

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: P957155

Luminaire Tested: **GALN-SB9C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957155
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-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 47214 lumens
Efficiency: N/A
Efficacy: 105.0 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

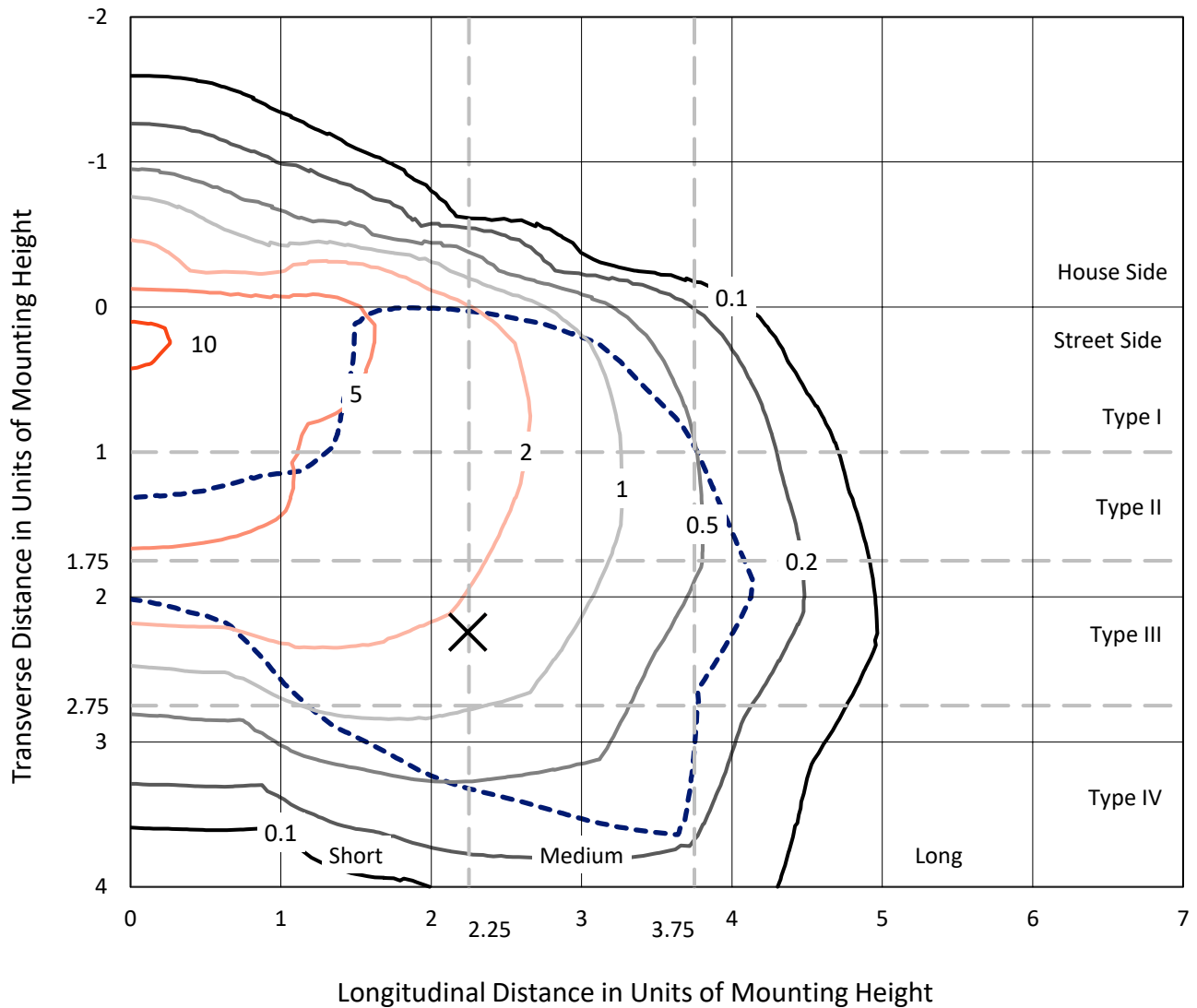
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

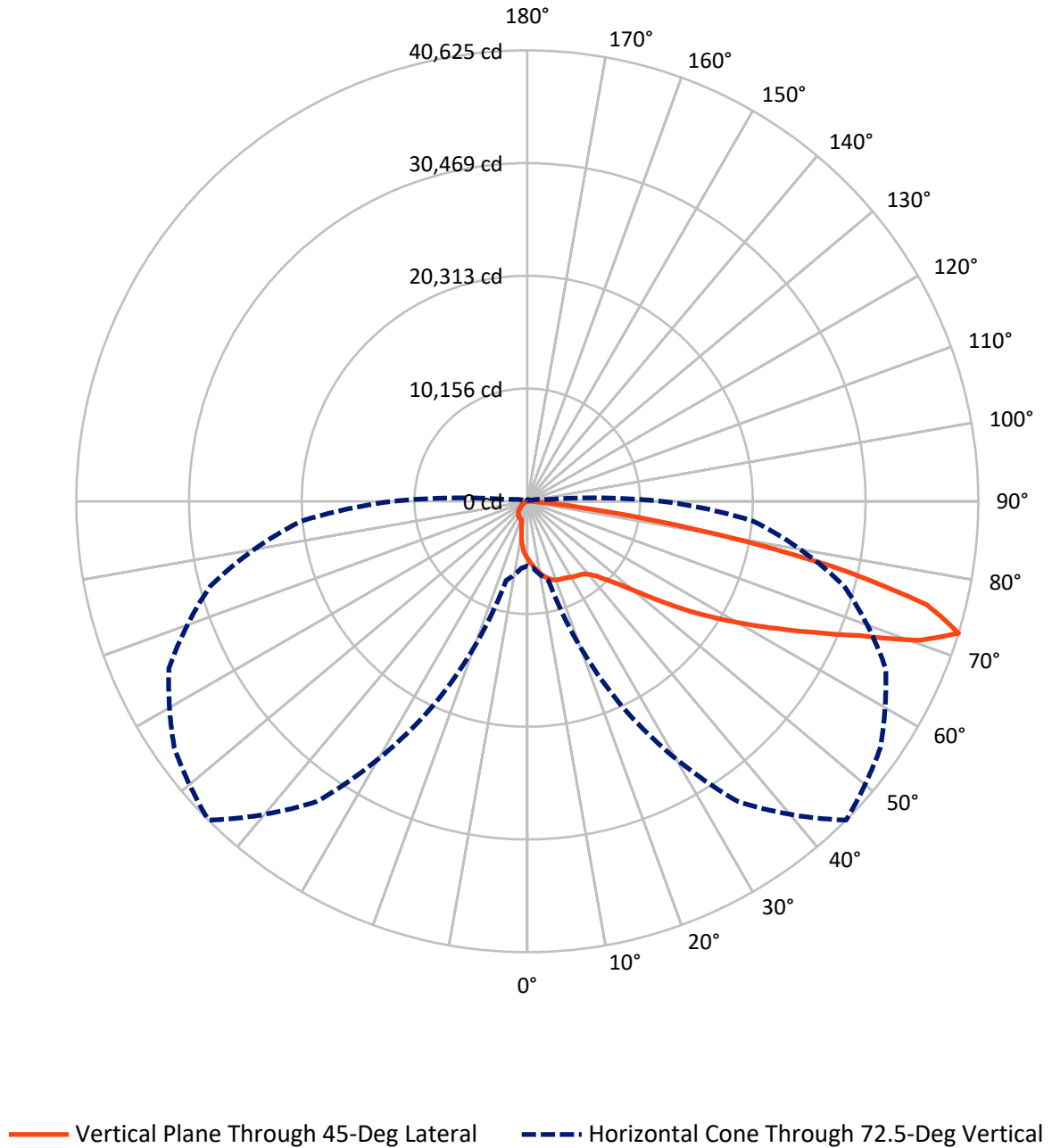
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4960.9	0.0	4960.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	42253.1	0.0	42253.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	47214.0	0.0	47214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.3	1.0
10°-20°	1424.3	3.0
20°-30°	2338.9	5.0
30°-40°	3317.1	7.0
40°-50°	5482.9	11.6
50°-60°	9849.4	20.9
60°-70°	13676.4	29.0
70°-80°	9920.4	21.0
80°-90°	717.2	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°	47214.0	100.0
0°-180°	47214.0	100.0

Coefficient of Utilization

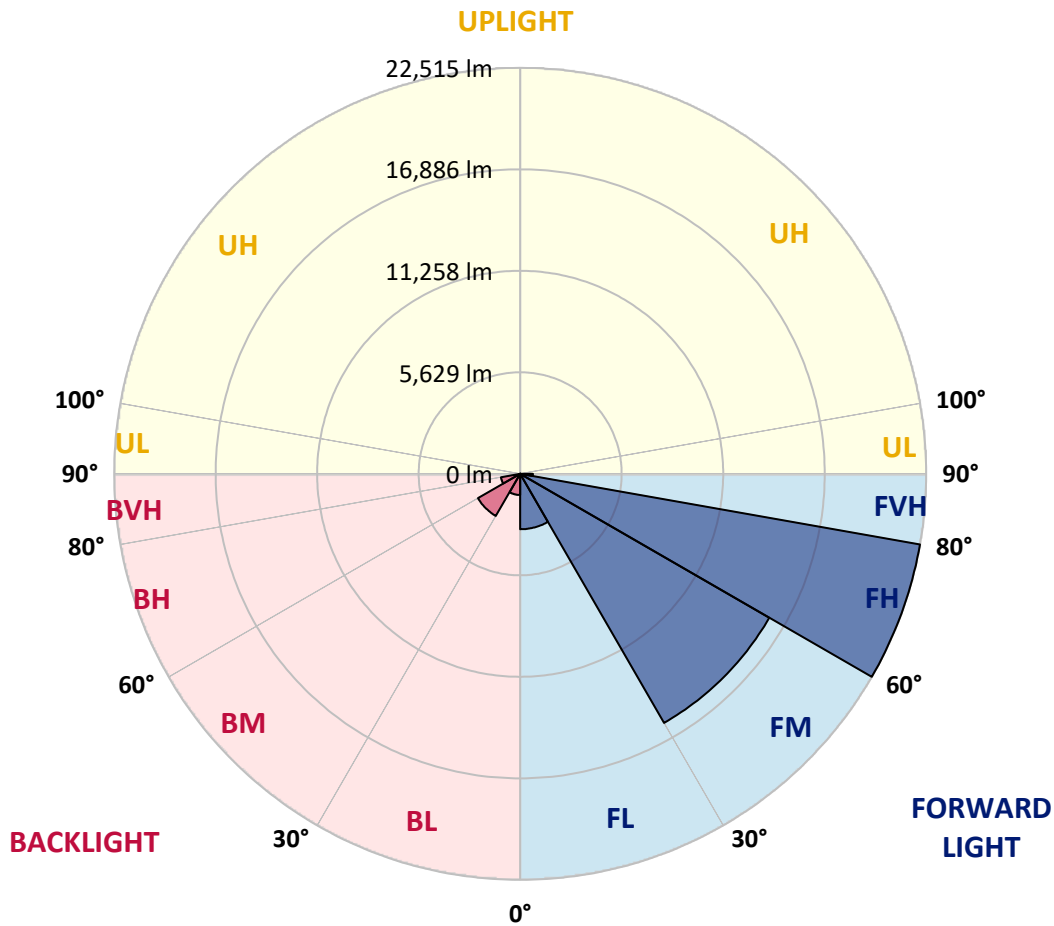


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3075.5	6.5			
FM (30°-60°)	15951.4	33.8			
FH (60°-80°)	22515.0	47.7			G5
FVH (80°-90°)	711.2	1.5			G4/750
BL (0°-30°)	1175.0	2.5	B3/2500		
BM (30°-60°)	2698.0	5.7	B3/5000		
BH (60°-80°)	1081.8	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.0	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°	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4
