

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: P954822

Luminaire Tested: **GALN-SB7D-950-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-950-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

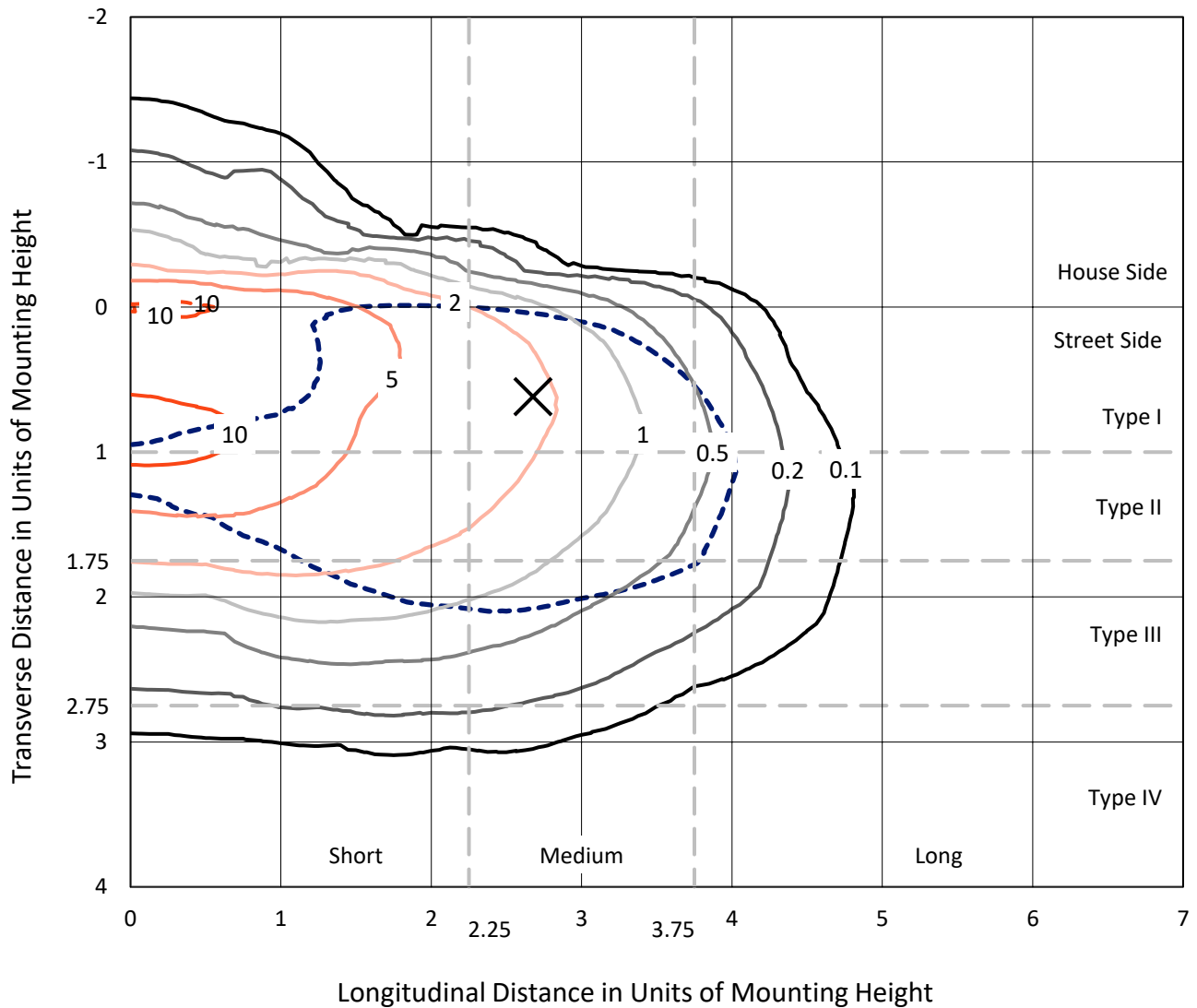
Lumens per Lamp: N/A  
Luminaire Lumens: 41913 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

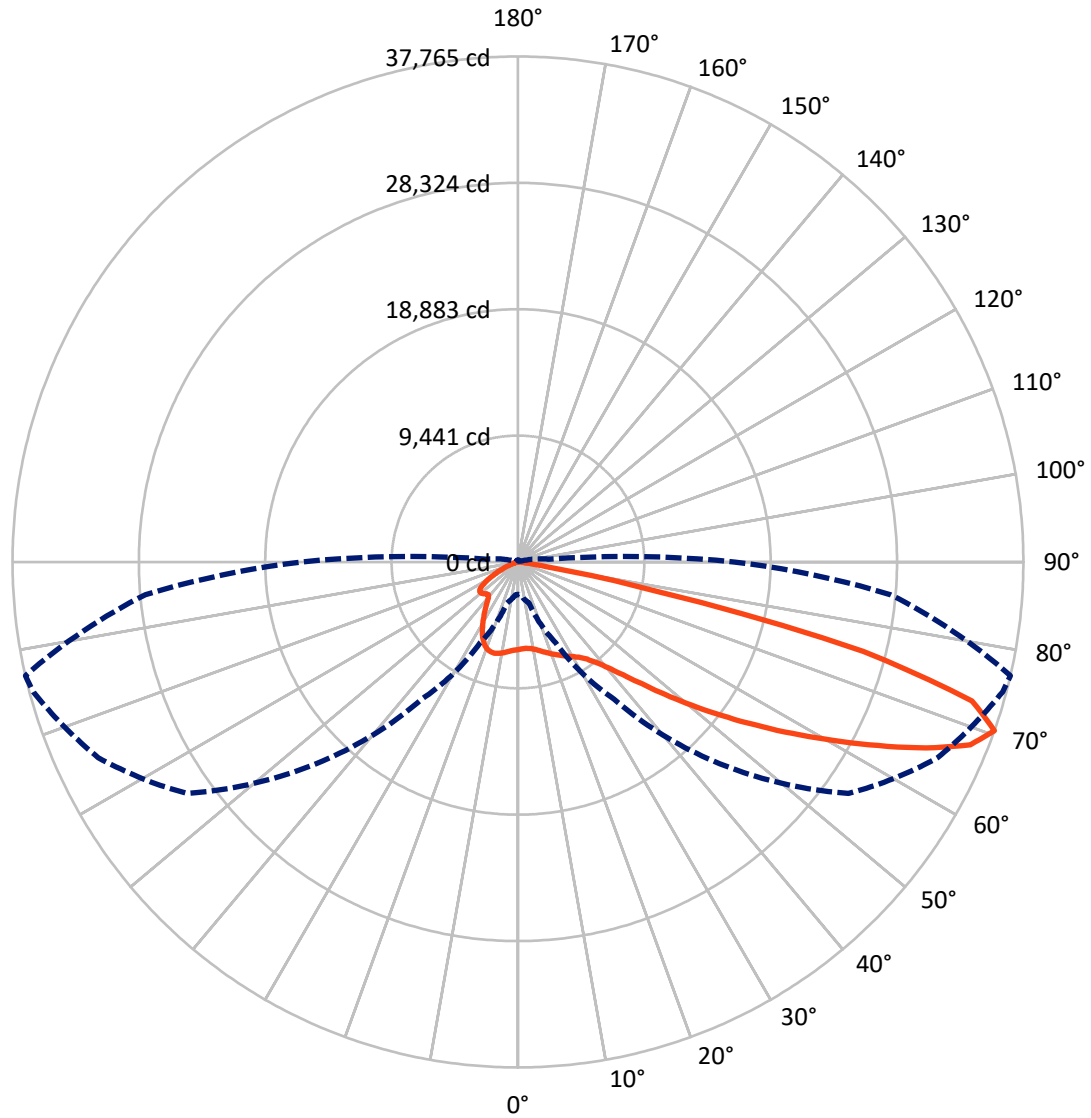
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4418.2	0.0	4418.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	37494.8	0.0	37494.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	41913.0	0.0	41913.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	563.4	1.3
10°-20°	1337.6	3.2
20°-30°	2068.8	4.9
30°-40°	3754.0	9.0
40°-50°	7086.1	16.9
50°-60°	10238.8	24.4
60°-70°	10898.9	26.0
70°-80°	5775.7	13.8
80°-90°	189.6	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°	41913.0	100.0
0°-180°	41913.0	100.0

**Coefficient of Utilization**



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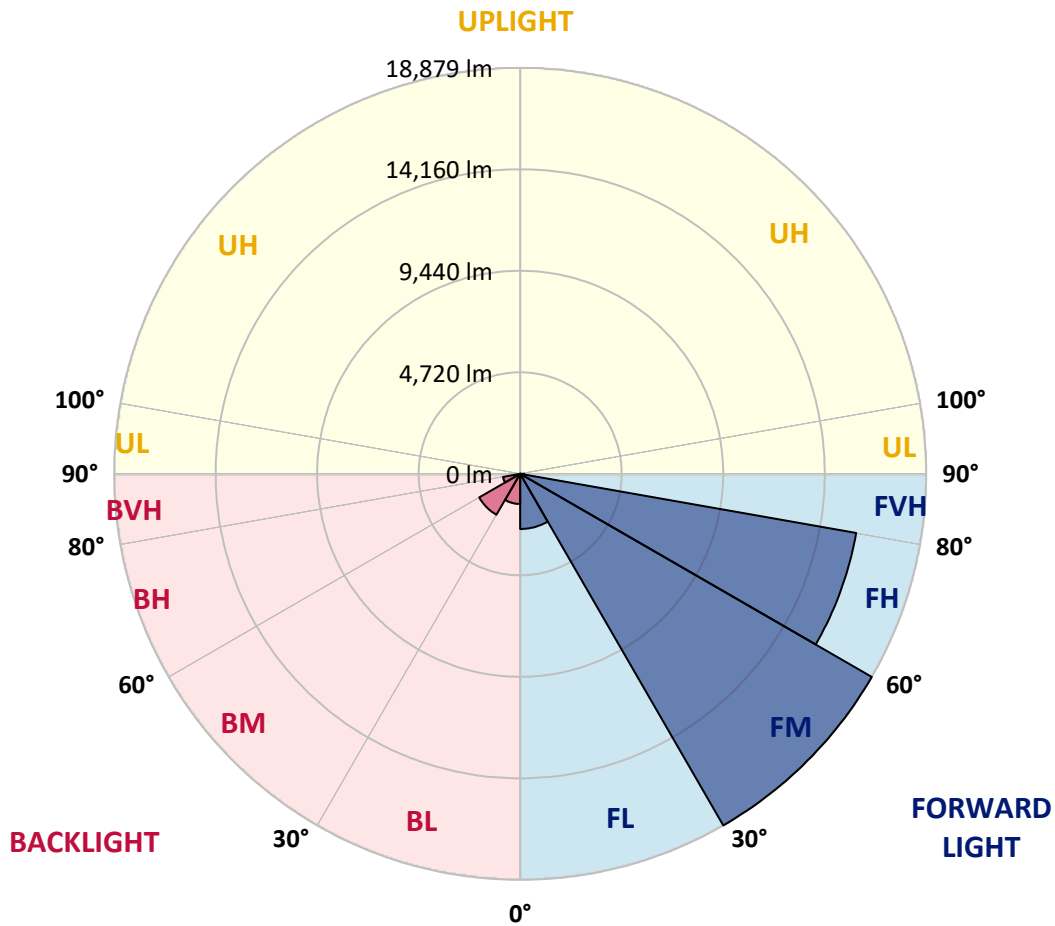
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2566.1	6.1			
FM (30°-60°)	18879.5	45.0			
FH (60°-80°)	15864.7	37.9			G5
FVH (80°-90°)	184.5	0.4			G2/225
BL (0°-30°)	1403.7	3.3	B3/2500		
BM (30°-60°)	2199.4	5.2	B2/2500		
BH (60°-80°)	810.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.1	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7
