

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: P942024

Luminaire Tested: **GALN-SB5D-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942024
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-SB5D-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA 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: 33728 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

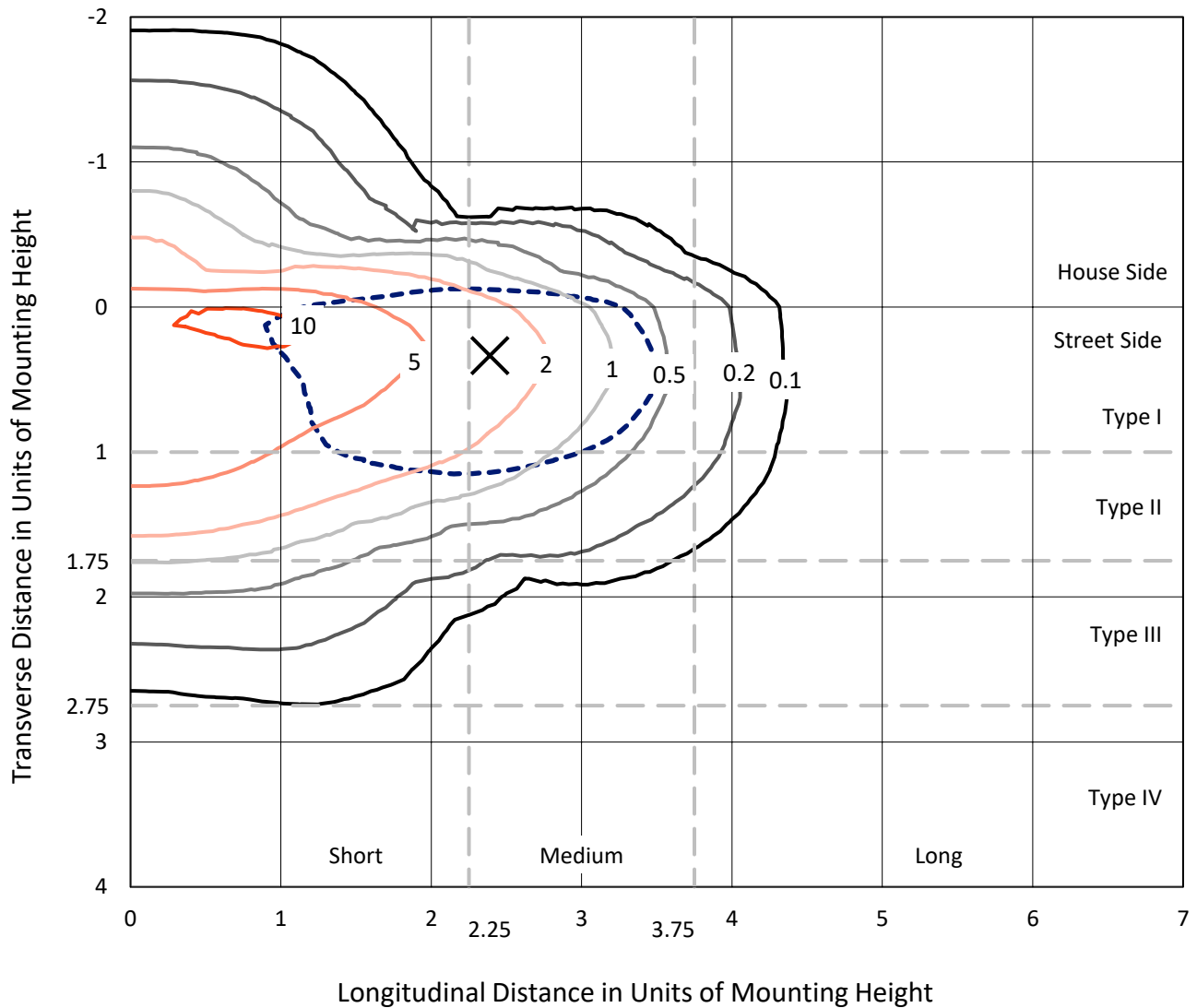
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

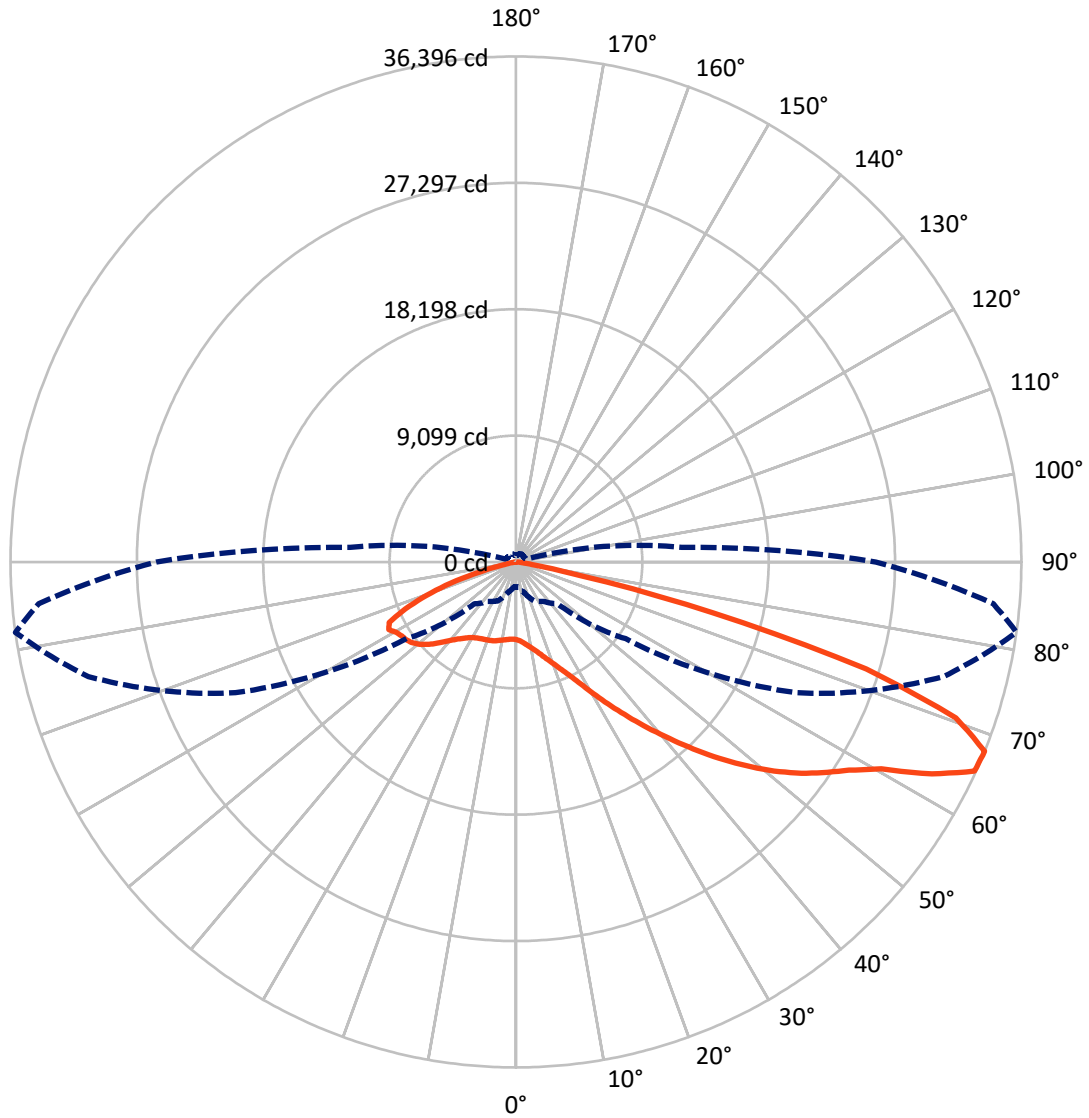
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	6109.5	0.0	6109.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27618.5	0.0	27618.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	33728.0	0.0	33728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.8	1.5
10°-20°	1293.6	3.8
20°-30°	2072.0	6.1
30°-40°	3663.9	10.9
40°-50°	6419.4	19.0
50°-60°	8561.7	25.4
60°-70°	7970.5	23.6
70°-80°	3059.1	9.1
80°-90°	190.0	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°	33728.0	100.0
0°-180°	33728.0	100.0

Coefficient of Utilization



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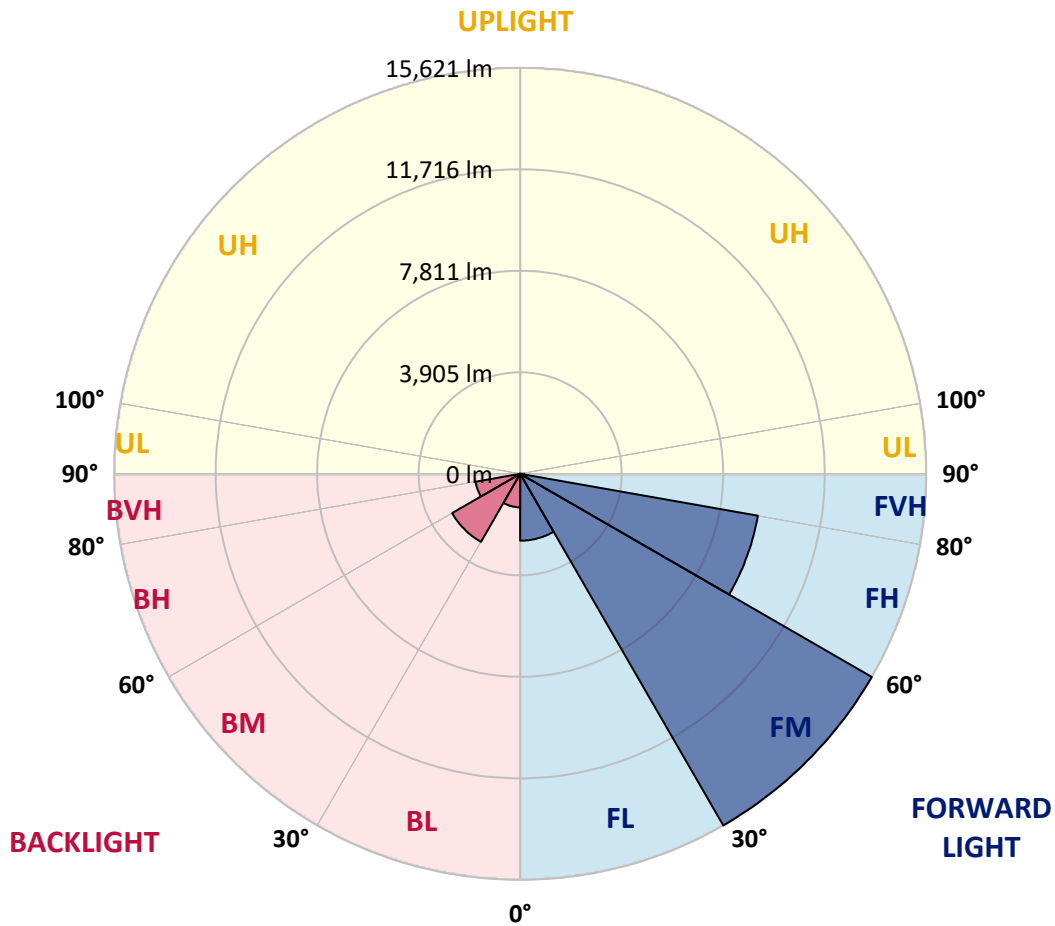
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2573.1	7.6			
FM (30°-60°)	15621.4	46.3			
FH (60°-80°)	9285.8	27.5			G4/12000
FVH (80°-90°)	138.1	0.4			G2/225
BL (0°-30°)	1290.3	3.8	B3/2500		
BM (30°-60°)	3023.6	9.0	B3/5000		
BH (60°-80°)	1743.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	51.9	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6
