

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: EPHESUS

Report Number: P574732

Luminaire Tested: **EPH-VN-06-735-U-T3R**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P574732
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-735-U-T3R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

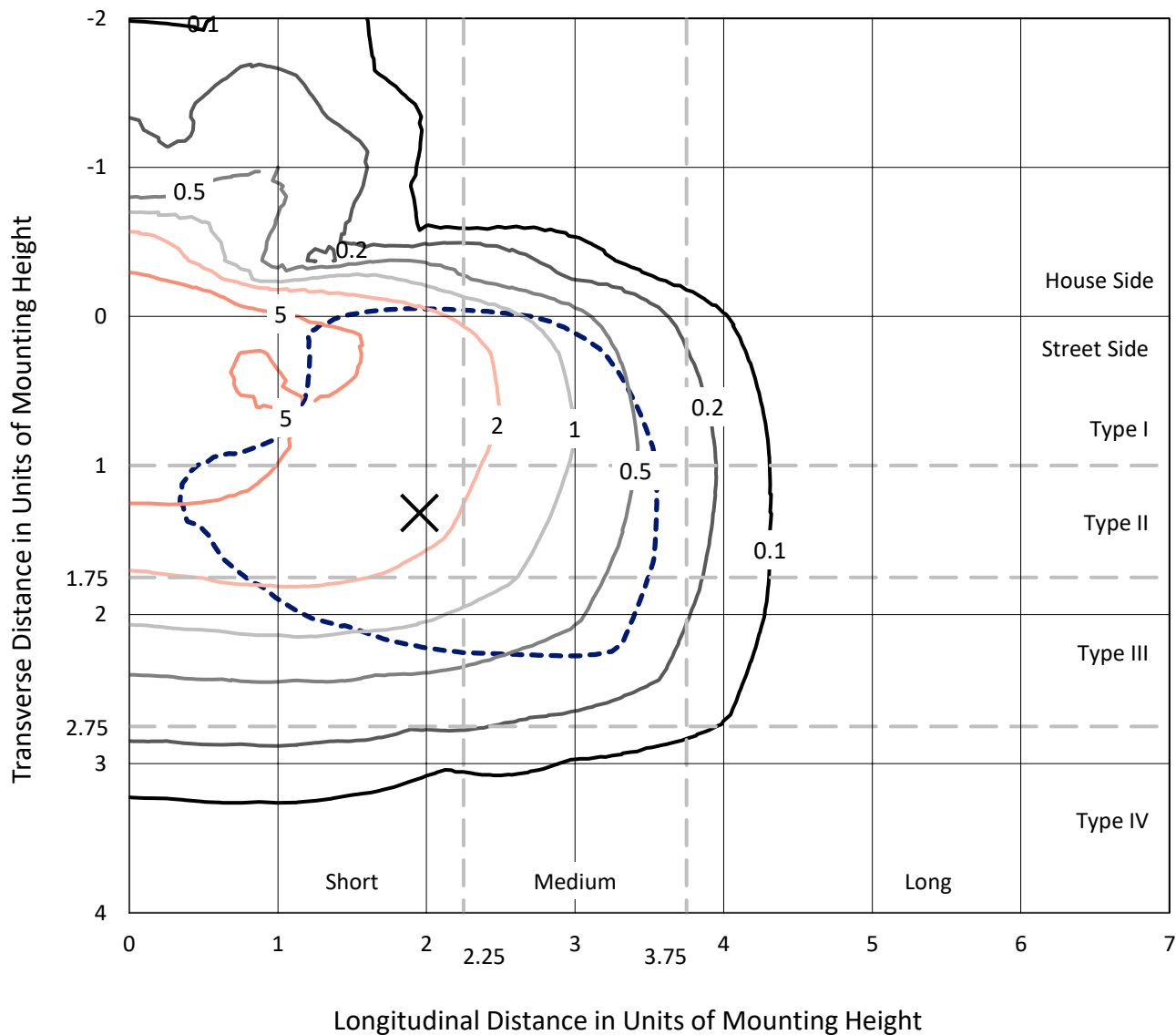
Lumens per Lamp: N/A
Luminaire Lumens: 51264.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
Input Voltage (V): 120
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

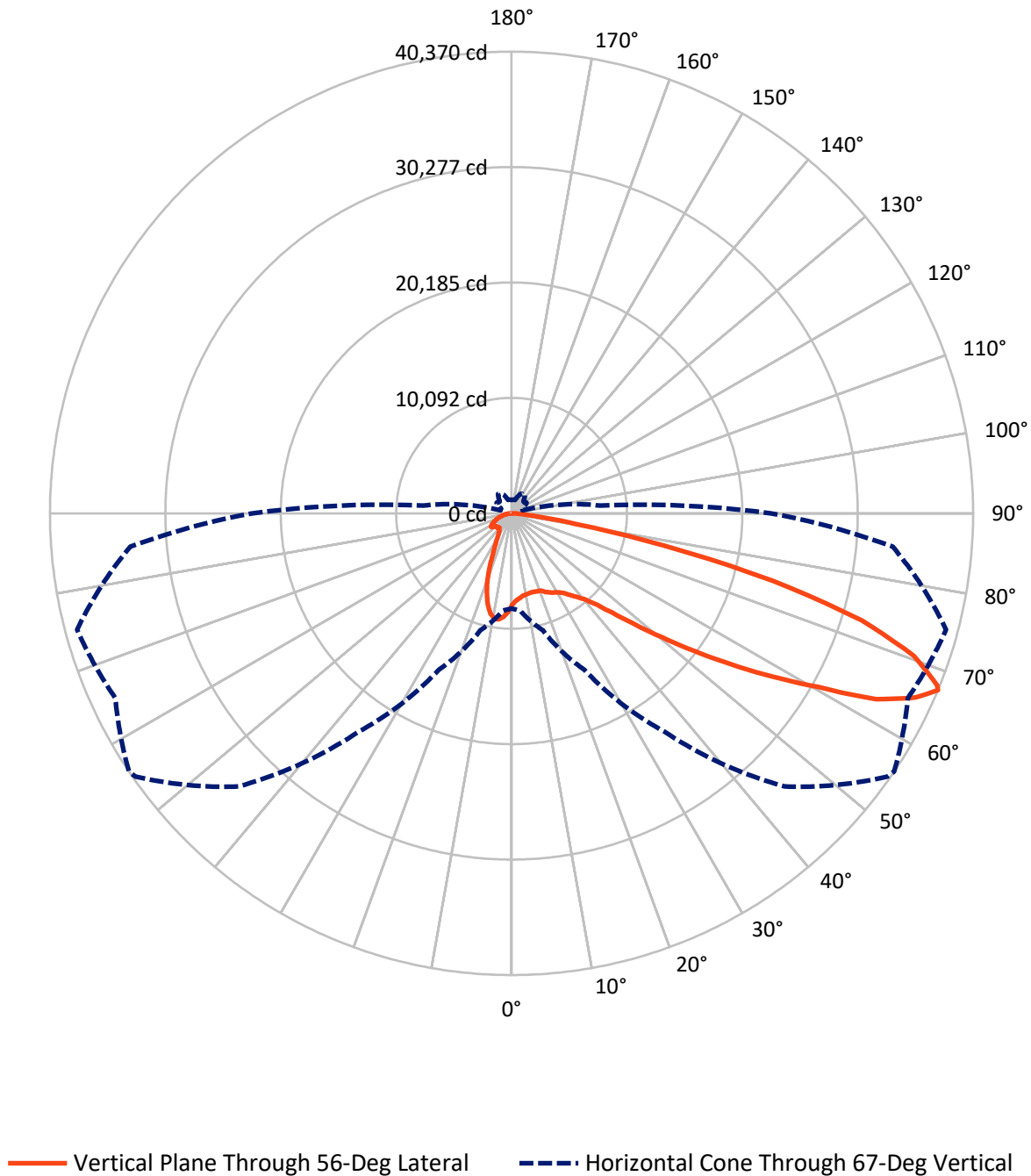
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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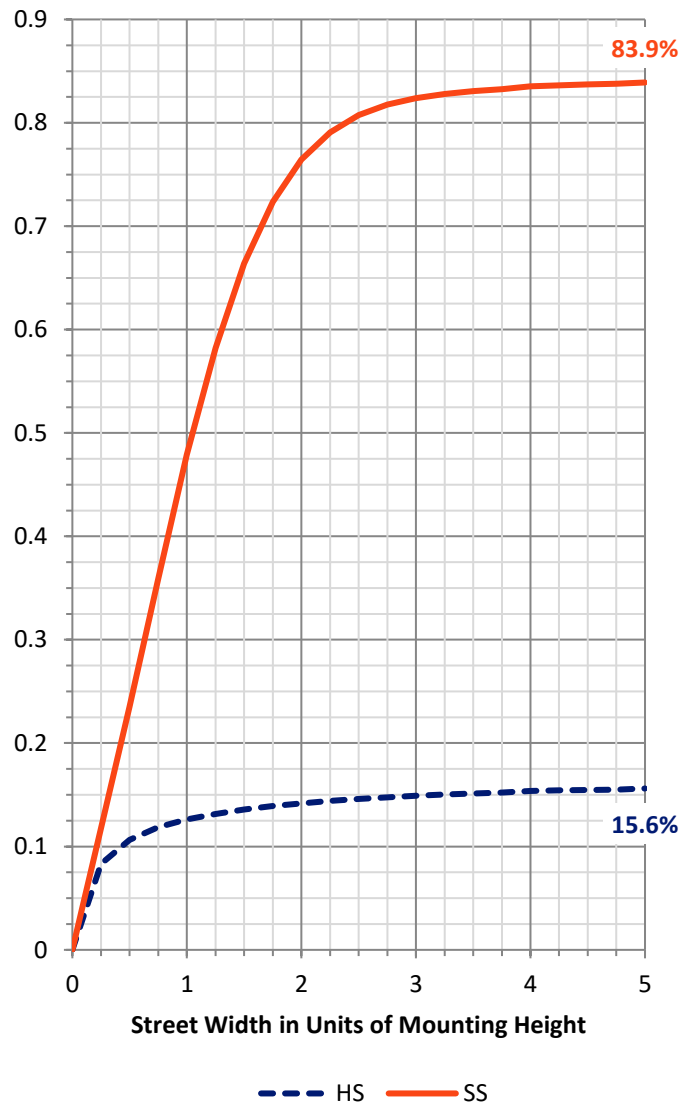
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8115.6	0.0	8115.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	43148.5	0.0	43148.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	51264.2	0.0	51264.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.4	1.5
10°-20°	2096.4	4.1
20°-30°	3287.8	6.4
30°-40°	4693.4	9.2
40°-50°	7083.6	13.8
50°-60°	11275.9	22.0
60°-70°	14415.4	28.1
70°-80°	7028.5	13.7
80°-90°	614.8	1.2
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°	51264.2	100.0
0°-180°	51264.2	100.0

Coefficient of Utilization



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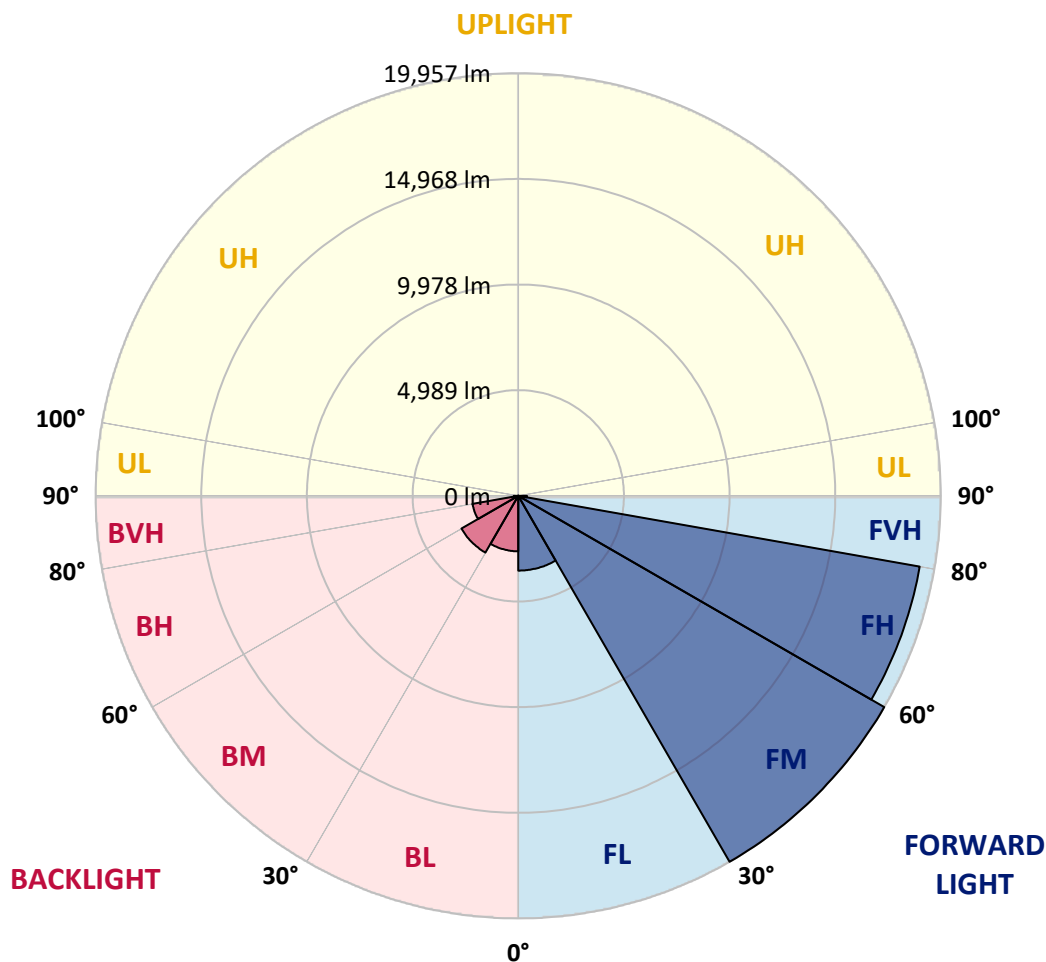
