

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: P385845

Luminaire Tested: **GWC-SA1B-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1B-830-U-T4W
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4816 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

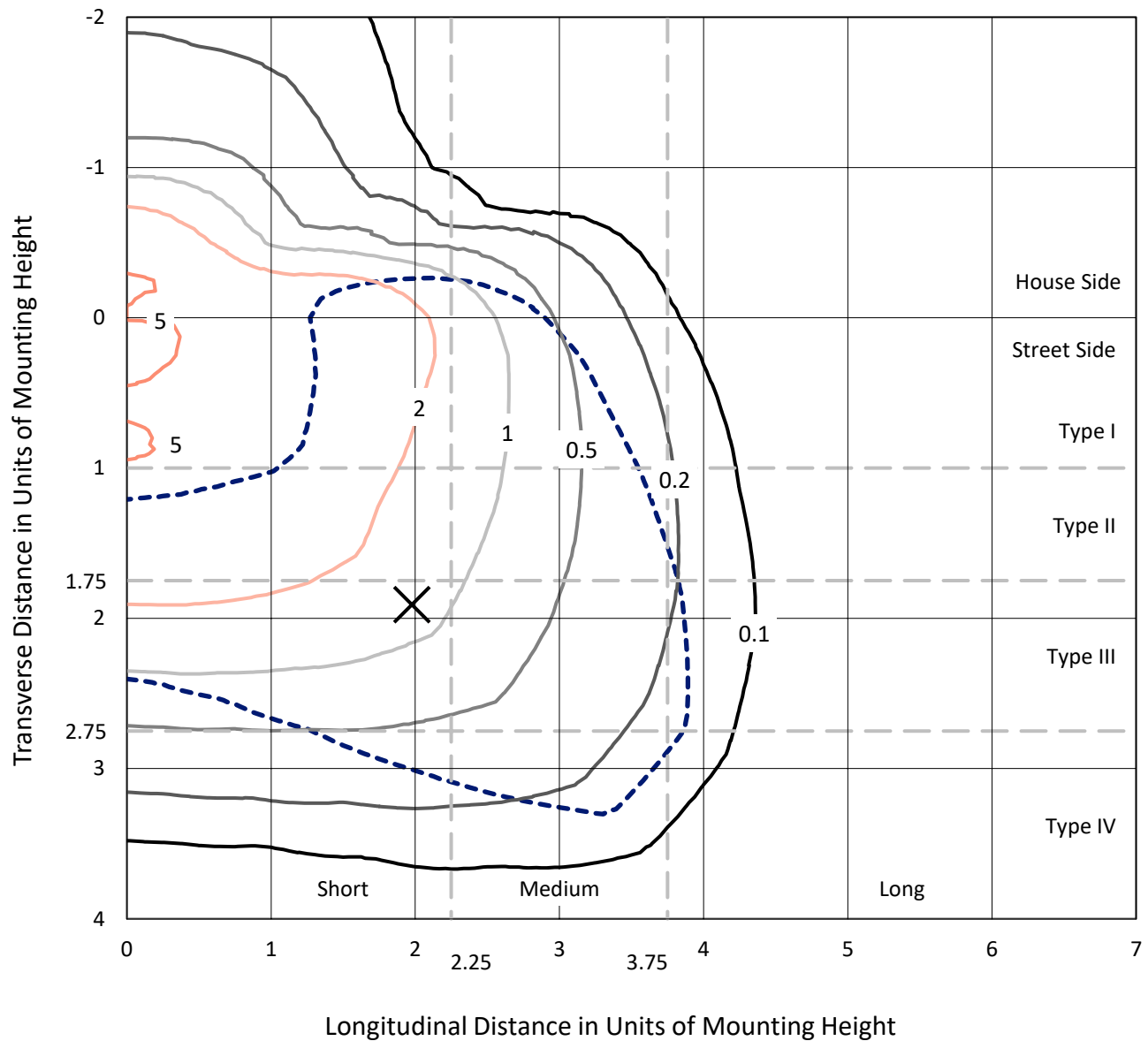


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

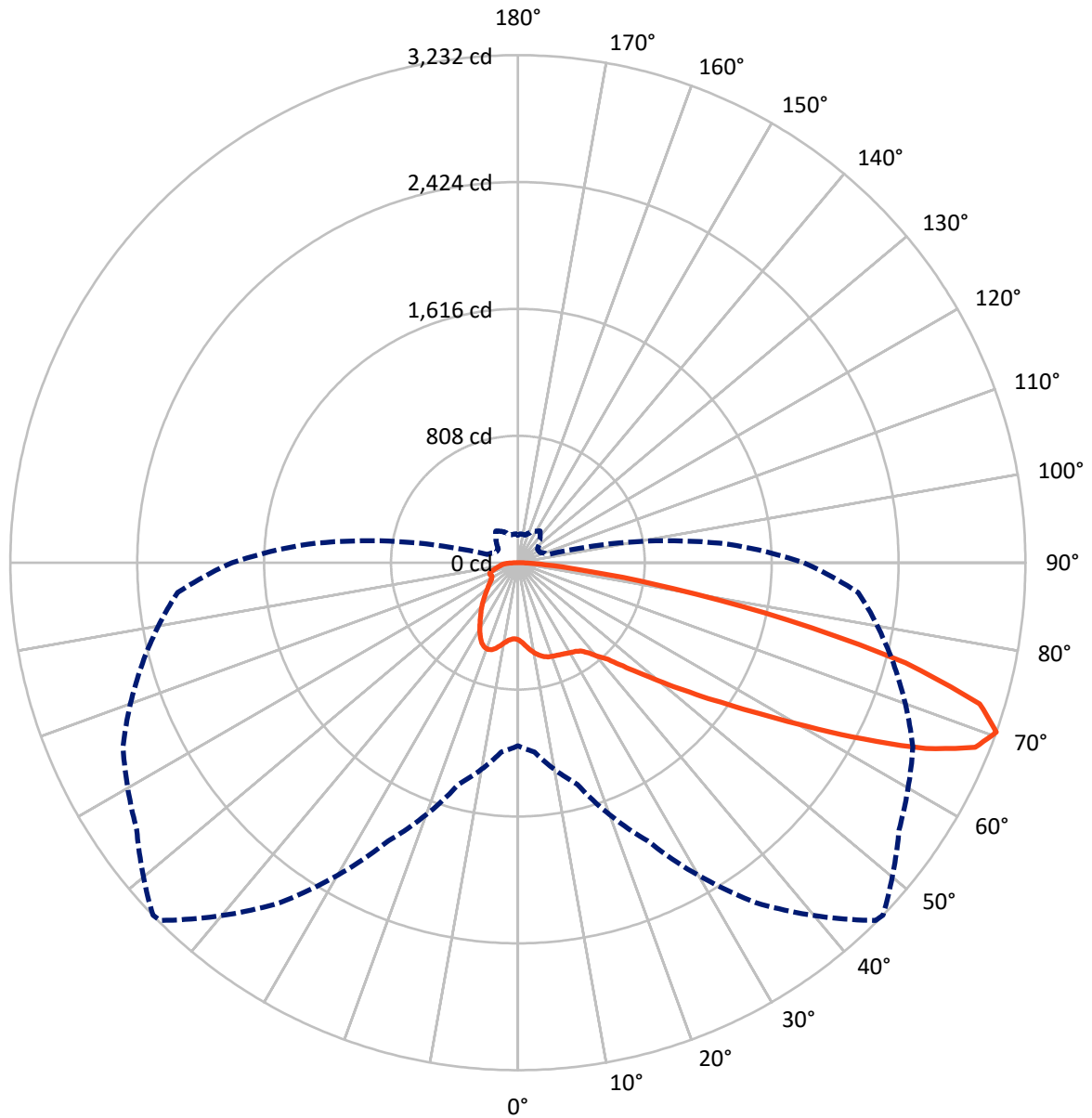


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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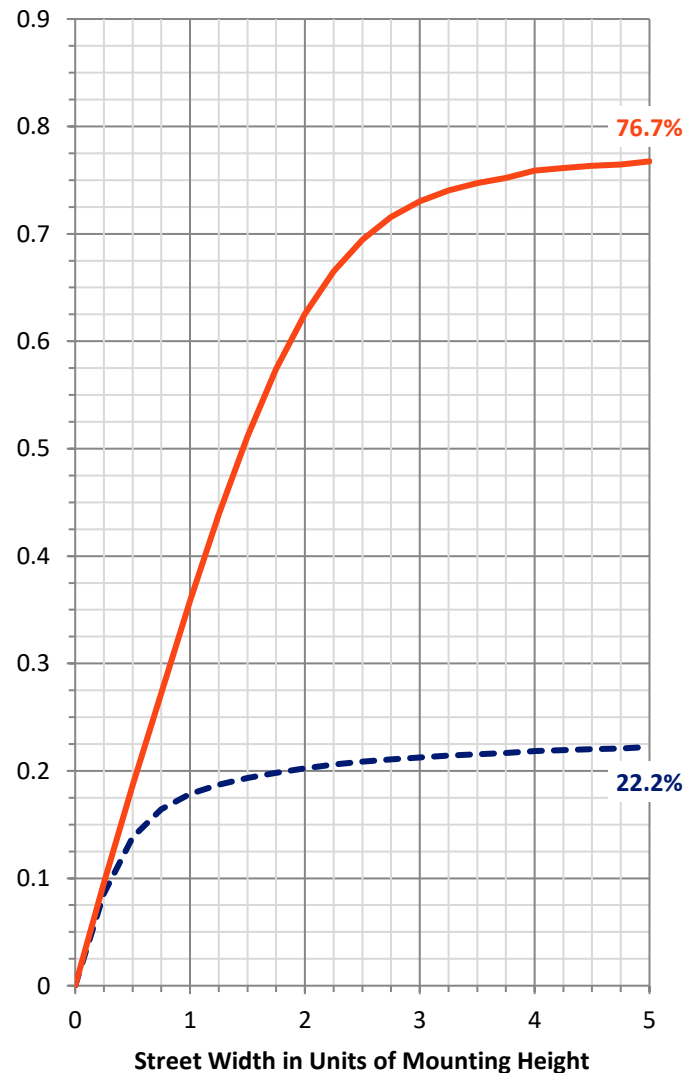
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1103.8	0.0	1103.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3712.2	0.0	3712.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	4816.0	0.0	4816.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.0
10°-20°	166.6	3.5
20°-30°	277.9	5.8
30°-40°	394.3	8.2
40°-50°	580.0	12.0
50°-60°	982.2	20.4
60°-70°	1394.3	29.0
70°-80°	847.0	17.6
80°-90°	123.6	2.6
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°	4816.0	100.0
0°-180°	4816.0	100.0



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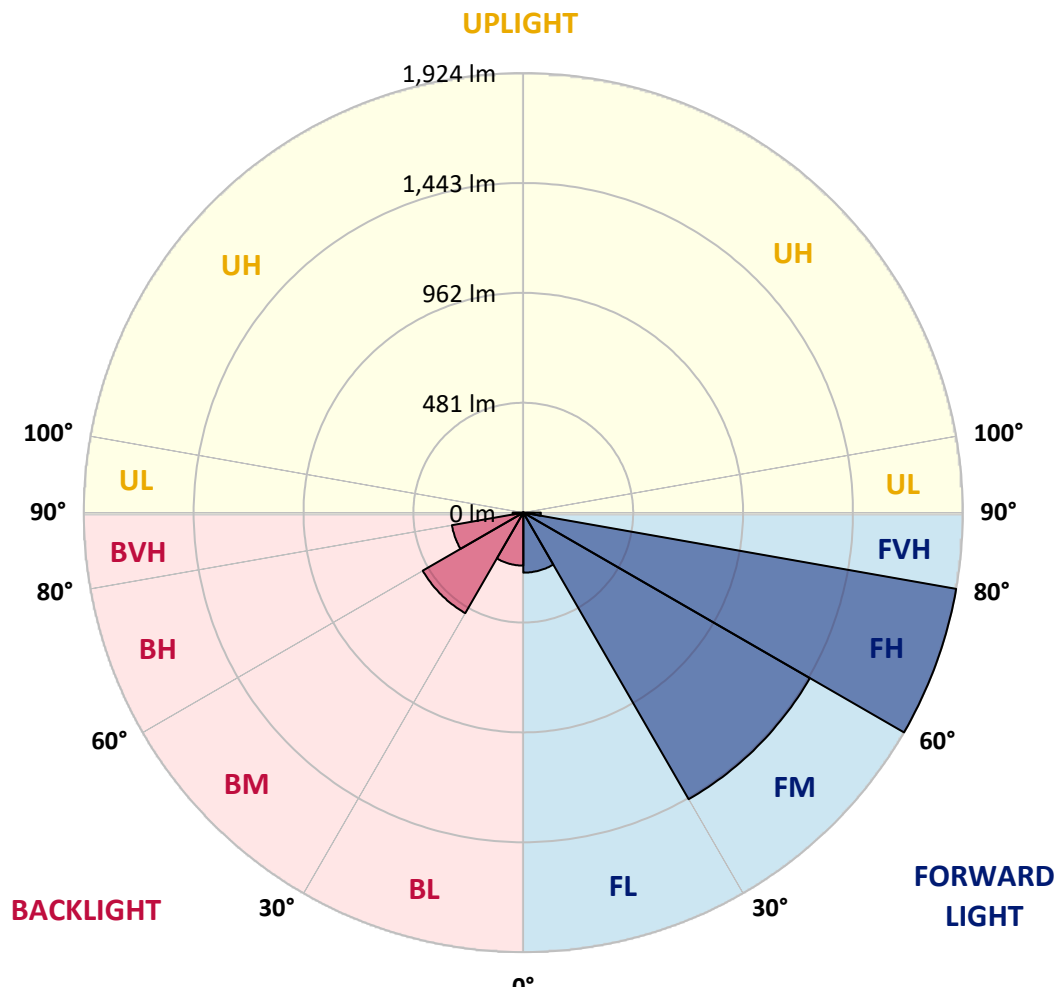
