

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: P953831

Luminaire Tested: **GALN-SB7B-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953831  
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-SB7B-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

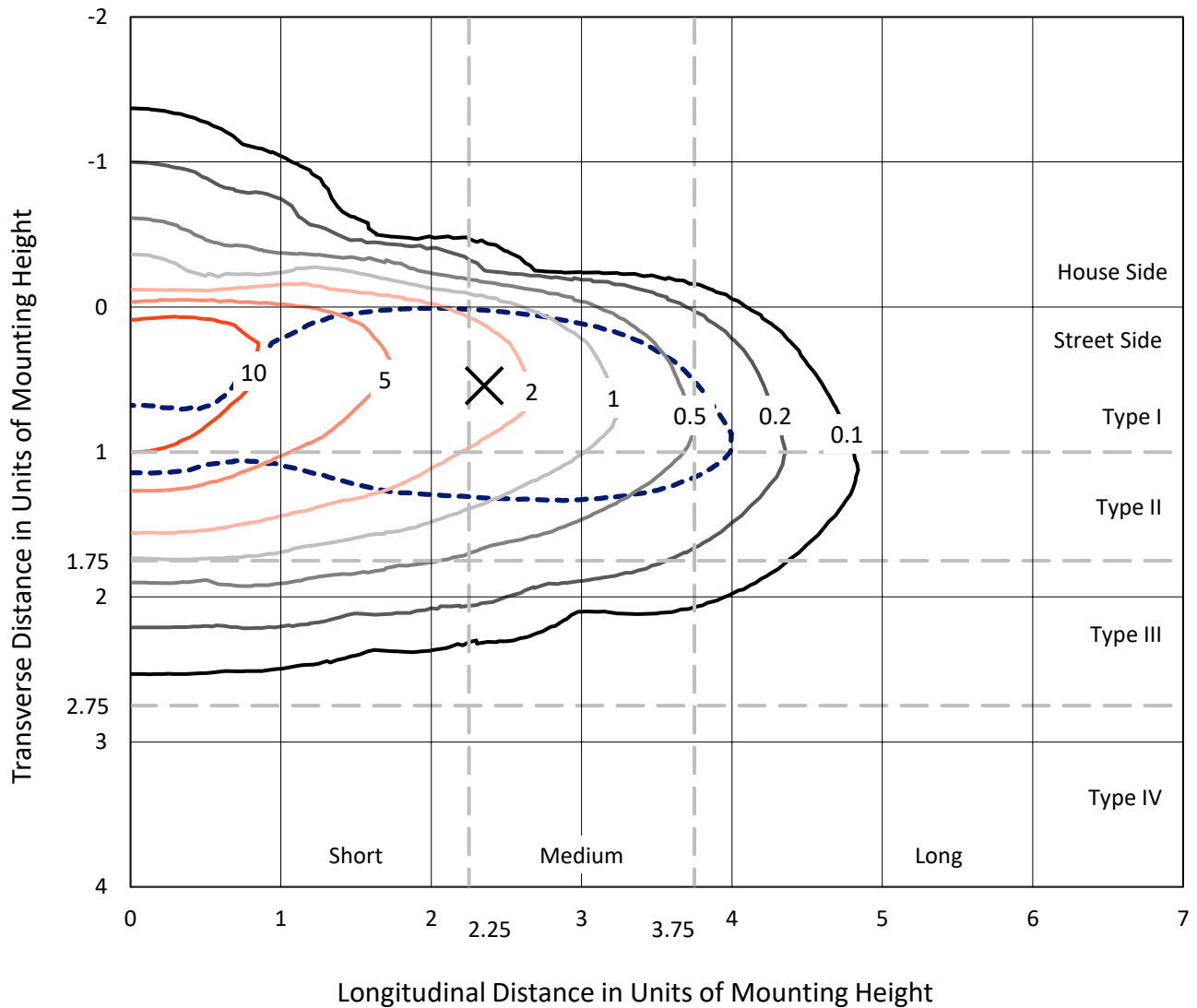
Lumens per Lamp: N/A  
Luminaire Lumens: 33906 lumens  
Efficiency: N/A  
Efficacy: 132.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

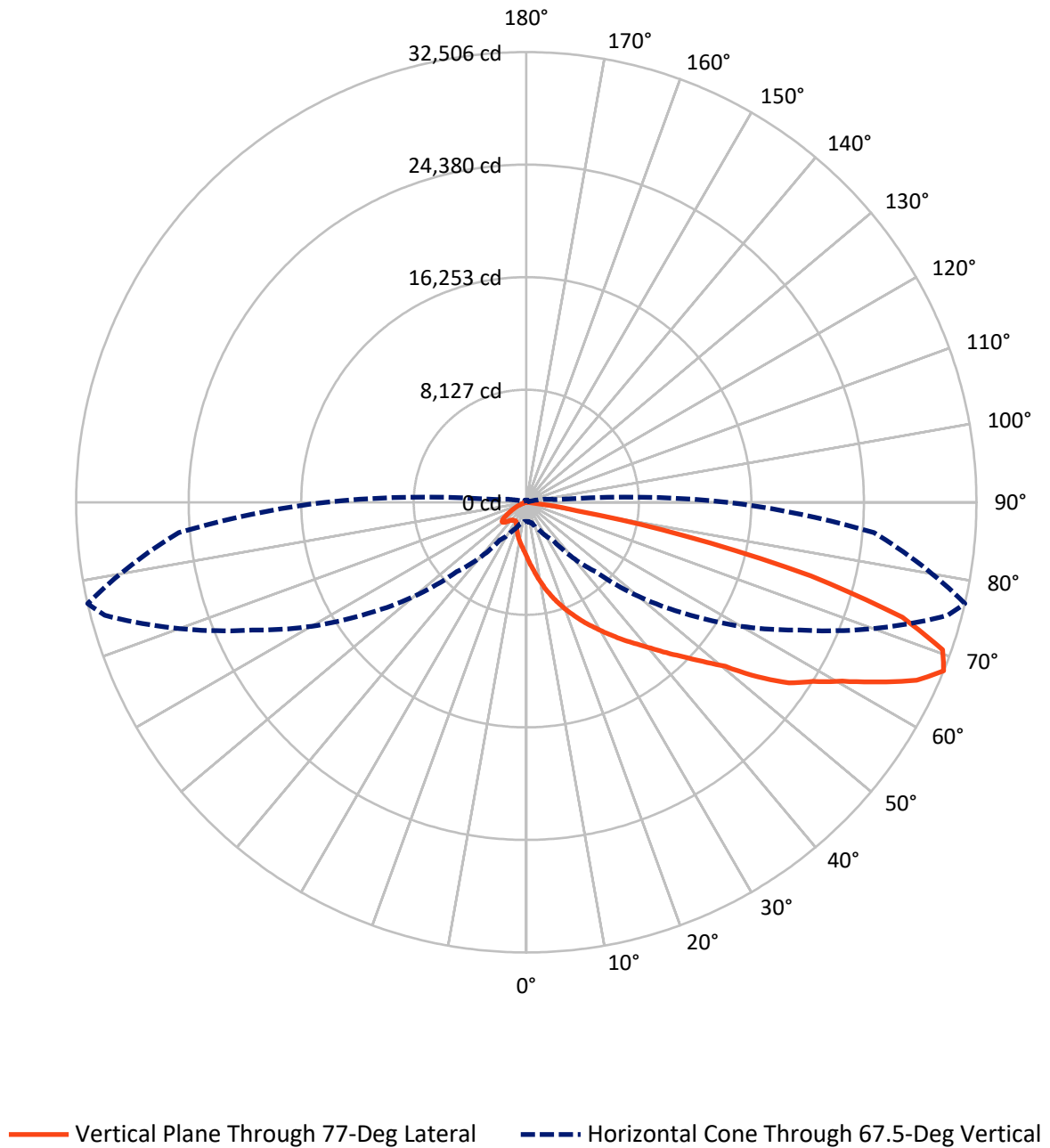
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	2494.5	0.0	2494.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	31411.5	0.0	31411.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	33906.0	0.0	33906.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.1	1.2
10°-20°	1397.5	4.1
20°-30°	2696.8	8.0
30°-40°	4681.7	13.8
40°-50°	6797.6	20.0
50°-60°	7806.2	23.0
60°-70°	6777.2	20.0
70°-80°	3192.1	9.4
80°-90°	157.9	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°	33906.0	100.0
0°-180°	33906.0	100.0

**Coefficient of Utilization**



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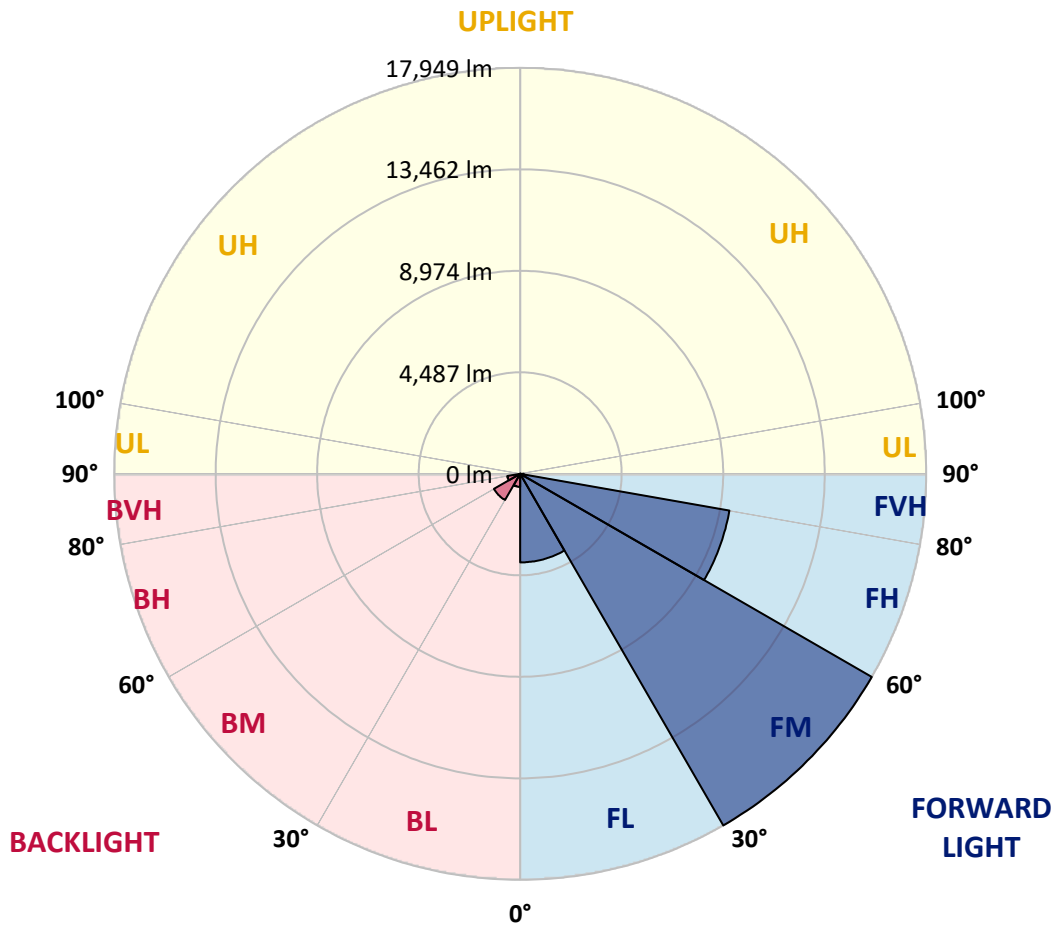
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3915.8	11.5			
FM (30°-60°)	17948.9	52.9			
FH (60°-80°)	9391.9	27.7			G4/12000
FVH (80°-90°)	155.0	0.5			G2/225
BL (0°-30°)	577.5	1.7	B2/1000		
BM (30°-60°)	1336.6	3.9	B2/2500		