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3532.7	6.9			
FM	(30°-60°)	19956.7	38.9			
FH	(60°-80°)	19250.8	37.6			G5
FVH	(80°-90°)	408.3	0.8			G3/500
BL	(0°-30°)	2619.9	5.1	B4/5000		
BM	(30°-60°)	3096.2	6.0	B3/5000		
BH	(60°-80°)	2193.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	206.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6
2.5°	7327.4	7297.3	7333.4	7297.3	7459.6	7555.8	7585.9	7627.9	7778.2	7922.5
5°	7020.8	6888.6	7032.8	7080.9	7093.0	7255.3	7423.6	7453.6	7531.8	7766.2
7.5°	6509.9	6660.2	6606.1	6750.3	6900.6	7062.9	7339.4	7261.3	7549.8	7772.2
10°	6401.7	6413.7	6473.8	6527.9	6660.2	6870.5	7255.3	7207.2	7501.7	7976.6
12.5°	6509.9	6509.9	6491.9	6449.8	6600.1	6804.4	7111.0	7135.0	7597.9	8036.7
15°	6888.6	6960.7	6768.4	6798.4	6738.3	6804.4	7074.9	7129.0	7633.9	8084.8
17.5°	7814.3	7790.2	7561.8	7243.2	6978.7	6936.7	7123.0	7183.1	7597.9	8223.0
20°	8715.9	8667.8	8271.1	7940.5	7417.5	7171.1	7201.2	7207.2	7658.0	8313.2
22.5°	9719.8	9846.0	9413.2	8740.0	8090.8	7477.7	7357.4	7453.6	7796.2	8361.3
25°	11294.6	11024.1	10651.5	9767.8	8721.9	7952.5	7615.9	7664.0	7928.5	8481.5
27.5°	12430.7	12322.5	11739.4	11024.1	9605.5	8325.2	7754.2	7844.3	8168.9	8475.5
30°	13524.7	13524.7	13170.1	12100.1	10537.2	8950.3	8048.7	8006.6	8054.7	8463.5
