4
8909.2	30°	8590.5	7691.2	3839.9	1908.6	1832.7	1813.7	1802.3	1809.9	1817.5	1821.3
9228.0	32.5°	8932.0	7892.3	3525.0	1927.6	1791.0	1756.8	1718.9	1711.3	1711.3	1726.4
9558.1	35°	9311.4	8112.4	3282.2	1992.1	1768.2	1673.3	1612.6	1578.5	1582.3	1605.0
9952.7	37.5°	9766.8	8378.0	3103.8	2049.0	1753.0	1578.5	1479.8	1438.1	1411.5	1438.1
10495.3	40°	10362.5	8768.8	2974.8	2094.5	1734.0	1468.4	1335.6	1267.3	1218.0	1233.2
11337.6	42.5°	11239.0	9383.5	2925.5	2098.3	1692.3	1339.4	1187.6	1096.6	1024.5	1028.3
12605.0	45°	12468.4	10354.9	3179.7	2049.0	1601.2	1199.0	1032.1	910.7	865.1	853.7
14498.4	47.5°	14153.1	11770.2	3767.8	1946.5	1468.4	1062.4	880.3	777.9	743.7	724.7
16983.7	50°	16410.8	13587.7	4420.5	1832.7	1335.6	933.4	755.1	690.6	667.8	648.8
19932.0	52.5°	19028.9	15431.8	4955.5	1718.9	1202.8	819.6	675.4	637.5	618.5	603.3
22777.7	55°	21430.7	16702.9	4925.1	1597.4	1073.8	728.5	618.5	595.7	573.0	557.8
25228.9	57.5°	22925.7	16881.3	4060.0	1464.6	925.8	656.4	565.4	550.2	523.6	504.7
27350.0	60°	23612.5	15864.4	2845.8	1290.1	777.9	588.1	508.4	500.9	466.7	440.1
29357.2	62.5°	23737.7	13974.8	1897.2	1073.8	648.8	523.6	451.5	440.1	394.6	349.1
30988.8	65°	23229.3	11273.1	1312.9	838.6	554.0	455.3	387.0	364.3	314.9	269.4
31375.8	67.5°	21620.5	7915.1	914.4	603.3	470.5	360.5	307.3	299.8	261.8	223.9
29402.8	70°	18672.2	4511.5	610.9	451.5	371.9	246.6	242.8	250.4	212.5	182.1
24022.3	72.5°	14316.2	2064.2	379.4	330.1	254.2	167.0	193.5	197.3	163.2	136.6
14987.9	75°	8427.3	884.1	239.0	212.5	129.0	110.0	140.4	144.2	110.0	87.3
5479.1	77.5°	2868.6	333.9	151.8	125.2	64.5	60.7	91.1	91.1	60.7	34.1
1100.4	80°	652.6	125.2	75.9	49.3	30.4	26.6	30.4	26.6	15.2	3.8
337.7	82.5°	185.9	49.3	30.4	19.0	11.4	11.4	3.8	0.0	0.0	0.0
117.6	85°	53.1	22.8	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
41.7	87.5°	22.8	3.8	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>
6090.0
5562.6
4693.7
3616.1
2656.1
2288.0
2223.5
2159.0
2090.7
2026.2
1961.7
1897.2
1828.9
1737.8
1616.4
1430.5
1225.6
1013.1
838.6
713.3
645.0
599.5
550.2
500.9
432.6
326.3
254.2
212.5
167.0
121.4
75.9
26.6
0.0
0.0
0.0
0.0
0.0

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