

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: P943574

Luminaire Tested: **GALN-SB8A-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943574
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-SB8A-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 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: 25336 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

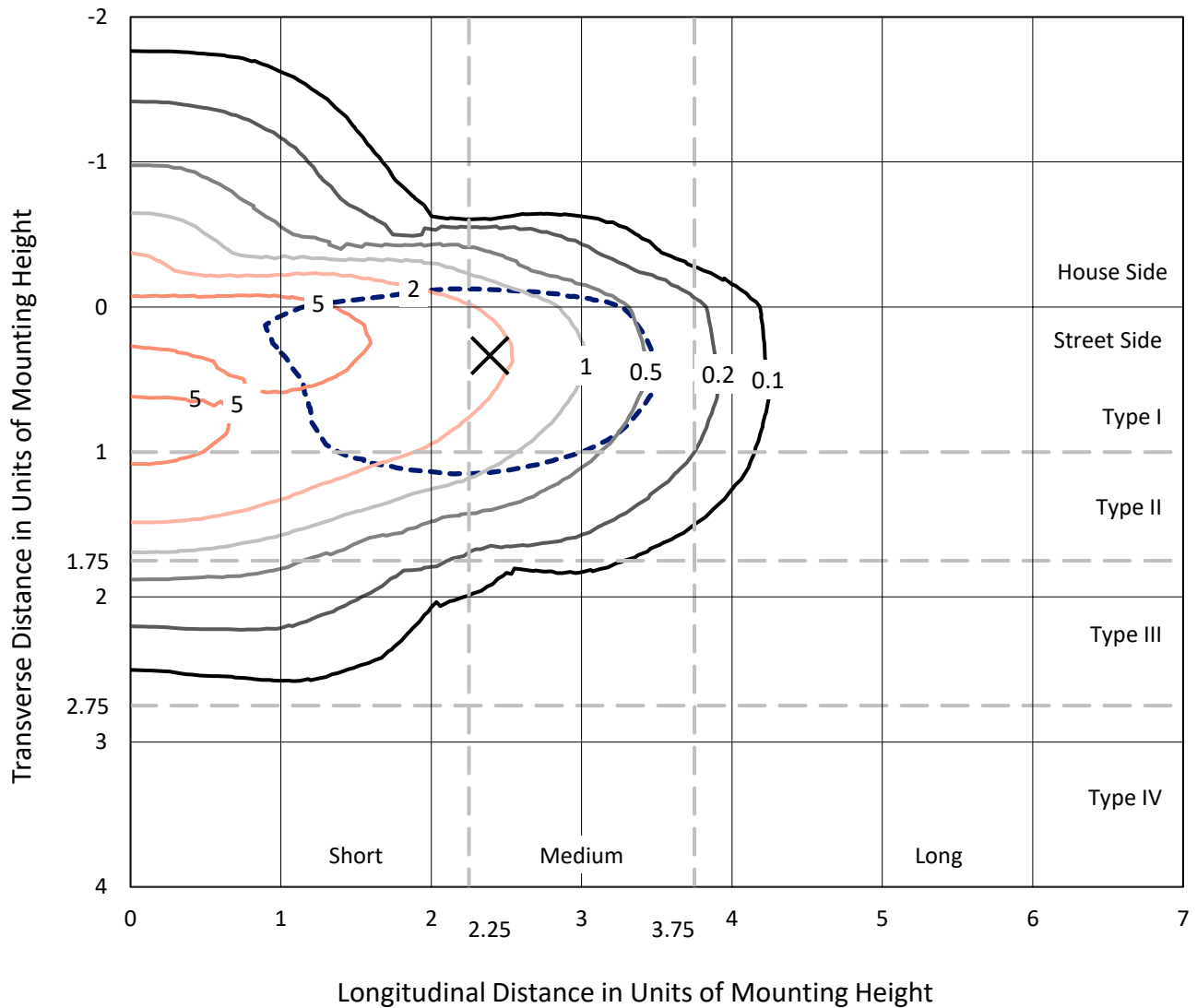
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

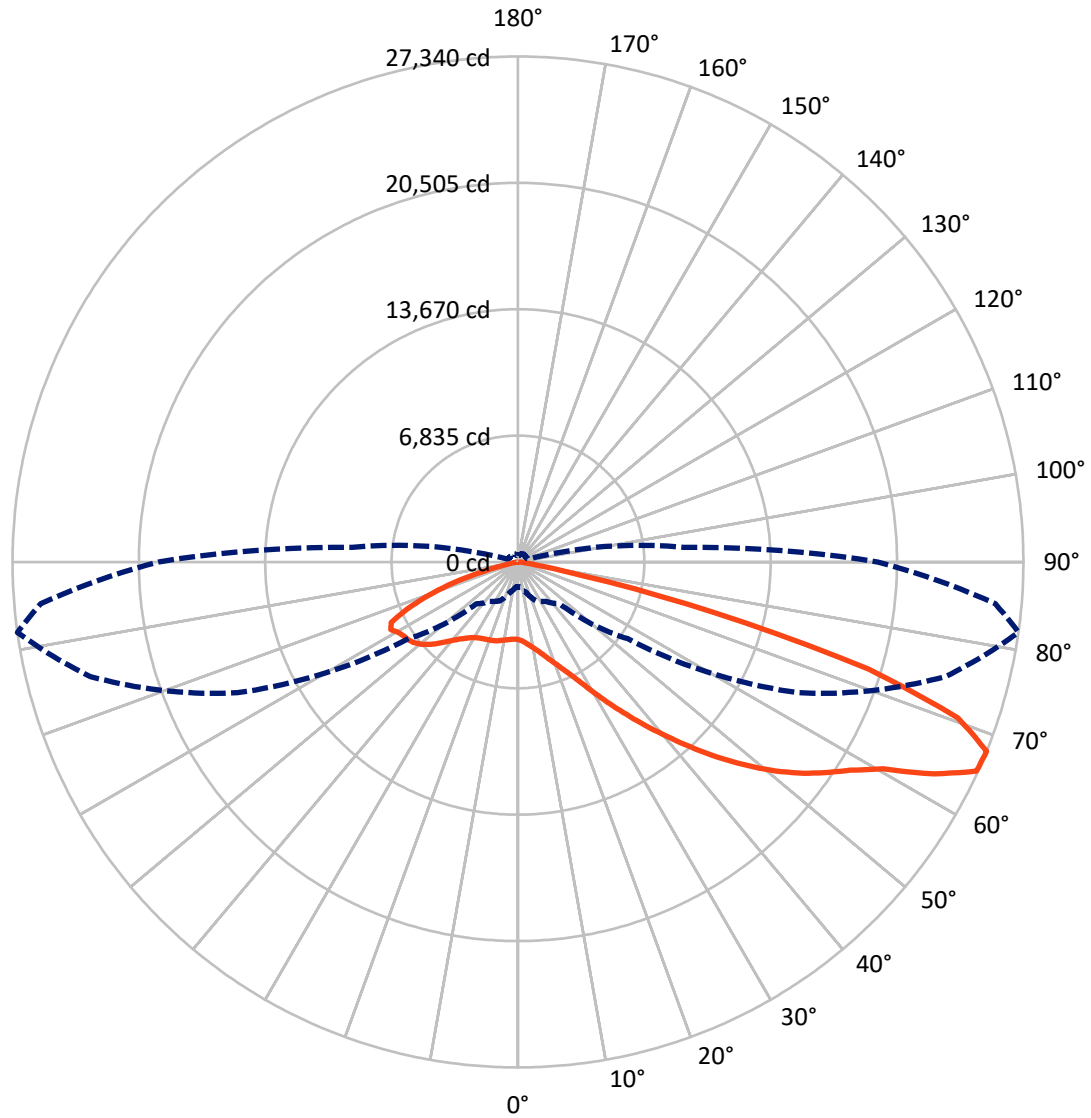
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4589.4	0.0	4589.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20746.6	0.0	20746.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	25336.0	0.0	25336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.0	1.5
10°-20°	971.7	3.8
20°-30°	1556.4	6.1
30°-40°	2752.2	10.9
40°-50°	4822.2	19.0
50°-60°	6431.5	25.4
60°-70°	5987.3	23.6
70°-80°	2297.9	9.1
80°-90°	142.7	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°	25336.0	100.0
0°-180°	25336.0	100.0

Coefficient of Utilization



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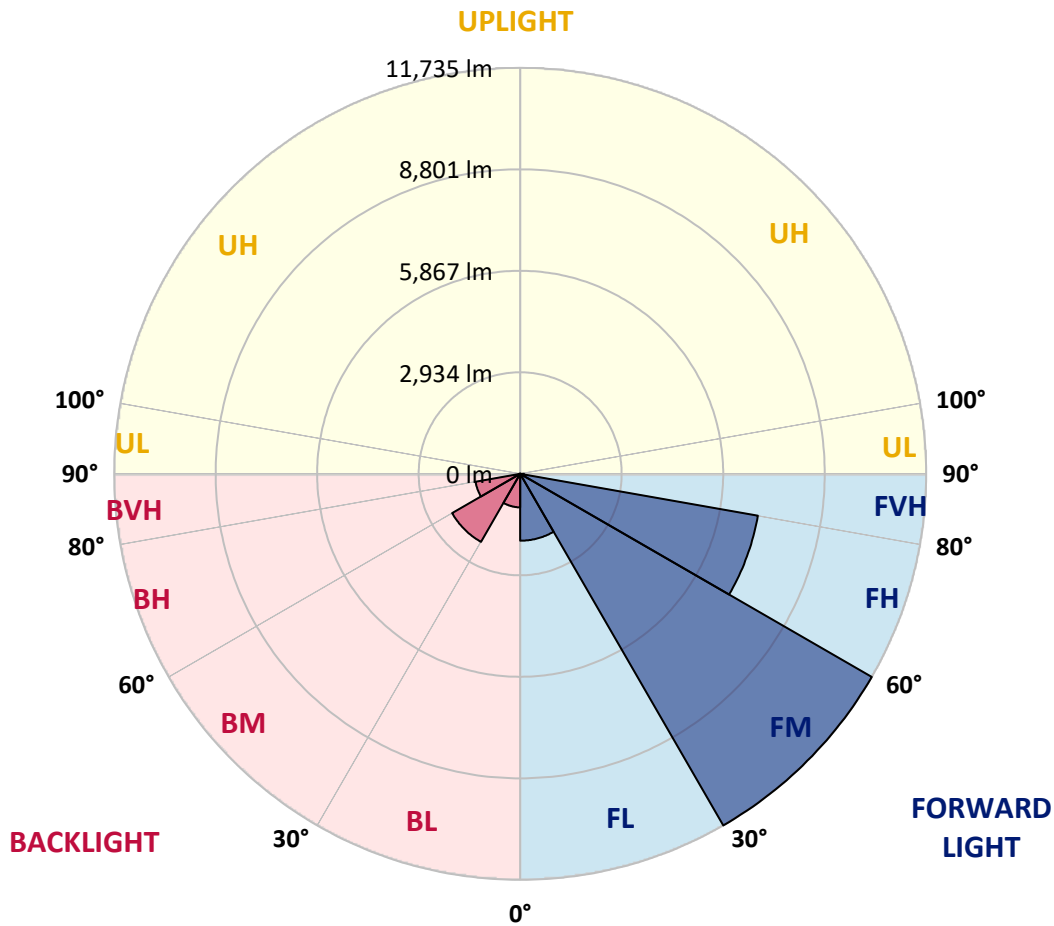
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.9	7.6			
FM (30°-60°)	11734.6	46.3			
FH (60°-80°)	6975.4	27.5			G3/7500
FVH (80°-90°)	103.8	0.4			G2/225
BL (0°-30°)	969.3	3.8	B2/1000		
BM (30°-60°)	2271.3	9.0	B2/2500		
BH (60°-80°)	1309.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	39.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3