BH (60°-80°)	577.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	5413.2	5446.9	5398.4	5305.8	5166.8	5076.3	4855.2	4646.8	4415.2	4341.5
5°	6598.5	6628.0	6573.3	6472.2	6286.9	6110.1	5819.5	5383.7	4931.0	4785.7
7.5°	7476.5	7493.4	7472.3	7379.7	7202.8	7002.8	6678.6	6162.7	5491.1	5331.1
10°	8108.2	8162.9	8156.6	8120.8	8002.9	7840.8	7495.5	6908.1	6118.5	5912.2
12.5°	8527.2	8588.2	8624.0	8704.0	8697.7	8594.5	8291.3	7670.2	6743.8	6501.7
15°	8649.3	8714.5	8851.4	9036.7	9200.9	9253.5	9040.9	8417.7	7432.3	7122.8
17.5°	8579.8	8680.9	8845.1	9137.7	9497.8	9735.7	9712.5	9139.9	8057.6	7703.9
20°	8733.5	8830.3	8958.8	9205.1	9624.1	10055.7	10228.4	9830.4	8678.8	8308.2
22.5°	9584.1	9567.3	9579.9	9619.9	9870.4	10297.9	10653.7	10457.9	9293.6	8914.6
25°	10931.6	10855.8	10727.4	10510.5	10447.3	10653.7	11024.2	11013.7	9942.0	9535.7
27.5°	12477.0	12464.4	12163.3	11641.2	11346.4	11266.4	11443.2	11554.8	10584.2	10150.5
30°	13957.2	13990.9	13584.5	13003.4	12462.3	12148.6	11988.6	12068.6	11236.9	10813.7
32.5°	15245.7	15281.5	14839.4	14159.3	13489.8	13110.8	12773.9	12576.0	11948.5	11487.5
35°	16334.2	16370.0	15862.6	15111.0	14397.2	14054.0	13672.9	13131.8	12664.4	12234.9
37.5°	17307.0	17296.4	16616.4	15858.4	15157.3	14885.7	14685.7	13816.1	13401.3	12986.5
40°	17881.8	17926.0	17344.9	16509.0	15828.9	15631.0	15618.4	14664.6	14251.9	13849.8
42.5°	18050.2	18128.1	17707.0	17020.6	16403.7	16189.0	16519.5	15582.6	15241.5	14849.9
45°	17747.0	17822.8	17631.2	17155.4	16795.3	16656.4	17294.3	16534.3	16298.5	15911.0