2.5°	5649.4	5659.0	5652.6	5613.9	5549.4	5514.0	5494.7	5430.2	5388.3	5314.2
5°	6168.2	6206.9	6184.3	6107.0	5984.5	5897.5	5871.7	5739.6	5620.3	5481.8
7.5°	6719.3	6738.6	6696.7	6596.8	6432.5	6284.2	6261.7	6078.0	5887.8	5675.1
10°	7196.2	7218.8	7154.3	7009.3	6822.4	6638.7	6606.5	6403.5	6177.9	5916.8
12.5°	7595.8	7618.4	7534.6	7360.6	7154.3	6964.2	6932.0	6719.3	6471.1	6181.1
15°	7898.8	7940.7	7827.9	7641.0	7418.6	7228.5	7212.3	7002.9	6761.2	6438.9
17.5°	8076.0	8117.9	8011.6	7786.0	7595.8	7434.7	7415.4	7241.4	7015.8	6706.4
20°	8105.0	8143.7	8030.9	7834.3	7676.4	7547.5	7537.8	7412.2	7247.8	6951.3
22.5°	8018.0	8066.4	7963.2	7805.3	7695.7	7628.1	7615.2	7544.3	7450.8	7199.5
25°	7927.8	7966.5	7889.1	7750.5	7692.5	7686.1	7695.7	7682.9	7663.5	7450.8
27.5°	7921.3	7963.2	7876.2	7744.1	7711.9	7779.5	7789.2	7850.4	7866.6	7679.6
30°	7976.1	8005.1	7921.3	7782.8	7766.6	7921.3	7924.6	8034.1	8059.9	7873.0
32.5°	8095.4	8127.6	8043.8	7840.8	7818.2	8034.1	8043.8	8188.8	8230.7	8079.2
35°	8375.7	8414.4	8317.7	8001.9	7921.3	8140.5	8169.5	8340.3	8424.1	8298.4
37.5°	9075.1	8962.3	8830.1	8327.4	8156.6	8308.1	8356.4	8556.2	8704.4	8559.4
40°	10812.1	10457.6	10045.1	8881.7	8569.1	8665.8	8704.4	8904.3	9107.3	8965.5
42.5°	13419.2	13000.3	12336.4	10157.9	9191.1	9239.4	9268.4	9442.4	9729.3	9616.5
45°	15742.8	15591.3	14914.5	12336.4	10354.5	10116.0	10151.4	10241.7	10663.8	10621.9
47.5°	17528.1	17441.1	16919.0	14837.2	12320.3	11189.1	11289.0	11330.9	11940.0	12088.3