2.5°	4436.3	4461.8	4447.2	4439.9	4427.2	4408.9	4394.3	4348.7	4301.3	4270.3
5°	4525.7	4551.2	4549.4	4556.7	4565.8	4571.3	4567.6	4516.5	4449.0	4396.1
7.5°	4449.0	4478.2	4501.9	4538.4	4602.3	4669.8	4702.6	4691.7	4622.3	4549.4
10°	4232.0	4263.0	4319.5	4405.3	4540.3	4686.2	4808.4	4864.9	4821.2	4740.9
12.5°	3834.3	3865.3	3976.6	4162.7	4388.9	4642.4	4875.9	5027.3	5038.2	4958.0
15°	3387.4	3418.4	3537.0	3770.5	4115.2	4522.0	4912.4	5198.8	5295.4	5226.1
17.5°	3110.1	3137.5	3226.9	3414.8	3774.1	4281.2	4899.6	5381.2	5601.9	5547.2
20°	3026.2	3049.9	3091.9	3223.2	3522.4	4031.3	4815.7	5552.6	5932.1	5901.1
22.5°	3115.6	3137.5	3150.3	3208.6	3396.5	3867.2	4709.9	5727.8	6315.1	6318.8
25°	3321.7	3343.6	3329.0	3365.5	3447.6	3816.1	4669.8	5933.9	6796.7	6836.8
27.5°	3661.0	3662.8	3628.2	3626.4	3639.1	3892.7	4711.7	6154.6	7404.1	7478.9
30°	4341.4	4314.1	4180.9	4036.8	3971.1	4122.5	4828.5	6415.5	8121.0	8254.2
32.5°	5390.3	5350.2	5105.7	4761.0	4414.4	4492.8	5038.2	6712.8	8901.7	9142.5
35°	6528.6	6517.6	6262.2	5749.7	5144.0	5020.0	5379.4	7103.2	9753.6	10136.7
37.5°	7586.5	7581.1	7435.1	6831.4	6094.4	5755.1	5926.6	7613.9	10665.7	11220.2
40°	8553.3	8569.8	8423.8	7883.9	7141.5	6698.2	6670.8	8245.1	11679.9	12400.4
42.5°	9388.8	9407.0	9259.3	8859.8	8175.7	7741.6	7584.7	9018.5	12670.4	13668.2
45°	9956.1	10069.2	10047.3	9728.1	9237.4	8786.8	8682.8	9988.9	13799.5	15012.6
47.5°	10116.6	10220.6	10384.8	10428.5	10129.4	9686.1	9810.2	11158.2	14941.4	16358.8