2.5°	6138.0	6193.6	6185.6	6222.7	6235.9	6288.9	6341.8	6413.3	6492.7	6490.0
5°	5791.3	5846.8	5860.1	5910.4	5973.9	6055.9	6164.5	6307.4	6455.6	6479.4
7.5°	5381.0	5439.2	5473.6	5574.2	5690.7	5860.1	6037.4	6246.5	6492.7	6527.1
10°	4970.7	5023.7	5068.7	5211.6	5396.9	5648.3	5936.8	6238.6	6569.4	6619.7
12.5°	4716.7	4766.9	4817.2	4941.6	5171.9	5478.9	5870.7	6275.6	6696.5	6767.9
15°	4626.7	4671.7	4711.4	4822.5	5036.9	5386.3	5857.4	6352.4	6857.9	6953.2
17.5°	4639.9	4663.7	4690.2	4774.9	4984.0	5344.0	5881.3	6484.7	7048.5	7133.2
20°	4716.7	4729.9	4732.5	4790.8	4976.0	5338.7	5928.9	6611.8	7228.5	7342.3
22.5°	4814.6	4819.9	4814.6	4854.3	5026.3	5378.4	5992.4	6765.3	7429.7	7535.5
25°	5272.5	5171.9	5044.9	4968.1	5111.0	5455.1	6087.7	6971.8	7649.3	7752.6
27.5°	6693.8	6405.3	5950.1	5439.2	5285.7	5566.3	6220.1	7180.9	7871.7	7964.3
30°	9001.9	8623.4	7850.5	6699.1	5846.8	5799.2	6392.1	7390.0	8107.2	8207.8
32.5°	11315.2	11222.6	10330.6	8737.2	7109.4	6318.0	6678.0	7673.2	8419.6	8499.0
35°	13655.0	13467.1	12736.5	11161.7	9054.8	7374.1	7154.4	8043.7	8829.8	8919.8
37.5°	15446.9	15333.1	14880.5	13583.5	11362.8	9004.5	7969.6	8618.1	9425.4	9525.9
40°	17029.7	16976.8	16823.3	15968.3	13943.5	11137.9	9237.4	9507.4	10251.2	10370.3
42.5°	18273.7	18398.1	18485.5	18247.2	16603.6	13572.9	10942.0	10756.7	11402.5	11524.3
45°	19546.8	19589.2	19941.2	20285.3	19245.1	16119.2	12863.6	12220.4	12834.5	12985.3
47.5°	20364.7	20534.1	21153.5	21759.6	21465.8	18644.3	14928.1	13948.8	14494.0	14777.3