50°	18901.0	18868.8	18401.5	17060.8	14888.8	12771.5	12806.9	12716.7	13628.7	13996.1
52.5°	20196.5	20306.1	19961.3	19126.6	17631.3	14843.6	14837.2	14411.8	15642.9	16197.2
55°	21366.3	21405.0	21440.5	21234.2	20389.9	17202.6	17141.4	16445.3	17979.3	18552.9
57.5°	22465.3	22481.4	22797.2	23219.4	23261.3	19735.7	19622.9	18788.2	20531.7	20940.9
60°	23203.3	23277.4	23944.5	25117.5	25629.9	22349.3	22288.0	21437.2	23129.1	23319.3
62.5°	22139.8	22591.0	24273.2	26600.0	27866.5	25246.4	25217.4	24418.2	25862.0	25707.3
65°	17921.3	18685.1	21643.5	27602.2	30061.1	28482.0	28523.9	27673.1	28668.9	28166.2
67.5°	12536.2	13341.9	16841.7	27682.8	32513.6	32281.5	32523.2	31189.1	31649.9	30522.0
70°	8669.0	9084.7	11363.2	25949.0	34424.6	37515.2	37508.7	35507.4	34614.8	31595.1
72.5°	5829.8	6045.7	7379.9	20586.5	33019.5	40625.0	40438.1	38807.5	35613.8	29548.7
75°	2458.9	2616.8	3416.0	11569.4	26123.0	37167.1	36661.2	34295.7	31643.5	23267.7
77.5°	779.9	847.6	1347.1	4141.1	14389.2	27937.4	27402.4	21417.9	21208.4	11672.5
80°	370.6	431.8	757.3	1662.9	5662.2	15194.9	15120.8	9716.4	9123.4	3151.8
82.5°	161.1	190.1	418.9	889.5	2533.0	5420.5	5530.1	3306.5	2736.1	1195.6
85°	51.6	67.7	193.4	409.3	1069.9	1347.1	1331.0	786.3	1102.2	651.0
87.5°	0.0	0.0	64.5	93.5	109.6	77.3	87.0	67.7	306.2	180.5
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°
5172.4	0°	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4	5172.4
5236.8	2.5°	5198.2	5146.6	5056.4	4972.6	4898.5	4824.3	4779.2	4714.8	4708.3	4708.3