32.5°	14805.0	14630.7	14119.8	13410.5	11709.4	9521.4	8283.1	8295.2	8295.2	8685.9
35°	15478.3	15760.8	15418.2	14264.1	12605.0	10471.1	8848.2	8758.0	8691.9	8932.3
37.5°	16464.1	16632.4	16271.7	15592.5	13717.1	11240.5	9347.1	9274.9	8890.2	9124.7
40°	17059.2	17029.1	17017.1	16704.5	15189.7	12148.2	10080.4	9894.1	9377.1	9803.9
42.5°	17395.8	17335.7	18075.0	17882.7	16578.3	13482.6	11000.1	10897.9	10326.9	11012.1
45°	17774.5	18219.3	18826.4	19367.4	18195.2	15358.1	12556.9	12412.7	11901.7	12773.3
47.5°	18105.1	18652.1	19427.5	20004.5	19655.9	17395.8	14480.4	14516.5	14179.9	15075.5
50°	18658.1	18712.2	19764.1	20930.2	21200.7	19277.2	17065.2	17005.1	16854.8	18111.1
52.5°	18489.8	18652.1	19980.5	21471.2	21916.0	21266.8	19842.2	20022.6	19824.2	21405.1
55°	15748.8	16235.7	19848.3	22042.3	23611.1	23515.0	23412.8	23292.5	23280.5	25107.9
57.5°	14504.5	14901.2	17485.9	22673.4	25426.4	26135.7	26796.9	26929.2	26923.2	29129.2
60°	13687.0	14095.7	16530.2	22330.8	26971.3	29568.0	30836.3	30854.4	30818.3	33427.1
62.5°	12088.1	12484.8	14877.2	20455.4	27398.0	32735.8	35561.0	35795.4	34142.4	37129.8
65°	10164.6	10489.2	12599.0	17588.1	26262.0	34749.5	39113.4	38836.9	36943.5	39245.7
67°	8313.2	8529.6	10585.3	15099.6	23292.5	33781.7	40141.3	40369.7	38235.8	39335.8
67.5°	7784.2	7982.6	9924.1	14252.0	22162.5	33048.4	40177.4	40141.3	38259.9	39353.9