2.5°	5905.7	5939.7	5920.3	5910.6	5893.6	5869.3	5849.8	5789.1	5726.0	5684.7
5°	6024.7	6058.7	6056.3	6066.0	6078.1	6085.4	6080.5	6012.5	5922.7	5852.3
7.5°	5922.7	5961.6	5993.1	6041.7	6126.7	6216.5	6260.2	6245.7	6153.4	6056.3
10°	5633.7	5675.0	5750.3	5864.4	6044.1	6238.4	6401.1	6476.4	6418.1	6311.2
12.5°	5104.4	5145.6	5293.8	5541.4	5842.6	6180.1	6490.9	6692.5	6707.0	6600.2
15°	4509.4	4550.7	4708.5	5019.4	5478.3	6019.8	6539.5	6920.7	7049.4	6957.2
17.5°	4140.3	4176.7	4295.7	4545.8	5024.2	5699.3	6522.5	7163.6	7457.4	7384.6
20°	4028.6	4060.2	4116.0	4290.9	4689.1	5366.6	6410.8	7391.8	7896.9	7855.6
22.5°	4147.6	4176.7	4193.7	4271.4	4521.6	5148.1	6269.9	7625.0	8406.9	8411.7
25°	4422.0	4451.1	4431.7	4480.3	4589.5	5080.1	6216.5	7899.4	9048.0	9101.4
27.5°	4873.7	4876.1	4829.9	4827.5	4844.5	5182.1	6272.4	8193.2	9856.6	9956.2
30°	5779.4	5743.0	5565.7	5373.9	5286.5	5488.0	6427.8	8540.4	10810.9	10988.2
32.5°	7175.7	7122.3	6796.9	6337.9	5876.6	5981.0	6707.0	8936.3	11850.3	12170.8
35°	8691.0	8676.4	8336.5	7654.1	6847.9	6682.8	7161.1	9455.9	12984.3	13494.2
37.5°	10099.4	10092.1	9897.9	9094.1	8113.1	7661.4	7889.6	10135.9	14198.4	14936.7
40°	11386.4	11408.3	11214.0	10495.2	9506.9	8916.8	8880.4	10976.1	15548.6	16507.8
42.5°	12498.6	12522.9	12326.2	11794.4	10883.8	10305.8	10097.0	12005.7	16867.2	18195.5
45°	13253.8	13404.4	13375.2	12950.3	12297.1	11697.3	11558.9	13297.5	18370.3	19985.2
47.5°	13467.5	13605.9	13824.5	13882.8	13484.5	12894.4	13059.6	14854.1	19890.5	21777.3
