

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: STREETWORKS

Report Number: P321296

Luminaire Tested: **GAN-SA2D-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12815 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

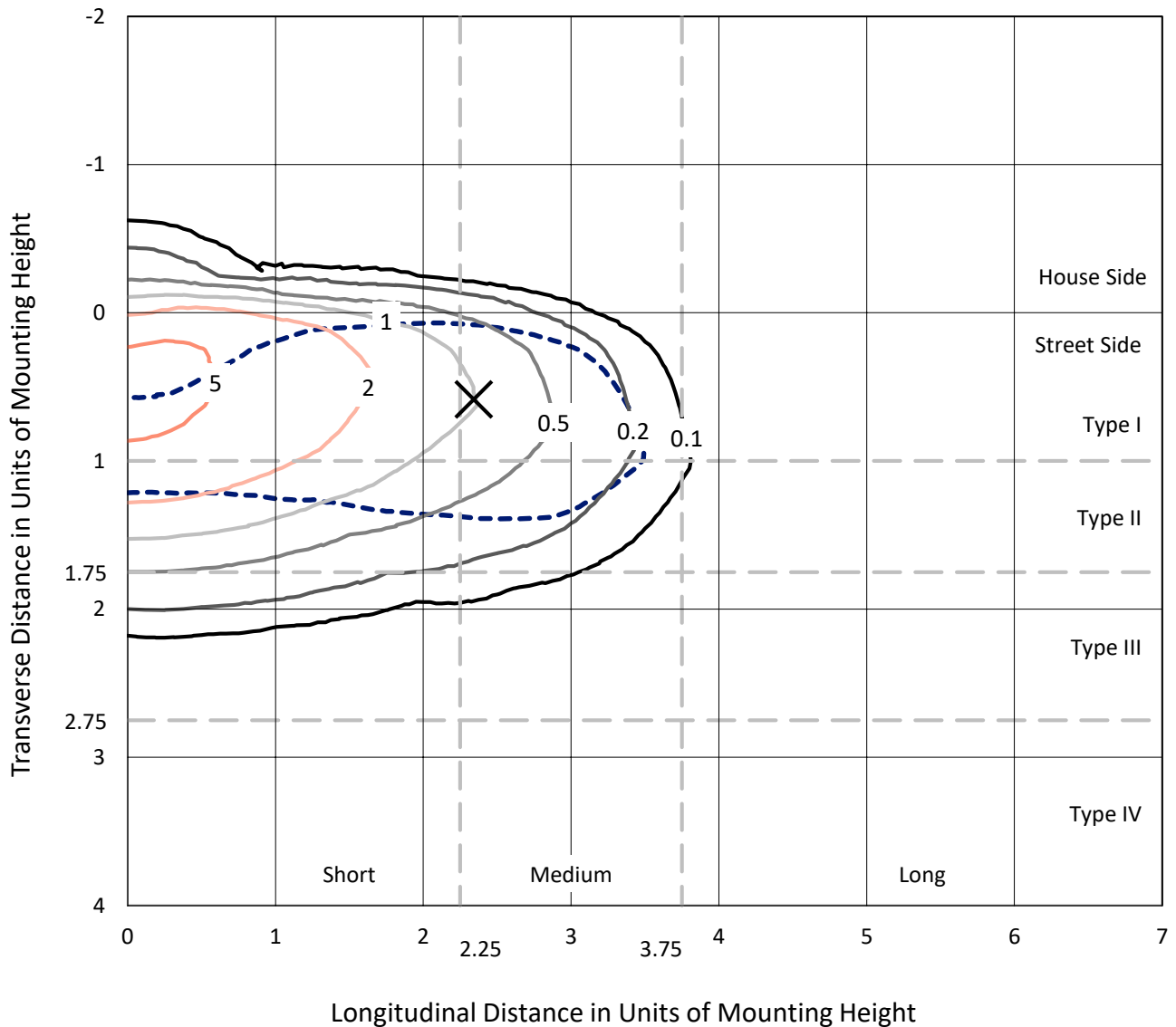




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Iso-Footcandle Lines of Horizontal Illumination