50°	20425.6	20745.9	21598.1	22654.2	23083.0	21047.6	17172.6	15918.0	16497.7	16810.0
52.5°	19411.9	19909.5	21230.2	22776.0	23956.5	23083.0	19493.9	17887.3	18631.0	19038.7
55°	14883.1	15534.2	19845.9	22114.3	23990.9	24626.1	21754.3	19938.6	21007.9	21468.4
57.5°	12966.8	13295.0	15603.1	20965.5	23353.0	25248.1	23797.7	21891.9	23593.8	24165.6
60°	10788.5	11219.9	13085.9	19086.3	22487.5	25309.0	25602.8	24411.7	26396.8	27040.0
62.5°	7331.7	7800.2	9655.6	15857.2	21304.3	25279.9	27082.4	27005.6	29512.2	30203.0
65°	4542.0	4835.8	6058.6	12948.3	19650.1	25311.6	28630.8	30155.3	32799.5	33500.9
67.5°	3589.1	3724.1	4362.0	9941.5	16799.4	24597.0	30176.5	33117.1	35893.7	36449.5
70°	2411.3	2493.3	3173.5	6664.7	12498.3	21299.0	30147.4	34604.7	37487.1	37765.0
72.5°	1270.5	1334.0	1855.4	3086.2	7548.8	15139.9	25412.2	32826.0	35901.6	35483.4
75°	635.2	741.1	1249.3	1566.9	3223.8	8443.4	15780.4	25880.7	28257.6	26637.7
77.5°	481.7	582.3	1032.3	1032.3	1122.3	2842.7	6683.2	14115.5	13019.8	10841.4
80°	307.0	397.0	902.6	780.8	468.5	722.6	1741.6	3954.4	2765.9	2104.2
82.5°	180.0	259.4	751.7	516.1	262.0	267.3	492.3	841.7	717.3	558.5
85°	71.5	169.4	516.1	203.8	103.2	66.2	148.2	180.0	148.2	111.2
87.5°	0.0	39.7	90.0	0.0	7.9	5.3	10.6	13.2	13.2	10.6
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°
6537.7	0°	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7	6537.7
6543.0	2.5°	6566.8	6572.1	6588.0	6590.6	6553.6	6505.9	6487.4	6479.4	6447.7	6445.0