50°	12940.6	13069.3	13523.4	14128.0	14404.9	14222.7	14519.0	16522.4	21447.0	23564.5
52.5°	11901.2	12032.4	12605.5	13562.2	14691.4	15264.5	15983.3	18166.3	22955.0	25257.1
55°	10398.1	10536.5	11272.3	12355.3	14145.0	15694.3	17204.7	19807.9	24336.7	26779.6
57.5°	8353.5	8455.4	9220.4	10735.6	12770.6	15266.9	18105.6	21600.0	25638.3	28275.5
60°	5444.3	5534.2	6422.9	8113.1	10492.8	13839.1	18285.3	23598.5	27367.3	30220.6
62.5°	3620.6	3681.3	4208.3	5449.2	7389.4	11097.5	17233.9	25193.9	29902.5	33605.7
65°	2484.2	2544.9	3071.8	3936.3	4774.1	7340.8	14210.6	24982.7	32199.7	36293.8
67.5°	1772.7	1823.7	2270.5	3086.4	3455.5	4264.1	9633.2	22282.4	31869.4	36395.8
70°	1270.0	1299.2	1668.3	2404.0	2746.4	2561.9	5356.9	17042.0	27903.9	33608.1
72.5°	888.8	898.5	1158.3	1831.0	2212.2	1869.8	2549.7	11362.2	21104.6	26379.0
75°	602.2	614.4	779.5	1342.9	1775.1	1427.9	1350.2	6092.7	12389.3	14601.6
77.5°	369.1	374.0	502.7	917.9	1328.3	1087.9	869.3	2581.3	4793.5	4706.1
80°	208.8	208.8	320.5	570.7	905.8	701.8	609.5	1097.6	1517.7	1333.2
82.5°	116.6	119.0	233.1	354.5	599.8	415.2	335.1	507.5	655.6	580.4
85°	48.6	53.4	143.3	167.6	286.5	206.4	136.0	213.7	242.8	216.1
87.5°	4.9	7.3	43.7	31.6	34.0	41.3	19.4	41.3	34.0	34.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5587.6	0°	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6	5587.6
5670.2	2.5°	5624.0	5587.6	5495.3	5388.5	5247.6	5179.6	5087.4	5024.2	4970.8	4975.6
5811.0	5°	5733.3	5641.0	5434.6	5177.2	4856.7	4628.4	4385.6	4218.0	4082.0	4052.9
