

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: P954572

Luminaire Tested: **GALN-SB7D-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954572
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-SB7D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 900mA 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: 58976 lumens
Efficiency: N/A
Efficacy: 115.0 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

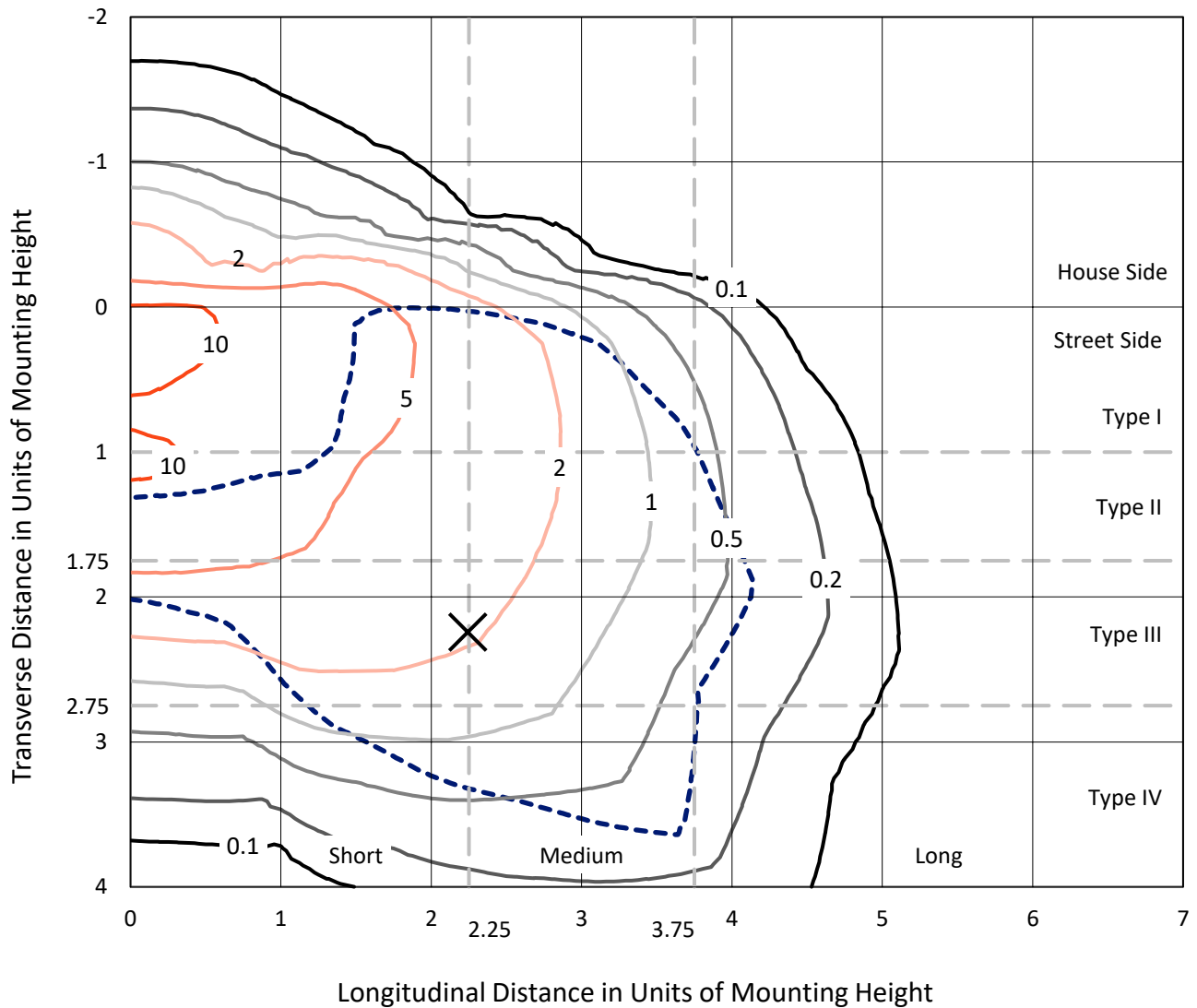
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

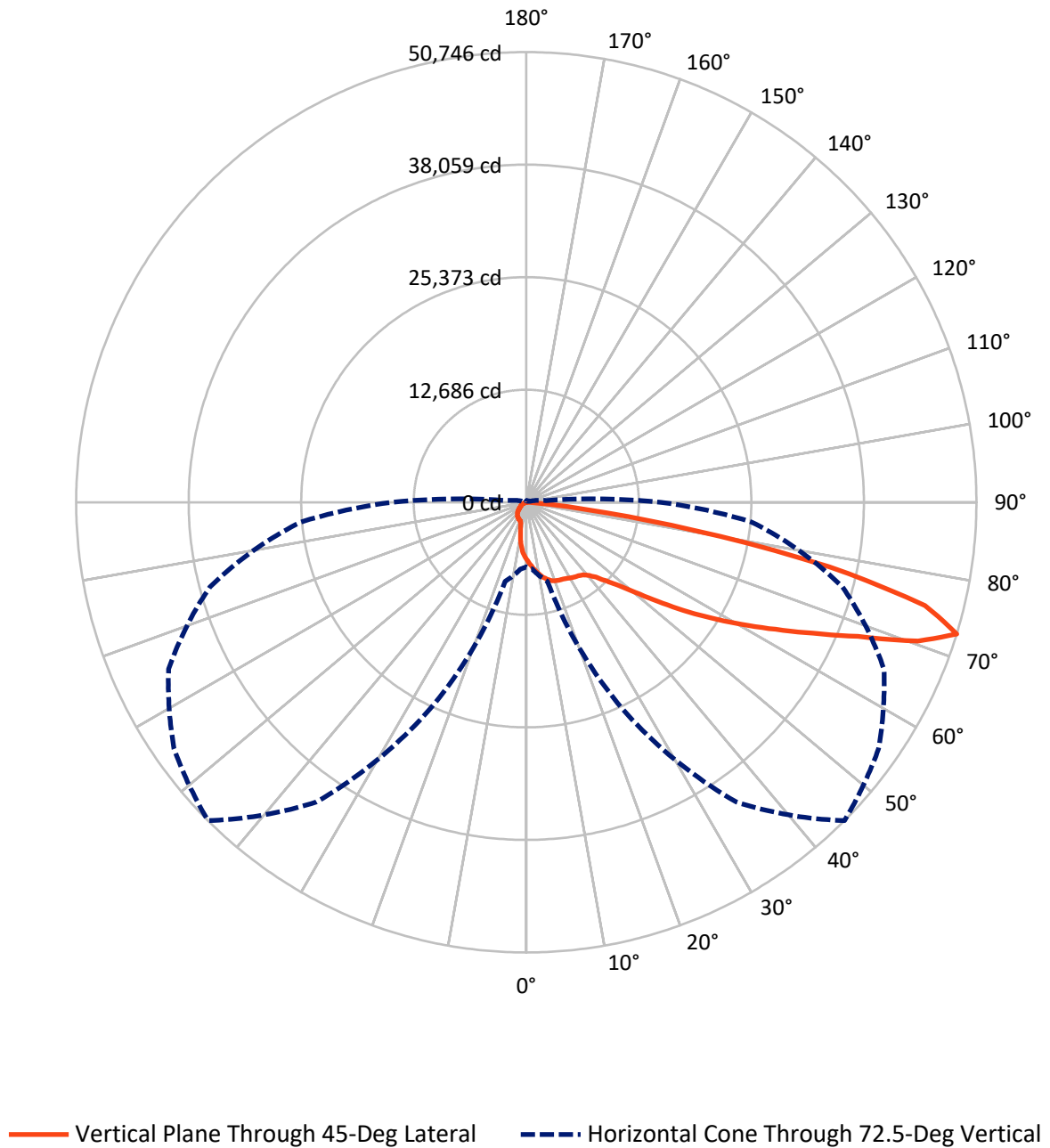
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	6196.7	0.0	6196.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	52779.3	0.0	52779.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	58976.0	0.0	58976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.7	1.0
10°-20°	1779.1	3.0
20°-30°	2921.6	5.0
30°-40°	4143.5	7.0
40°-50°	6848.8	11.6
50°-60°	12303.1	20.9
60°-70°	17083.5	29.0
70°-80°	12391.8	21.0
80°-90°	895.9	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°	58976.0	100.0
0°-180°	58976.0	100.0

Coefficient of Utilization



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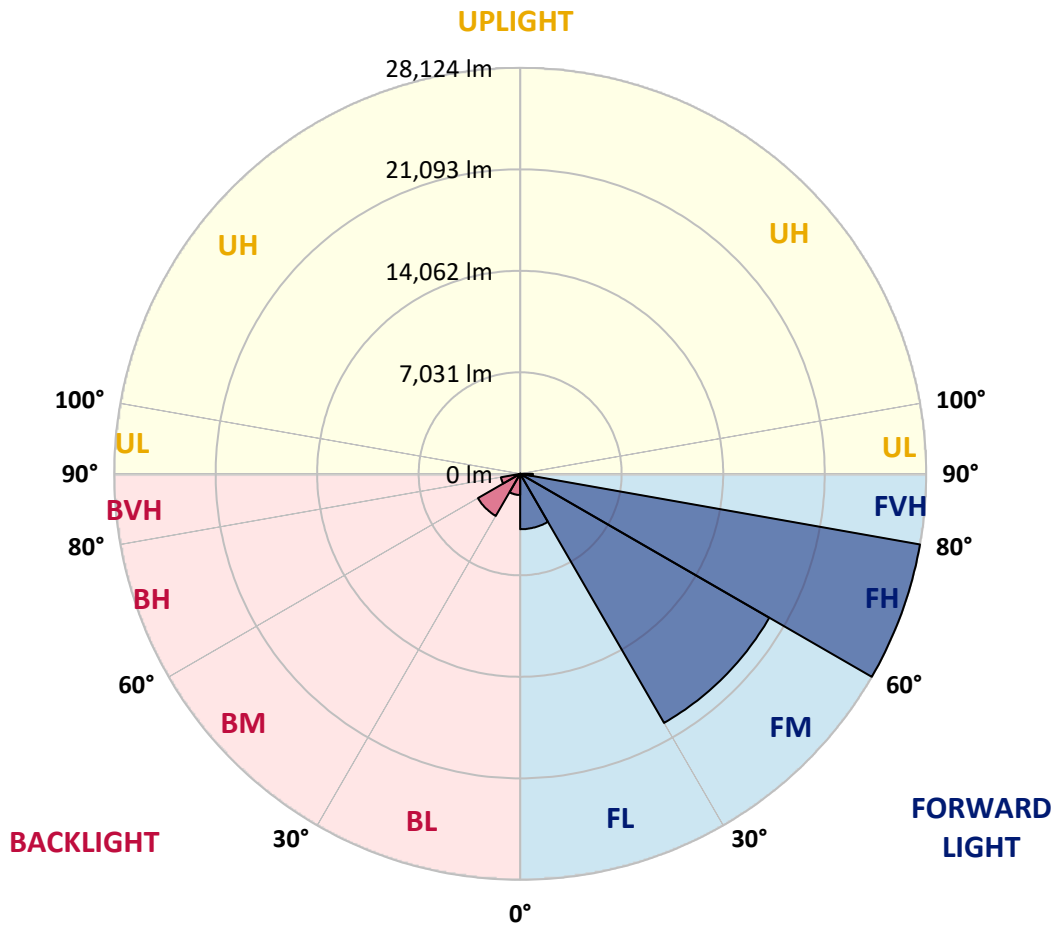
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3841.7	6.5			
FM (30°-60°)	19925.2	33.8			
FH (60°-80°)	28124.0	47.7			G5
FVH (80°-90°)	888.4	1.5			G5
BL (0°-30°)	1467.8	2.5	B3/2500		
BM (30°-60°)	3370.1	5.7	B3/5000		
BH (60°-80°)	1351.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	7.5	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°	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9