50°	9720.8	9817.5	10158.6	10612.8	10820.7	10683.9	10906.5	12411.4	16110.7	17701.3
52.5°	8940.0	9038.6	9469.0	10187.8	11036.0	11466.5	12006.4	13646.3	17243.5	18972.8
55°	7810.9	7914.9	8467.6	9281.2	10625.5	11789.3	12923.9	14879.4	18281.4	20116.5
57.5°	6275.0	6351.6	6926.2	8064.5	9593.1	11468.3	13600.7	16225.6	19259.1	21240.1
60°	4089.7	4157.2	4824.8	6094.4	7882.1	10395.7	13735.7	17726.9	20557.9	22701.3
62.5°	2719.8	2765.4	3161.2	4093.3	5550.8	8336.3	12945.8	18925.3	22462.3	25244.1
65°	1866.1	1911.7	2307.5	2956.9	3586.2	5514.3	10674.8	18766.6	24187.9	27263.4
67.5°	1331.6	1369.9	1705.6	2318.5	2595.7	3203.2	7236.3	16738.2	23939.9	27340.0
70°	954.0	975.9	1253.2	1805.9	2063.1	1924.5	4024.0	12801.7	20961.1	25245.9
72.5°	667.6	674.9	870.1	1375.4	1661.8	1404.6	1915.3	8535.1	15853.5	19815.5
75°	452.4	461.5	585.5	1008.7	1333.4	1072.6	1014.2	4576.7	9306.7	10968.5
77.5°	277.3	280.9	377.6	689.5	997.8	817.2	653.0	1939.0	3600.8	3535.2
80°	156.9	156.9	240.8	428.7	680.4	527.2	457.9	824.5	1140.1	1001.4
82.5°	87.6	89.4	175.1	266.3	450.6	311.9	251.7	381.2	492.5	436.0
85°	36.5	40.1	107.6	125.9	215.2	155.1	102.2	160.5	182.4	162.3
87.5°	3.6	5.5	32.8	23.7	25.5	31.0	14.6	31.0	25.5	25.5
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°
4197.3	0°	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3	4197.3
4259.3	2.5°	4224.7	4197.3	4128.0	4047.7	3941.9	3890.9	3821.5	3774.1	3734.0	3737.6
4365.1	5°	4306.8	4237.4	4082.4	3889.0	3648.3	3476.8	3294.4	3168.5	3066.4	3044.5