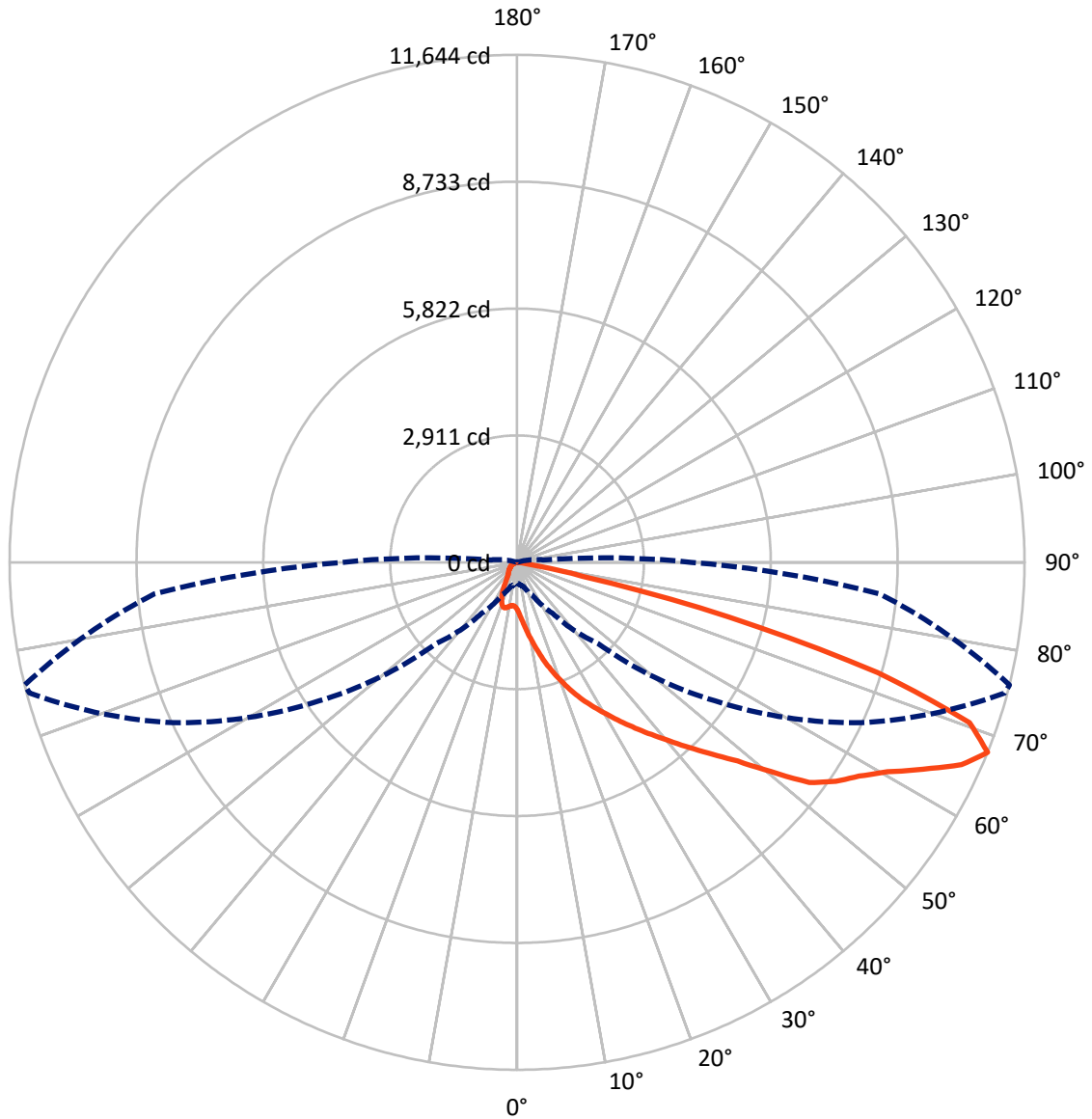
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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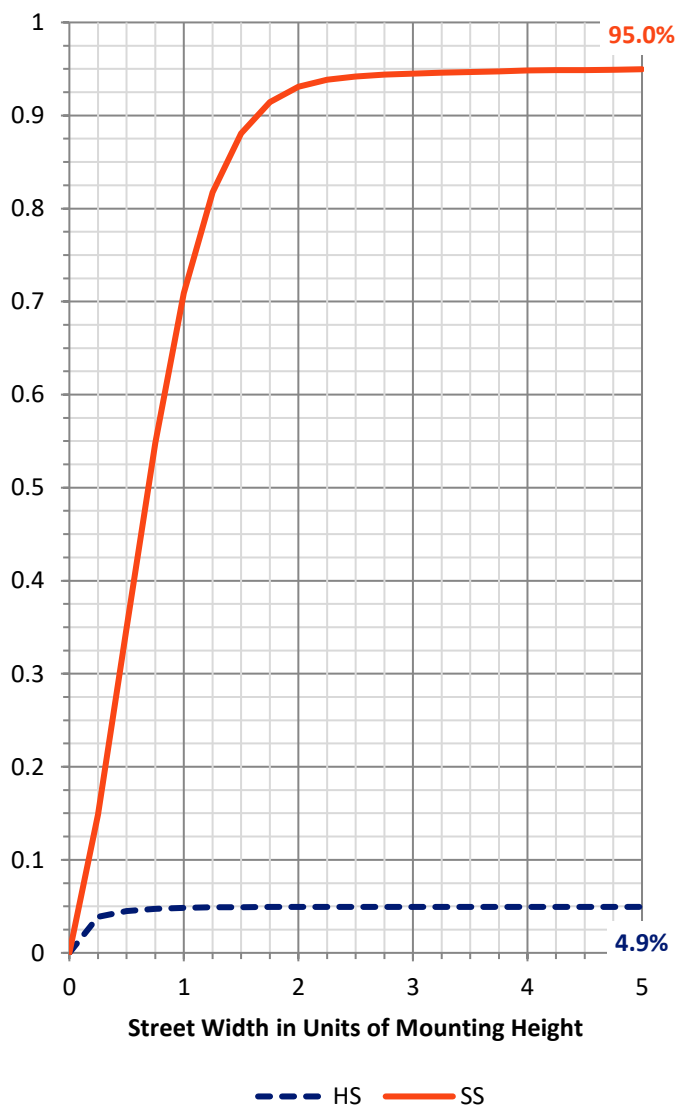
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.4	0.0	636.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12178.6	0.0	12178.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	12815.0	0.0	12815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.1
10°-20°	535.9	4.2
20°-30°	1090.3	8.5
30°-40°	1892.4	14.8
40°-50°	2673.7	20.9
50°-60°	3032.1	23.7
60°-70°	2514.9	19.6
70°-80°	911.0	7.1
80°-90°	29.5	0.2
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°	12815.0	100.0
0°-180°	12815.0	100.0