2.5°	7056.7	7068.8	7060.7	7012.4	6931.9	6887.7	6863.5	6783.0	6730.7	6638.1
5°	7704.8	7753.1	7725.0	7628.3	7475.4	7366.7	7334.5	7169.4	7020.5	6847.4
7.5°	8393.2	8417.3	8365.0	8240.2	8034.9	7849.7	7821.6	7592.1	7354.6	7088.9
10°	8989.0	9017.1	8936.6	8755.5	8522.0	8292.6	8252.3	7998.7	7716.9	7390.8
12.5°	9488.1	9516.3	9411.6	9194.3	8936.6	8699.1	8658.9	8393.2	8083.2	7720.9
15°	9866.5	9918.9	9778.0	9544.5	9266.7	9029.2	9009.1	8747.4	8445.5	8043.0
17.5°	10087.9	10140.3	10007.4	9725.6	9488.1	9286.9	9262.7	9045.3	8763.5	8377.1
20°	10124.2	10172.5	10031.6	9786.0	9588.8	9427.7	9415.7	9258.7	9053.4	8683.0
22.5°	10015.5	10075.9	9947.0	9749.8	9612.9	9528.4	9512.3	9423.7	9307.0	8993.0
25°	9902.8	9951.1	9854.5	9681.4	9608.9	9600.8	9612.9	9596.8	9572.7	9307.0
27.5°	9894.7	9947.0	9838.4	9673.3	9633.0	9717.6	9729.7	9806.1	9826.3	9592.8
30°	9963.1	9999.4	9894.7	9721.6	9701.5	9894.7	9898.7	10035.6	10067.8	9834.3
32.5°	10112.1	10152.3	10047.7	9794.1	9765.9	10035.6	10047.7	10228.8	10281.2	10092.0
35°	10462.3	10510.6	10389.8	9995.3	9894.7	10168.4	10204.7	10418.0	10522.7	10365.7
37.5°	11335.8	11194.9	11029.9	10401.9	10188.6	10377.8	10438.2	10687.7	10872.9	10691.8
40°	13505.6	13062.8	12547.5	11094.3	10703.8	10824.6	10872.9	11122.5	11376.1	11199.0
42.5°	16762.2	16238.9	15409.7	12688.4	11480.8	11541.1	11577.4	11794.7	12153.0	12012.1
45°	19664.6	19475.4	18630.1	15409.7	12934.0	12636.1	12680.4	12793.1	13320.4	13268.1