70°	5403.9	5488.0	6762.4	9803.9	16325.8	27921.0	37244.0	37328.2	36655.0	37220.0
72.5°	3582.5	3708.8	4520.3	6179.3	9623.6	20317.1	31130.9	32032.5	31605.7	30517.7
75°	2308.2	2380.3	2957.4	3678.7	4736.7	11571.1	22998.0	23599.1	22619.3	18874.5
77.5°	1292.4	1370.5	1785.3	2236.1	2308.2	4814.8	12917.6	13663.0	11577.1	8018.6
80°	805.5	907.7	1346.5	1328.4	1100.0	1767.2	5325.7	5704.4	4628.5	2759.0
82.5°	607.1	685.3	1039.9	931.7	619.1	787.4	1995.6	2139.9	1695.1	1063.9
85°	414.8	523.0	751.4	577.1	324.6	378.7	793.4	853.6	775.4	516.9
87.5°	150.3	222.4	390.7	288.5	144.3	114.2	258.5	288.5	276.5	234.4
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°
7976.6	0°	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6	7976.6
8048.7	2.5°	8162.9	8247.1	8289.1	8535.6	8637.8	8619.7	8643.8	8679.9	8715.9	8764.0
8150.9	5°	8229.0	8487.5	8625.8	8914.3	9106.6	9022.5	9130.7	9100.6	9058.5	9052.5
8337.2	7.5°	8445.4	8776.0	9190.8	9268.9	9353.1	9142.7	8962.4	8715.9	8655.8	8445.4
8493.5	10°	8830.1	9100.6	9605.5	9635.6	9262.9	8721.9	8319.2	7808.3	7802.3	7495.7
8734.0	12.5°	9196.8	9503.4	9912.1	9737.8	8848.2	8108.8	7453.6	6894.6	6660.2	6503.9
8878.2	15°	9425.2	9930.1	10146.5	9395.2	8120.8	7123.0	6275.5	5674.4	5433.9	5319.7
9058.5	17.5°	9635.6	10338.9	10242.7	8794.1	7225.2	6107.2	5097.3	4574.4	4508.2	4424.1
9347.1	20°	9924.1	10489.2	9900.1	8012.6	6209.3	4796.8	4153.6	3901.1	3961.2	3997.3