6585.3	5°	6646.2	6670.0	6646.2	6577.4	6413.3	6183.0	6008.3	5865.4	5735.7	5696.0
6730.9	7.5°	6805.0	6828.8	6757.4	6487.4	6074.5	5616.6	5203.7	4912.5	4650.5	4552.5
6908.2	10°	7032.6	7064.4	6839.4	6294.2	5563.6	4827.8	4129.1	3636.7	3253.0	3096.8
7149.1	12.5°	7318.5	7331.7	6884.4	6000.4	4899.3	3848.5	2858.6	2331.9	1990.4	1863.4
7440.2	15°	7633.5	7614.9	6889.7	5600.7	3994.1	2720.9	1866.0	1532.5	1394.9	1352.5
7731.4	17.5°	7964.3	7887.6	6783.8	5023.7	3001.5	1860.7	1384.3	1304.9	1281.1	1270.5
8019.9	20°	8289.9	8117.8	6590.6	4269.3	2154.5	1389.6	1257.2	1233.4	1220.2	1214.9
8311.0	22.5°	8586.3	8292.5	6259.8	3393.2	1564.3	1228.1	1188.4	1167.3	1143.4	1132.8
8594.3	25°	8874.8	8393.1	5793.9	2575.4	1252.0	1148.7	1117.0	1077.3	1045.5	1032.3
8898.6	27.5°	9155.4	8456.6	5211.6	1905.7	1117.0	1074.6	1016.4	960.8	937.0	931.7
9224.2	30°	9454.5	8477.8	4549.9	1421.3	1034.9	982.0	897.3	833.8	820.5	823.2
9663.6	32.5°	9819.7	8509.6	3882.9	1164.6	966.1	870.8	770.2	704.1	693.5	704.1
10304.1	35°	10256.5	8573.1	3239.7	1072.0	905.2	757.0	648.5	592.9	582.3	590.2
11124.6	37.5°	10849.4	8676.3	2638.9	1053.4	854.9	661.7	545.2	500.3	500.3	502.9
12130.4	40°	11638.1	8951.6	2101.6	1040.2	828.5	590.2	460.5	442.0	450.0	455.3
13411.5	42.5°	12598.9	9536.5	1739.0	1024.3	799.3	558.5	418.2	410.3	423.5	428.8
14946.7	45°	13676.2	10277.6	1611.9	997.9	772.9	579.7	399.7	389.1	405.0	407.6
16667.1	47.5°	14790.5	11002.9	1596.0	968.7	746.4	611.4	394.4	370.6	389.1	391.7