47.5°	21894.8	21786.1	21133.9	18533.5	15389.5	13976.6	14101.4	14153.7	14914.5	15099.7
50°	23609.6	23569.4	22985.7	21311.1	18597.9	15953.1	15997.4	15884.7	17023.9	17482.8
52.5°	25227.9	25364.7	24934.0	23891.4	22023.6	18541.5	18533.5	18002.1	19539.8	20232.2
55°	26689.1	26737.4	26781.7	26524.1	25469.4	21488.2	21411.7	20542.2	22458.3	23174.9
57.5°	28061.8	28082.0	28476.5	29003.8	29056.1	24652.2	24511.3	23468.7	25646.5	26157.8
60°	28983.7	29076.3	29909.6	31374.8	32014.9	27916.9	27840.4	26777.7	28891.1	29128.6
62.5°	27655.3	28218.8	30320.2	33226.6	34808.6	31535.9	31499.6	30501.3	32304.7	32111.5
65°	22385.9	23339.9	27035.3	34478.5	37550.0	35577.5	35629.8	34567.1	35811.0	35183.0
67.5°	15659.2	16665.6	21037.3	34579.1	40613.4	40323.6	40625.5	38958.9	39534.6	38125.6
70°	10828.6	11347.9	14194.0	32413.4	43000.5	46861.0	46852.9	44353.1	43238.0	39466.1
72.5°	7282.2	7551.9	9218.4	25715.0	41245.4	50745.6	50512.1	48475.2	44485.9	36909.9
75°	3071.5	3268.7	4267.0	14451.6	32630.8	46426.2	45794.2	42839.5	39526.5	29064.2
77.5°	974.2	1058.7	1682.7	5172.8	17973.9	34897.2	34228.9	26753.6	26491.9	14580.4
80°	462.9	539.4	946.0	2077.2	7072.8	18980.3	18887.7	12136.9	11396.2	3937.0
82.5°	201.3	237.5	523.3	1111.0	3164.1	6770.9	6907.8	4130.2	3417.7	1493.5
85°	64.4	84.5	241.5	511.2	1336.5	1682.7	1662.5	982.2	1376.7	813.2
87.5°	0.0	0.0	80.5	116.7	136.9	96.6	108.7	84.5	382.4	225.4
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°
6460.9	0°	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9	6460.9
6541.5	2.5°	6493.2	6428.7	6316.0	6211.4	6118.8	6026.2	5969.8	5889.3	5881.3	5881.3