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.8	5.5			
FM	(30°-60°)	1448.4	30.1			
FH	(60°-80°)	1924.0	39.9			G2/5000
FVH	(80°-90°)	77.0	1.6			G1/100
BL	(0°-30°)	231.8	4.8	B1/500		
BM	(30°-60°)	508.1	10.6	B1/1000		
BH	(60°-80°)	317.3	6.6	B1/500		G1/500
BVH	(80°-90°)	46.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7
2.5°	515.2	515.5	516.2	514.6	509.9	508.6	508.1	503.3	500.2	495.6	491.6
5°	556.4	556.7	555.8	551.1	540.9	533.3	532.7	521.8	511.9	501.4	493.5
7.5°	599.4	599.9	596.8	588.1	573.7	560.5	559.7	544.9	529.9	513.9	502.0
10°	637.5	635.5	630.4	618.2	601.2	585.1	584.4	568.9	551.6	532.4	516.5
12.5°	662.9	661.2	654.6	639.8	621.2	606.4	605.0	590.7	573.9	552.8	533.8
15°	676.9	678.1	669.2	652.3	634.2	621.7	620.5	610.3	595.3	574.1	552.3
17.5°	678.7	679.7	671.1	654.5	639.6	631.1	630.6	623.8	612.9	592.5	569.8
20°	668.2	668.8	661.7	648.1	638.3	635.7	635.5	632.6	624.5	606.4	584.3
22.5°	652.8	653.3	648.2	638.3	635.0	639.2	640.3	639.2	633.4	616.4	595.6
25°	649.0	648.7	643.4	633.4	636.2	644.9	646.4	646.9	642.9	628.1	610.1
27.5°	667.3	666.2	656.1	640.0	641.8	652.3	654.3	659.1	656.6	643.6	626.6