6005.3	7.5°	5883.8	5738.1	5376.3	4912.5	4371.0	3960.6	3593.9	3358.4	3190.8	3137.4
6240.8	10°	6078.1	5866.8	5301.0	4579.8	3800.3	3278.2	2884.9	2700.3	2586.2	2547.3
6517.6	12.5°	6303.9	6015.0	5201.5	4174.3	3212.7	2710.0	2459.9	2367.6	2331.2	2319.1
6857.6	15°	6588.1	6199.5	5050.9	3693.5	2714.9	2362.8	2255.9	2243.8	2248.6	2243.8
7265.6	17.5°	6925.6	6401.1	4805.7	3198.1	2379.8	2185.5	2146.6	2156.4	2168.5	2166.1
7722.1	20°	7294.7	6600.2	4492.4	2758.6	2151.5	2059.2	2037.4	2047.1	2056.8	2051.9
8249.0	22.5°	7714.8	6813.9	4145.2	2416.2	1998.5	1942.7	1918.4	1920.8	1920.8	1911.1
8916.8	25°	8217.5	7049.4	3780.9	2173.4	1882.0	1838.2	1809.1	1799.4	1784.8	1755.7
9727.9	27.5°	8817.3	7299.6	3431.2	2003.4	1789.7	1748.4	1714.4	1690.1	1653.7	1605.1
10701.7	30°	9492.3	7603.1	3135.0	1896.5	1716.8	1675.5	1636.7	1600.3	1546.8	1486.1
11821.1	32.5°	10286.4	7928.5	2918.9	1826.1	1651.3	1607.6	1561.4	1517.7	1459.4	1398.7
13079.0	35°	11233.5	8321.9	2792.6	1777.5	1600.3	1542.0	1491.0	1442.4	1398.7	1345.3
14446.1	37.5°	12260.6	8739.6	2753.7	1753.3	1566.3	1476.4	1418.1	1384.1	1379.3	1347.7
15925.0	40°	13385.0	9234.9	2782.9	1738.7	1529.8	1413.3	1350.2	1342.9	1355.0	1299.2
17505.8	42.5°	14574.8	9822.6	2831.4	1721.7	1478.9	1350.2	1289.4	1289.4	1279.7	1202.0
19176.5	45°	15861.9	10500.1	2880.0	1680.4	1418.1	1287.0	1240.9	1223.9	1182.6	1107.3
20856.9	47.5°	17158.6	11189.7	2916.4	1605.1	1345.3	1233.6	1192.3	1153.5	1092.7	1024.8
22505.8	50°	18389.7	11809.0	2877.6	1493.4	1262.7	1182.6	1138.9	1085.5	1019.9	973.8