6646.1	5°	6537.4	6432.8	6231.5	6018.1	5772.6	5539.1	5305.6	5080.2	5007.7	4955.4
6815.2	7.5°	6666.2	6501.2	6183.2	5776.6	5309.6	4798.4	4440.1	4053.7	3904.7	3824.2
7040.6	10°	6851.4	6626.0	6142.9	5430.4	4673.6	3977.2	3466.0	3047.3	2886.3	2817.9
7286.2	12.5°	7056.7	6779.0	6070.5	4999.7	3977.2	3143.9	2644.8	2451.5	2427.4	2427.4
7580.0	15°	7302.3	6964.1	5945.7	4492.5	3248.6	2487.8	2310.6	2318.7	2342.8	2358.9
7865.8	17.5°	7555.9	7161.4	5748.4	3924.9	2604.5	2238.2	2242.2	2254.3	2274.4	2290.5
8175.8	20°	7829.6	7358.6	5486.8	3321.0	2234.2	2165.7	2177.8	2189.9	2206.0	2214.0
8465.7	22.5°	8123.5	7543.8	5176.8	2729.3	2109.4	2105.3	2109.4	2121.4	2141.6	2141.6
8803.8	25°	8437.5	7749.1	4822.6	2298.6	2045.0	2045.0	2053.0	2061.1	2077.2	2077.2
9129.9	27.5°	8759.5	7938.3	4448.2	2073.1	1988.6	1984.6	1984.6	1996.7	2004.7	2008.7
9451.9	30°	9113.8	8159.7	4073.8	2024.8	1944.3	1924.2	1912.1	1920.2	1928.2	1932.2
9790.0	32.5°	9476.1	8373.1	3739.7	2045.0	1900.0	1863.8	1823.6	1815.5	1815.5	1831.6
10140.3	35°	9878.6	8606.5	3482.1	2113.4	1875.9	1775.3	1710.8	1674.6	1678.6	1702.8
10558.9	37.5°	10361.7	8888.3	3292.9	2173.8	1859.8	1674.6	1569.9	1525.7	1497.5	1525.7
11134.6	40°	10993.7	9303.0	3156.0	2222.1	1839.7	1557.9	1417.0	1344.5	1292.2	1308.3
12028.2	42.5°	11923.6	9955.1	3103.7	2226.1	1795.4	1421.0	1260.0	1163.4	1086.9	1090.9
13372.7	45°	13227.8	10985.6	3373.4	2173.8	1698.8	1272.1	1094.9	966.1	917.8	905.7
15381.5	47.5°	15015.2	12487.1	3997.3	2065.1	1557.9	1127.1	933.9	825.2	789.0	768.9
18018.2	50°	17410.3	14415.4	4689.7	1944.3	1417.0	990.3	801.1	732.6	708.5	688.4