30°	720.2	718.3	697.7	665.0	656.1	661.6	664.0	671.6	672.1	661.2	648.5
32.5°	809.6	807.1	770.2	711.8	680.4	671.0	673.3	684.6	690.7	682.3	668.7
35°	922.5	919.7	871.2	791.4	720.9	688.9	690.6	699.6	711.8	700.0	681.8
37.5°	1040.2	1033.4	986.8	885.1	785.3	727.3	727.3	728.5	734.3	709.5	697.3
40°	1157.2	1150.4	1108.2	995.2	868.7	787.8	784.0	758.5	753.9	732.6	728.5
42.5°	1265.9	1264.0	1239.1	1119.6	966.6	847.3	842.0	798.7	799.7	786.5	786.7
45°	1381.6	1381.6	1361.4	1245.2	1080.7	942.9	937.6	873.9	883.7	877.6	892.3
47.5°	1476.1	1479.1	1476.3	1376.0	1213.4	1064.4	1054.8	978.0	1005.7	1026.6	1069.3
50°	1572.5	1577.1	1577.6	1519.6	1373.7	1208.8	1197.9	1116.3	1178.1	1238.1	1322.0
52.5°	1712.4	1722.8	1681.4	1662.8	1570.2	1380.2	1369.5	1294.1	1397.3	1481.5	1626.1
55°	1842.1	1833.1	1803.6	1815.1	1780.5	1575.3	1567.2	1501.1	1641.6	1751.0	1938.7
57.5°	1912.4	1911.7	1941.4	1990.8	2007.3	1815.9	1809.2	1744.9	1917.0	1999.2	2232.3
60°	1994.8	1995.9	2069.4	2181.7	2249.6	2115.6	2112.6	2063.8	2184.5	2230.9	2462.5
62.5°	2006.3	2027.1	2153.6	2346.8	2476.4	2465.6	2472.2	2351.1	2423.8	2415.9	2634.4