24067.2	52.5°	19489.8	12345.6	2712.4	1362.3	1175.3	1129.2	1090.3	1034.5	981.0	932.5
25475.6	55°	20446.5	12780.3	2421.0	1238.4	1097.6	1083.0	1044.2	973.8	900.9	859.6
26871.9	57.5°	21364.5	13110.6	2056.8	1136.5	1027.2	1032.0	973.8	910.6	842.6	798.9
28753.9	60°	22585.9	13552.5	1687.7	1041.8	951.9	966.5	903.3	857.2	772.2	716.4
31981.1	62.5°	24538.3	14239.7	1340.4	925.2	864.5	869.3	842.6	786.8	684.8	619.2
34373.0	65°	26087.6	13987.2	1056.3	798.9	764.9	772.2	772.2	711.5	602.2	526.9
34501.7	67.5°	25912.7	11976.5	842.6	675.1	670.2	675.1	692.1	641.1	534.2	473.5
31874.3	70°	23870.5	9526.3	675.1	560.9	582.8	570.7	619.2	585.2	480.8	420.1
24710.7	72.5°	19477.6	6862.5	514.8	463.8	446.8	466.2	558.5	526.9	400.7	332.7
13088.7	75°	11381.6	3661.9	383.7	366.7	323.0	388.5	495.4	449.2	306.0	245.3
4011.6	77.5°	3705.6	1277.3	281.7	269.5	240.4	313.3	422.5	378.8	250.1	194.3
1175.3	80°	993.2	386.1	191.8	177.3	155.4	233.1	335.1	301.1	179.7	126.3
505.1	82.5°	398.2	162.7	111.7	99.6	85.0	160.3	264.7	242.8	133.6	80.1
157.8	85°	128.7	53.4	41.3	31.6	38.9	99.6	157.8	165.1	94.7	41.3
24.3	87.5°	17.0	7.3	7.3	9.7	7.3	17.0	48.6	46.1	26.7	4.9
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>
5587.6
4927.1
3987.3
3084.0
2518.2
2311.8
2241.3
2161.2
2049.5
1906.2
1750.8
1600.3
1481.3
1401.1
1340.4
1345.3
1301.6
1202.0
1104.9
1022.3
966.5
927.6
854.8
794.1
709.1
614.4
519.7
463.8
412.8
325.4
238.0
187.0
123.8
80.1
31.6
0.0
0.0

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