5320.6	5°	5233.6	5149.8	4988.7	4817.9	4621.3	4434.4	4247.5	4067.0	4009.0	3967.1
5456.0	7.5°	5336.8	5204.6	4950.0	4624.5	4250.7	3841.4	3554.6	3245.2	3126.0	3061.5
5636.5	10°	5485.0	5304.5	4917.8	4347.4	3741.5	3184.0	2774.7	2439.6	2310.7	2255.9
5833.0	12.5°	5649.4	5427.0	4859.8	4002.6	3184.0	2516.9	2117.3	1962.6	1943.3	1943.3
6068.3	15°	5845.9	5575.2	4759.9	3596.5	2600.7	1991.6	1849.8	1856.3	1875.6	1888.5
6297.1	17.5°	6049.0	5733.1	4602.0	3142.1	2085.1	1791.8	1795.0	1804.7	1820.8	1833.7
6545.3	20°	6268.1	5891.1	4392.5	2658.7	1788.6	1733.8	1743.5	1753.1	1766.0	1772.5
6777.3	22.5°	6503.4	6039.3	4144.4	2185.0	1688.7	1685.5	1688.7	1698.3	1714.5	1714.5
7048.0	25°	6754.7	6203.7	3860.8	1840.1	1637.1	1637.1	1643.6	1650.0	1662.9	1662.9
7309.0	27.5°	7012.5	6355.1	3561.1	1659.7	1592.0	1588.8	1588.8	1598.4	1604.9	1608.1
7566.8	30°	7296.1	6532.4	3261.3	1621.0	1556.6	1540.4	1530.8	1537.2	1543.7	1546.9
7837.5	32.5°	7586.2	6703.2	2993.9	1637.1	1521.1	1492.1	1459.9	1453.4	1453.4	1466.3
8117.9	35°	7908.4	6890.1	2787.6	1691.9	1501.8	1421.2	1369.6	1340.6	1343.9	1363.2
8453.1	37.5°	8295.2	7115.7	2636.1	1740.2	1488.9	1340.6	1256.8	1221.4	1198.8	1221.4
8913.9	40°	8801.1	7447.6	2526.6	1778.9	1472.8	1247.2	1134.4	1076.4	1034.5	1047.4
9629.4	42.5°	9545.6	7969.7	2484.7	1782.1	1437.3	1137.6	1008.7	931.4	870.1	873.3
10705.7	45°	10589.7	8794.7	2700.6	1740.2	1360.0	1018.4	876.6	773.4	734.8	725.1
12313.8	47.5°	12020.6	9996.7	3200.1	1653.2	1247.2	902.3	747.7	660.6	631.6	615.5