65°	1873.6	1901.0	2130.1	2396.7	2701.8	2848.5	2854.6	2640.0	2612.5	2573.9	2695.9
67.5°	1601.7	1642.2	1891.1	2288.1	2776.2	3131.5	3140.1	2864.0	2769.1	2627.5	2547.9
70°	1165.6	1210.6	1461.1	1954.2	2643.6	3222.0	3231.7	2963.1	2775.0	2475.0	2175.1
72.5°	704.1	739.4	945.9	1438.7	2231.3	3057.2	3074.5	2837.5	2533.5	2096.5	1606.1
75°	309.2	332.3	457.4	829.0	1597.4	2529.4	2551.0	2428.7	2058.5	1523.6	949.3
77.5°	131.7	138.3	187.6	360.1	903.0	1728.4	1758.1	1774.6	1396.6	829.0	401.2
80°	82.1	84.7	106.1	163.0	422.6	970.8	1002.7	1044.1	693.5	304.7	140.1
82.5°	49.9	52.9	70.5	98.6	220.0	440.1	455.4	484.6	269.1	131.7	72.5
85°	30.0	32.1	43.2	62.3	125.3	173.1	172.9	191.2	126.7	84.7	38.2
87.5°	14.3	16.0	23.1	32.3	63.1	64.9	60.8	68.9	77.0	55.5	19.3
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7	490.7
2.5°	490.3	489.7	487.5	485.9	485.5	484.6	483.7	484.2	484.9	485.1	485.1
5°	490.2	488.3	485.5	484.4	485.9	487.9	490.3	493.6	495.6	497.1	498.1
7.5°	498.1	494.6	491.5	490.8	493.8	499.1	504.7	511.6	516.4	519.7	520.3
10°	511.3	507.0	503.8	504.5	509.8	517.4	525.3	534.2	541.4	545.9	546.2
12.5°	526.4	522.3	519.3	522.1	530.9	540.1	548.3	556.1	562.7	567.1	567.1