47.5°	16862.7	16957.5	17003.8	16902.7	16898.5	17039.6	17989.1	17536.5	17553.3	17157.5
50°	15151.0	15311.0	15736.3	16094.2	16648.0	17342.8	18665.0	18622.9	18968.2	18627.1
52.5°	12039.1	12266.5	13731.9	14710.9	15955.3	17285.9	19408.2	20366.2	21450.5	20951.5
55°	9674.6	9674.6	10866.3	12698.1	14603.5	16911.1	19732.5	21499.0	23141.2	23023.3
57.5°	7887.1	7981.8	8741.9	10361.0	12647.6	16018.4	19932.5	22210.6	24503.5	24417.2
60°	4867.8	5072.1	6508.0	8106.1	10422.1	14428.8	19806.2	22930.7	26156.3	26225.8
62.5°	2741.3	2817.1	3457.2	5832.2	8104.0	12291.7	18839.8	23332.8	28270.2	28564.9
65°	1892.8	1930.7	2177.1	3629.8	5617.4	9786.2	16951.1	23082.3	30388.3	30984.1
67.5°	1374.9	1393.8	1547.5	2217.1	3333.0	7095.4	13990.9	21819.0	31510.5	32506.4
70°	1056.9	1069.6	1181.2	1457.0	1968.6	4379.4	10161.0	19307.2	30697.8	31887.4
72.5°	859.0	871.7	958.0	1078.0	1305.4	2589.7	6158.5	15679.4	27110.0	28394.4
75°	724.3	741.1	819.0	896.9	1023.3	1663.3	2888.7	10919.0	20387.3	21229.5
77.5°	402.1	370.6	665.3	743.2	863.2	1052.7	1351.7	6425.9	11418.0	11651.7
80°	250.6	259.0	528.5	598.0	663.2	530.6	619.0	2473.9	3958.3	3760.4
82.5°	14.7	33.7	406.4	431.6	454.8	227.4	233.7	840.1	953.8	875.9
85°	0.0	0.0	185.3	149.5	157.9	65.3	67.4	195.8	128.4	139.0
87.5°	0.0	0.0	0.0	4.2	0.0	6.3	12.6	16.8	6.3	8.4
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°
3909.9	0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