Coefficient of Utilization

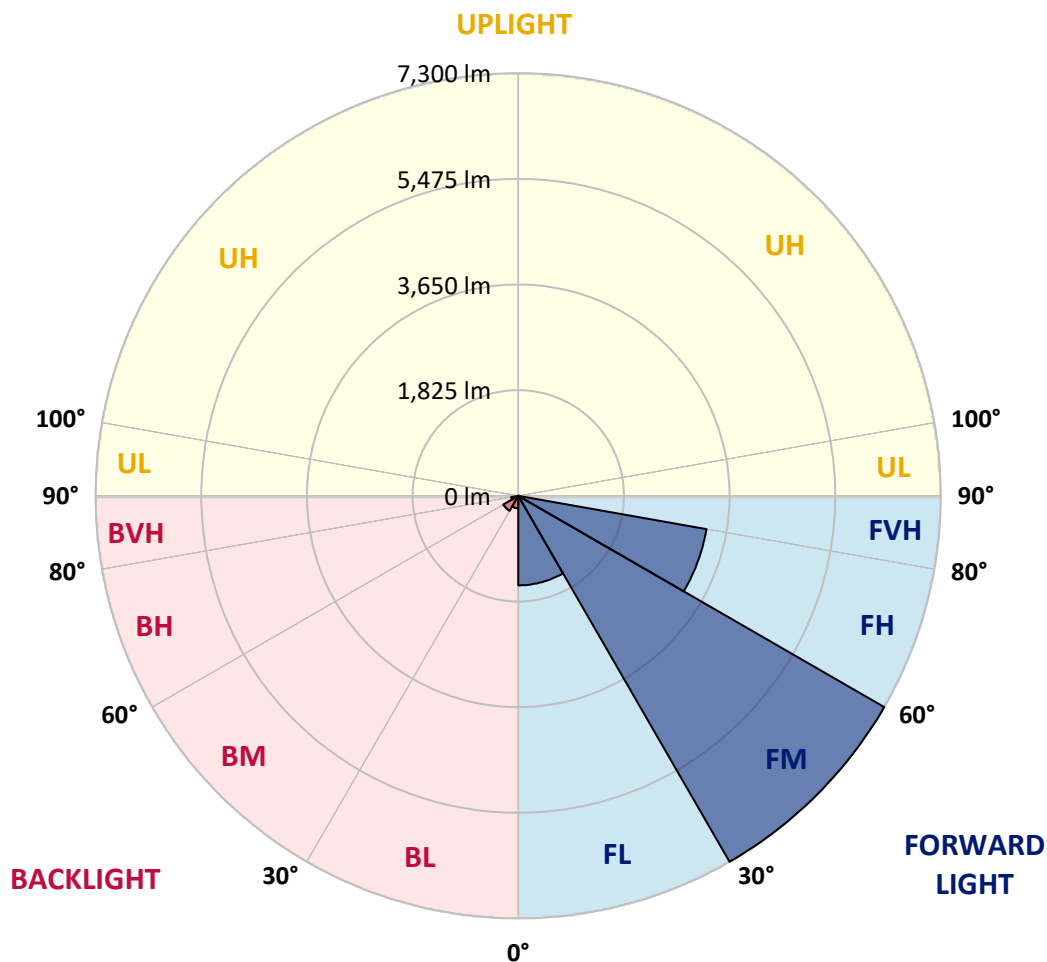


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.7	12.1			
FM (30°-60°)	7300.4	57.0			
FH (60°-80°)	3302.9	25.8			G2/5000
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	214.6	1.7	B1/500		
BM (30°-60°)	297.8	2.3	B1/1000		
BH (60°-80°)	123.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1622.8	1586.3	1594.7	1571.1	1528.4	1440.8	1366.2	1295.4	1212.9	1210.1	1142.1
5°	2188.2	2157.3	2153.4	2105.7	2028.2	1879.4	1734.5	1569.4	1385.2	1371.8	1227.5
7.5°	2701.4	2676.7	2667.7	2611.0	2466.7	2321.8	2133.2	1890.6	1602.5	1577.8	1342.6
10°	3095.6	3083.8	3086.1	3045.6	2922.1	2787.3	2539.7	2230.3	1849.1	1810.9	1480.7
12.5°	3394.3	3397.1	3417.3	3392.6	3323.6	3223.6	2959.2	2592.5	2121.9	2069.7	1638.5
15°	3613.9	3627.9	3665.0	3695.9	3690.8	3604.3	3361.8	2960.3	2411.7	2353.8	1814.2
17.5°	3755.9	3771.7	3825.6	3894.1	3957.0	3936.7	3750.3	3315.2	2704.8	2638.0	2002.3
20°	3880.6	3899.1	3957.0	4047.4	4164.7	4190.0	4067.6	3659.4	2997.3	2915.9	2196.6
22.5°	4150.7	4150.1	4185.5	4238.3	4350.0	4415.2	4337.7	3978.9	3286.5	3201.7	2394.8
25°	4639.2	4620.7	4608.3	4566.8	4591.5	4631.9	4588.7	4277.6	3577.4	3491.5	2595.9
27.5°	5219.8	5231.0	5131.1	5019.3	4932.9	4891.3	4820.6	4554.4	3857.0	3762.7	2792.4
30°	5832.4	5835.8	5717.9	5575.2	5384.9	5227.1	5104.7	4818.9	4144.5	4041.7	2983.3
32.5°	6384.9	6363.0	6246.2	6052.0	5811.6	5634.2	5379.8	5114.2	4448.8	4349.5	3195.6
35°	6822.9	6797.1	6655.0	6478.1	6228.8	6050.3	5744.2	5409.0	4768.9	4671.8	3408.4
37.5°	7143.0	7112.6	6966.7	6784.7	6569.7	6465.8	6167.1	5729.6	5118.2	5013.7	3632.4
40°	7254.1	7227.8	7136.2	7003.2	6830.2	6806.6	6615.7	6098.6	5498.3	5387.1	3886.2
42.5°	7187.9	7162.1	7129.5	7084.6	7012.7	7035.2	7039.1	6519.1	5920.6	5811.1	4166.4
45°	6925.1	6902.1	6935.8	7001.5	7090.7	7201.9	7425.4	6971.1	6392.2	6275.4	4490.4
47.5°	6538.2	6521.4	6614.6	6778.5	7039.6	7346.2	7778.6	7446.2	6921.7	6813.4	4894.7
50°	5987.9	5985.1	6171.6	6470.8	6872.3	7415.9	8143.6	7986.4	7657.3	7543.3	5456.8
52.5°	5131.1	5136.7	5503.4	5982.3	6578.6	7368.7	8378.3	8680.4	8513.1	8394.6	5943.6