21146.0	52.5°	20187.9	16371.8	5257.3	1823.6	1276.1	869.5	716.5	676.3	656.2	640.1
24165.1	55°	22736.1	17720.3	5225.1	1694.7	1139.2	772.9	656.2	632.0	607.9	591.8
26765.6	57.5°	24322.1	17909.5	4307.3	1553.8	982.2	696.4	599.8	583.7	555.5	535.4
29015.9	60°	25050.8	16830.7	3019.1	1368.7	825.2	624.0	539.4	531.4	495.1	467.0
31145.4	62.5°	25183.6	14826.0	2012.8	1139.2	688.4	555.5	479.0	467.0	418.7	370.3
32876.4	65°	24644.2	11959.8	1392.8	889.6	587.7	483.1	410.6	386.4	334.1	285.8
33287.0	67.5°	22937.4	8397.2	970.1	640.1	499.2	382.4	326.1	318.0	277.8	237.5
31193.7	70°	19809.5	4786.3	648.1	479.0	394.5	261.7	257.6	265.7	225.4	193.2
25485.5	72.5°	15188.3	2189.9	402.6	350.2	269.7	177.1	205.3	209.3	173.1	144.9
15900.8	75°	8940.7	937.9	253.6	225.4	136.9	116.7	148.9	153.0	116.7	92.6
5812.8	77.5°	3043.3	354.2	161.0	132.8	68.4	64.4	96.6	96.6	64.4	36.2
1167.4	80°	692.4	132.8	80.5	52.3	32.2	28.2	32.2	28.2	16.1	4.0
358.3	82.5°	197.3	52.3	32.2	20.1	12.1	12.1	4.0	0.0	0.0	0.0
124.8	85°	56.4	24.2	8.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
44.3	87.5°	24.2	4.0	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

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<u>180°</u>
6460.9
5901.4
4979.6
3836.3
2817.9
2427.4
2358.9
2290.5
2218.1
2149.6
2081.2
2012.8
1940.3
1843.7
1714.9
1517.6
1300.2
1074.8
889.6
756.8
684.3
636.0
583.7
531.4
458.9
346.2
269.7
225.4
177.1
128.8
80.5
28.2
0.0
0.0
0.0
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0.0

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