18504.0	50°	15918.0	11476.7	1611.9	923.7	704.1	611.4	397.0	352.0	367.9	375.8
20409.7	52.5°	17053.5	11693.7	1601.3	825.8	629.9	574.4	397.0	336.1	352.0	357.3
22468.9	55°	18154.6	11651.3	1439.9	680.2	534.7	508.2	386.4	322.9	333.5	336.1
24414.4	57.5°	19025.4	11061.1	1140.8	529.4	434.1	423.5	352.0	307.0	315.0	312.3
26198.3	60°	19480.7	9764.2	815.2	407.6	341.4	333.5	309.7	285.9	291.2	277.9
27709.7	62.5°	19486.0	8049.0	545.2	322.9	272.6	264.7	264.7	256.7	251.4	225.0
28879.6	65°	19070.4	6145.9	362.6	256.7	219.7	206.5	222.3	219.7	201.2	164.1
29236.9	67.5°	18128.1	4028.5	275.3	201.2	169.4	161.5	177.3	185.3	172.0	137.6
27934.6	70°	16190.7	2345.1	227.6	156.2	127.0	119.1	142.9	158.8	142.9	111.2
23877.1	72.5°	13448.5	1265.2	185.3	116.5	87.3	79.4	113.8	129.7	113.8	82.1
15319.9	75°	8726.6	677.6	142.9	76.8	45.0	50.3	84.7	95.3	79.4	52.9
4497.0	77.5°	2930.0	299.1	90.0	37.1	21.2	21.2	50.3	58.2	37.1	18.5
817.9	80°	653.8	124.4	37.1	15.9	7.9	7.9	10.6	10.6	5.3	0.0
251.4	82.5°	214.4	50.3	15.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0
63.5	85°	82.1	18.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.2	87.5°	31.8	2.6	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>
6537.7
6450.3
5672.2
4512.8
3030.6
1823.7
1352.5
1267.8
1209.6
1130.2
1027.0
926.4
823.2
701.4
587.6
500.3
455.3
428.8
410.3
394.4
378.5
357.3
336.1
312.3
275.3
217.0
158.8
135.0
105.9
79.4
47.6
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