14424.7	50°	13938.1	11540.4	3754.4	1556.6	1134.4	792.8	641.3	586.5	567.2	551.1
16928.7	52.5°	16161.7	13106.6	4208.8	1459.9	1021.6	696.1	573.6	541.4	525.3	512.4
19345.7	55°	18201.7	14186.2	4183.0	1356.7	912.0	618.8	525.3	506.0	486.6	473.7
21427.6	57.5°	19471.4	14337.7	3448.3	1244.0	786.3	557.5	480.2	467.3	444.7	428.6
23229.0	60°	20054.7	13474.0	2417.0	1095.7	660.6	499.5	431.8	425.4	396.4	373.8
24933.8	62.5°	20161.1	11869.1	1611.3	912.0	551.1	444.7	383.5	373.8	335.2	296.5
26319.6	65°	19729.2	9574.6	1115.0	712.2	470.5	386.7	328.7	309.4	267.5	228.8
26648.3	67.5°	18362.8	6722.5	776.7	512.4	399.6	306.2	261.0	254.6	222.4	190.1
24972.5	70°	15858.8	3831.8	518.9	383.5	315.8	209.5	206.3	212.7	180.5	154.7
20402.8	72.5°	12159.2	1753.1	322.3	280.4	215.9	141.8	164.4	167.6	138.6	116.0
12729.6	75°	7157.6	750.9	203.0	180.5	109.6	93.5	119.2	122.5	93.5	74.1
4653.5	77.5°	2436.3	283.6	128.9	106.3	54.8	51.6	77.3	77.3	51.6	29.0
934.6	80°	554.3	106.3	64.5	41.9	25.8	22.6	25.8	22.6	12.9	3.2
286.8	82.5°	157.9	41.9	25.8	16.1	9.7	9.7	3.2	0.0	0.0	0.0
99.9	85°	45.1	19.3	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0
35.4	87.5°	19.3	3.2	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>
5172.4
4724.4
3986.4
3071.2
2255.9
1943.3
1888.5
1833.7
1775.7
1720.9
1666.1
1611.3
1553.3
1476.0
1372.9
1214.9
1040.9
860.5
712.2
605.9
547.9
509.2
467.3
425.4
367.4
277.2
215.9
180.5
141.8
<i>103.1</i>
64.5
22.6
0.0
0.0
0.0
0.0
0.0

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