4511.1	7.5°	4419.9	4310.4	4038.6	3690.2	3283.4	2975.2	2699.7	2522.8	2396.9	2356.8
4688.0	10°	4565.8	4407.1	3982.1	3440.3	2854.8	2462.6	2167.1	2028.4	1942.7	1913.5
4896.0	12.5°	4735.4	4518.4	3907.3	3135.7	2413.3	2035.7	1847.8	1778.5	1751.2	1742.0
5151.3	15°	4948.9	4657.0	3794.2	2774.5	2039.4	1774.9	1694.6	1685.5	1689.1	1685.5
5457.8	17.5°	5202.4	4808.4	3609.9	2402.4	1787.6	1641.7	1612.5	1619.8	1628.9	1627.1
5800.7	20°	5479.7	4958.0	3374.6	2072.2	1616.2	1546.9	1530.4	1537.7	1545.0	1541.4
6196.6	22.5°	5795.3	5118.5	3113.8	1815.0	1501.3	1459.3	1441.1	1442.9	1442.9	1435.6
6698.2	25°	6172.8	5295.4	2840.2	1632.6	1413.7	1380.9	1359.0	1351.7	1340.7	1318.8
7307.5	27.5°	6623.4	5483.3	2577.5	1504.9	1344.4	1313.4	1287.8	1269.6	1242.2	1205.7
8038.9	30°	7130.5	5711.3	2354.9	1424.6	1289.7	1258.6	1229.5	1202.1	1162.0	1116.4
8879.9	32.5°	7727.0	5955.8	2192.6	1371.7	1240.4	1207.6	1172.9	1140.1	1096.3	1050.7
9824.8	35°	8438.4	6251.3	2097.7	1335.3	1202.1	1158.3	1120.0	1083.5	1050.7	1010.6
10851.7	37.5°	9210.0	6565.0	2068.6	1317.0	1176.6	1109.1	1065.3	1039.8	1036.1	1012.4
11962.6	40°	10054.6	6937.2	2090.5	1306.1	1149.2	1061.6	1014.2	1008.7	1017.9	975.9
13150.1	42.5°	10948.4	7378.6	2126.9	1293.3	1110.9	1014.2	968.6	968.6	961.3	902.9
14405.1	45°	11915.2	7887.5	2163.4	1262.3	1065.3	966.8	932.1	919.4	888.4	831.8
15667.4	47.5°	12889.3	8405.6	2190.8	1205.7	1010.6	926.7	895.6	866.5	820.9	769.8
16906.0	50°	13814.1	8870.7	2161.6	1121.8	948.5	888.4	855.5	815.4	766.1	731.5