9377.1	22.5°	10194.6	10567.3	9467.3	7159.1	4905.0	3798.9	3480.4	3534.5	3624.6	3744.8
9449.3	25°	10314.8	10693.5	8884.2	5980.9	3732.8	3197.8	3125.7	3215.9	3366.1	3372.2
9551.4	27.5°	10393.0	10603.4	8180.9	4832.8	2951.4	2795.1	2903.3	2969.4	2987.5	3059.6
9767.8	30°	10531.2	10417.0	7291.3	3456.3	2476.5	2482.5	2620.8	2620.8	2620.8	2674.9
9984.2	32.5°	10771.7	10290.8	6251.4	2524.6	2133.9	2326.2	2290.2	2278.2	2254.1	2188.0
10260.7	35°	10921.9	9948.2	4935.0	1869.4	1917.5	2133.9	2121.9	1935.5	1623.0	1466.7
10964.0	37.5°	11234.5	9773.9	3630.6	1442.6	1791.3	2037.7	1971.6	1520.8	1178.2	1027.9
11835.6	40°	11907.8	9659.6	2512.6	1262.3	1707.1	1989.6	1761.2	1298.4	901.6	637.2
13182.1	42.5°	12731.3	9665.7	1707.1	1190.2	1713.1	2091.8	1695.1	1112.0	637.2	510.9
14979.4	45°	13837.3	9575.5	1172.1	1190.2	1821.3	2260.1	1737.2	1009.8	619.1	649.2
17233.5	47.5°	15027.4	9653.6	871.6	1082.0	1839.4	2266.1	1586.9	991.8	595.1	751.4
19686.0	50°	16416.0	9731.8	721.3	997.8	1845.4	2194.0	1460.7	967.8	619.1	793.4
22499.1	52.5°	17846.6	9978.2	613.1	943.7	1917.5	2164.0	1460.7	1003.8	619.1	691.3
26081.6	55°	19980.5	10609.4	883.6	1178.2	2182.0	2362.3	1797.3	1406.6	865.6	889.6
29513.9	57.5°	22336.8	11258.6	985.8	1238.3	2242.1	2127.9	1935.5	1550.8	913.7	919.7
32182.8	60°	23887.6	11282.6	979.8	1208.2	2097.8	1839.4	1893.5	1635.0	931.7	787.4