15°	543.9	540.9	537.5	543.9	555.8	564.0	567.5	571.3	574.9	578.2	577.5
17.5°	560.7	557.9	556.1	563.7	576.0	579.8	577.5	574.7	574.7	576.5	576.9
20°	575.2	572.7	573.9	581.3	587.7	583.8	575.2	566.3	562.7	563.7	564.7
22.5°	587.9	586.7	590.2	593.7	589.1	575.2	559.4	547.4	542.9	542.6	542.9
25°	602.7	602.6	606.9	600.6	580.2	554.6	533.3	521.6	519.2	521.1	524.4
27.5°	621.2	623.0	625.1	602.2	562.0	523.5	501.9	493.8	496.3	501.0	504.2
30°	644.8	649.7	645.1	598.1	536.0	487.9	467.3	464.9	471.7	478.5	481.8
32.5°	667.7	675.4	664.2	587.4	502.4	450.1	434.1	433.5	441.7	448.3	452.9
35°	686.1	701.5	678.5	566.1	463.5	415.3	403.6	399.2	402.2	409.9	415.2
37.5°	710.2	735.7	688.4	533.7	421.3	386.7	373.0	362.8	360.1	363.3	365.9
40°	754.2	788.0	693.0	488.3	380.1	358.0	344.1	329.1	318.8	311.2	311.3
42.5°	826.1	856.1	690.1	433.3	342.0	330.0	314.3	297.0	280.2	263.0	261.7
45°	942.7	957.2	681.2	375.0	308.5	300.6	286.0	268.6	246.2	226.8	225.0
47.5°	1129.5	1097.3	667.3	324.0	279.0	275.7	262.2	242.3	218.5	202.9	201.6
50°	1384.1	1299.6	660.6	283.5	253.0	254.0	242.9	221.8	199.4	187.9	186.6
52.5°	1688.7	1535.1	673.6	252.2	232.1	235.5	227.3	207.5	188.7	179.6	178.3