18078.9	52.5°	14640.4	9273.9	2037.6	1023.3	882.9	848.2	819.0	777.1	736.9	700.5
19136.9	55°	15359.2	9600.4	1818.7	930.3	824.5	813.6	784.4	731.5	676.8	645.7
20185.8	57.5°	16048.7	9848.5	1545.0	853.7	771.6	775.3	731.5	684.0	633.0	600.1
21599.5	60°	16966.2	10180.5	1267.8	782.6	715.1	726.0	678.6	643.9	580.1	538.1
24023.8	62.5°	18432.8	10696.7	1006.9	695.0	649.4	653.0	633.0	591.0	514.4	465.2
25820.5	65°	19596.6	10507.0	793.5	600.1	574.6	580.1	580.1	534.5	452.4	395.8
25917.2	67.5°	19465.3	8996.6	633.0	507.1	503.5	507.1	519.9	481.6	401.3	355.7
23943.5	70°	17931.2	7156.1	507.1	421.4	437.8	428.7	465.2	439.6	361.2	315.6
18562.3	72.5°	14631.3	5155.0	386.7	348.4	335.6	350.2	419.5	395.8	301.0	249.9
9832.0	75°	8549.7	2750.8	288.2	275.4	242.6	291.9	372.1	337.5	229.8	184.2
3013.5	77.5°	2783.6	959.5	211.6	202.5	180.6	235.3	317.4	284.6	187.9	145.9
882.9	80°	746.1	290.0	144.1	133.2	116.7	175.1	251.7	226.2	135.0	94.9
379.4	82.5°	299.2	122.2	83.9	74.8	63.8	120.4	198.8	182.4	100.3	60.2
118.6	85°	96.7	40.1	31.0	23.7	29.2	74.8	118.6	124.0	71.1	31.0
18.2	87.5°	12.8	5.5	5.5	7.3	5.5	12.8	36.5	34.7	20.1	3.6
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>
4197.3
3701.2
2995.2
2316.6
1891.6
1736.6
1683.7
1623.5
1539.6
1431.9
1315.2
1202.1
1112.7
1052.5
1006.9
1010.6
977.7
902.9
830.0
768.0
726.0
696.8
642.1
596.5
532.6
461.5
390.4
348.4
310.1
244.4
178.8
140.5
93.0
60.2
23.7
0.0
0.0

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