4109.9	2.5°	3962.5	3815.1	3516.1	3223.5	2985.6	2764.5	2606.6	2457.1	2381.3	2377.1
4375.2	5°	4082.5	3773.0	3175.1	2646.6	2221.3	1880.2	1659.1	1501.2	1421.2	1393.8
4701.5	7.5°	4250.9	3785.6	2876.1	2141.3	1640.2	1347.5	1221.2	1170.6	1153.8	1134.8
5070.0	10°	4463.6	3815.1	2608.7	1724.4	1292.8	1145.4	1094.8	1073.8	1061.2	1048.5
5484.8	12.5°	4701.5	3842.5	2343.4	1431.7	1137.0	1061.2	1025.4	1000.1	983.3	968.5
5910.1	15°	4933.1	3859.3	2067.6	1227.5	1056.9	995.9	958.0	930.6	907.5	890.6
6326.9	17.5°	5162.6	3882.5	1808.6	1105.4	991.7	930.6	892.7	859.0	840.1	821.1
6764.9	20°	5417.4	3878.3	1564.4	1019.0	926.4	865.3	825.3	793.8	774.8	753.8
7228.1	22.5°	5653.2	3857.2	1349.6	945.4	859.0	800.1	755.9	724.3	705.3	688.5
7701.8	25°	5924.8	3840.4	1170.6	878.0	795.9	736.9	688.5	659.0	638.0	623.2
8177.7	27.5°	6185.9	3815.1	1040.1	816.9	734.8	678.0	631.6	598.0	579.0	568.5
8668.2	30°	6442.7	3808.8	991.7	758.0	680.1	623.2	576.9	545.3	530.6	526.4
9207.2	32.5°	6752.2	3825.6	1012.7	736.9	629.5	572.7	528.5	505.3	490.6	490.6
9807.3	35°	7082.8	3821.4	1044.3	755.9	595.8	522.2	488.5	473.7	459.0	459.0
10472.6	37.5°	7497.6	3827.7	1069.6	787.4	583.2	480.0	461.1	442.1	433.7	433.7
11201.1	40°	8116.6	4036.2	1056.9	814.8	579.0	450.6	412.7	406.4	400.0	400.0
12024.3	42.5°	8874.6	4488.9	1073.8	816.9	576.9	429.5	379.0	391.6	376.9	374.8
12952.9	45°	9704.1	4983.7	1181.2	772.7	574.8	419.0	362.1	376.9	353.7	353.7
14028.8	47.5°	10527.4	5474.2	1290.7	709.5	568.5	416.9	347.4	339.0	332.7	334.8