33835.8	62.5°	24506.8	10549.3	1021.9	1208.2	1953.6	1719.1	1941.5	1761.2	961.8	985.8
34304.7	65°	23803.5	9034.5	985.8	1082.0	1719.1	1538.8	1953.6	1785.3	1051.9	991.8
33463.1	67°	22703.5	7784.2	1003.8	1027.9	1598.9	1460.7	2055.8	1875.4	1220.2	1190.2
33024.3	67.5°	22390.9	7453.6	997.8	997.8	1556.8	1436.6	2079.8	1875.4	1244.3	1232.3
29147.2	70°	19734.0	6041.0	1021.9	985.8	1376.5	1364.5	2212.0	1977.6	1430.6	1442.6
21411.1	72.5°	15021.4	4580.4	1015.9	985.8	1196.2	1304.4	2230.1	2043.7	1556.8	1442.6
11991.9	75°	8535.6	2741.0	895.6	859.6	943.7	1136.1	2085.8	1947.6	1514.8	1292.4
4790.8	77.5°	3528.4	1412.6	823.5	775.4	781.4	925.7	1737.2	1815.3	1442.6	1100.0
1598.9	80°	1316.4	847.5	661.2	619.1	601.1	679.2	1238.3	1448.6	1232.3	901.6
703.3	82.5°	685.3	529.0	450.8	450.8	408.7	432.8	667.2	961.8	931.7	619.1
282.5	85°	348.6	300.5	258.5	252.5	228.4	204.4	336.6	571.0	535.0	342.6
126.2	87.5°	186.3	168.3	108.2	102.2	84.2	54.1	60.1	114.2	186.3	150.3
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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180°
7976.6
8812.1
9106.6
8517.6
7483.7
6467.8
5295.7
4466.2
3955.2
3678.7
3432.3
3125.7
2735.0
2151.9
1538.8
1021.9
619.1
498.9
661.2
835.5
919.7
709.3
937.7
889.6
811.5
997.8
973.8
1172.1
1208.2
1334.4
1280.3
1154.1
1039.9
823.5
486.9
282.5
108.2
0.0