55°	2004.7	1779.0	687.6	229.4	212.3	219.0	216.2	199.9	182.9	174.5	173.4
57.5°	2275.1	1961.1	659.6	211.0	194.6	205.2	207.7	195.1	180.0	172.4	171.1
60°	2445.4	2034.5	586.1	193.7	180.6	194.2	202.7	193.8	181.1	180.5	179.5
62.5°	2526.1	2028.1	475.8	180.0	171.9	189.4	206.3	201.2	194.3	200.3	200.7
65°	2489.9	1931.1	354.4	170.9	165.6	191.2	217.2	215.2	198.1	204.0	204.9
67.5°	2251.2	1699.9	262.4	163.0	158.7	196.3	237.0	219.9	190.7	195.0	192.3
70°	1819.6	1347.7	202.4	154.1	151.6	195.6	245.9	217.1	182.6	183.6	176.5
72.5°	1254.7	919.0	164.7	145.9	141.4	178.3	239.6	210.1	175.9	168.3	158.9
75°	682.3	493.3	139.9	137.3	123.4	156.6	228.1	205.2	169.8	159.7	154.4
77.5°	268.5	204.7	121.5	125.6	108.0	138.3	215.2	195.8	161.4	148.2	145.5
80°	109.6	104.5	100.7	108.6	92.8	121.0	199.8	184.8	151.3	137.5	132.2
82.5°	62.1	64.9	78.3	85.7	75.3	111.4	192.3	175.9	139.3	123.1	116.9
85°	31.8	38.1	54.6	61.5	55.4	94.8	177.2	153.9	111.7	94.3	94.8
87.5°	15.3	21.3	34.4	38.6	35.9	68.6	132.3	111.6	87.0	68.9	66.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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