15431.0	50°	11662.2	5874.3	1332.8	623.2	553.7	412.7	320.0	322.1	317.9	322.1
17408.0	52.5°	12898.1	5958.5	1282.2	526.4	511.6	400.0	301.1	309.5	307.4	311.6
18799.8	55°	13668.7	5867.9	1059.1	437.9	446.4	349.5	282.1	299.0	299.0	299.0
20159.9	57.5°	14464.6	5482.6	751.7	355.8	370.6	286.3	265.3	288.4	286.3	284.2
21797.9	60°	15037.3	4859.4	494.8	292.7	294.8	235.8	246.3	271.6	269.5	259.0
23486.5	62.5°	15464.7	4170.9	317.9	248.4	225.3	212.7	225.3	246.3	237.9	214.8
24918.3	65°	15416.3	3217.2	244.2	212.7	185.3	185.3	195.8	214.8	189.5	151.6
25192.0	67.5°	14517.2	2177.1	202.1	179.0	155.8	153.7	162.1	179.0	162.1	128.4
23789.7	70°	12910.7	1423.3	162.1	139.0	124.2	113.7	130.5	153.7	136.9	103.2
20252.5	72.5°	10478.9	867.5	122.1	101.1	90.5	73.7	103.2	126.3	109.5	75.8
14083.5	75°	6779.6	442.1	84.2	65.3	48.4	44.2	75.8	94.7	75.8	46.3
6249.0	77.5°	2593.9	185.3	46.3	29.5	25.3	21.1	42.1	56.8	31.6	10.5
1210.6	80°	499.0	77.9	23.2	14.7	12.6	8.4	6.3	4.2	0.0	0.0
214.8	82.5°	86.3	25.3	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
42.1	85°	29.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.7	87.5°	10.5	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>
3909.9
2372.9
1389.6
1130.6
1044.3
964.3
888.5
819.0
751.7
686.4
621.1
568.5
524.3
490.6
459.0
433.7
400.0
372.7
353.7
334.8
322.1
311.6
299.0
284.2
259.0
210.5
147.4
124.2
99.0
71.6
40.0
8.4
0.0
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