55°	4315.2	4348.9	4608.9	5299.5	6128.3	7193.5	8459.1	9004.4	8985.3	8873.0	6214.2
57.5°	3516.2	3577.4	3827.8	4473.0	5470.8	6789.8	8414.8	9144.8	9336.8	9250.9	6571.4
60°	2650.3	2678.4	2967.0	3570.1	4626.8	6053.1	8093.0	9221.1	9817.4	9757.9	7089.6
62.5°	1686.2	1756.4	2012.5	2594.2	3602.6	5030.0	7550.6	9220.0	10418.8	10451.4	7758.4
65°	888.3	970.3	1106.2	1607.6	2475.7	3887.3	6734.7	9133.5	11156.6	11202.1	8281.1
67.5°	479.0	502.6	574.4	834.4	1435.8	2633.5	5535.9	8706.8	11583.9	11644.0	8354.1
70°	350.4	363.3	390.2	461.6	722.7	1529.6	4039.5	7739.3	11033.1	11010.6	7422.6
72.5°	269.0	289.2	309.4	338.0	415.5	816.4	2515.0	6060.4	8803.4	8655.1	5548.3
75°	212.3	215.6	244.3	270.1	311.6	464.9	1116.8	3529.7	5373.1	5022.1	2877.2
77.5°	169.6	171.8	188.7	211.1	250.4	305.5	345.9	1388.6	1715.4	1530.7	624.4
80°	100.5	106.1	140.4	162.8	207.8	192.6	126.3	301.5	267.8	242.6	105.0
82.5°	56.2	60.6	79.2	128.6	144.9	92.1	62.9	81.4	62.9	61.2	29.8
85°	0.0	2.8	51.1	79.7	59.0	20.2	26.4	27.0	18.5	17.4	11.8
87.5°	0.0	0.0	15.7	15.2	2.2	3.4	6.2	9.0	7.3	7.3	6.2
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°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1108.4	1078.1	1020.8	964.7	917.5	878.8	843.9	829.9	818.7	817.0	808.0
5°	1157.8	1096.6	987.1	897.3	837.2	794.5	758.0	735.6	718.2	711.4	705.3
7.5°	1232.5	1139.9	982.6	879.3	807.5	735.6	668.2	595.2	549.7	532.3	522.2
10°	1323.5	1197.1	999.5	874.3	748.5	596.9	485.1	392.5	354.9	342.5	339.2
12.5°	1429.6	1268.5	1028.7	842.8	622.7	423.9	334.7	303.2	294.8	290.9	290.9
15°	1551.5	1346.5	1049.5	751.9	460.4	320.6	289.7	275.1	266.2	261.1	261.7
17.5°	1676.1	1422.9	1039.4	619.9	339.7	285.2	262.2	246.5	234.1	229.1	228.0
20°	1801.9	1493.6	983.2	461.6	287.5	258.9	233.0	215.6	203.3	198.2	197.1
22.5°	1932.2	1553.7	884.4	338.6	258.3	229.7	204.4	187.0	175.2	170.7	168.5
25°	2059.1	1602.5	746.2	274.0	230.8	202.1	178.0	161.7	151.0	146.6	146.0
27.5°	2177.5	1633.4	586.2	242.0	206.6	177.4	155.5	140.9	132.0	128.6	128.0
30°	2284.2	1636.2	433.5	218.4	185.3	156.1	135.9	123.0	115.1	111.7	110.6
32.5°	2392.0	1612.7	315.6	197.1	165.6	137.6	117.9	107.8	102.2	99.4	99.4
35°	2493.7	1558.2	245.9	178.6	146.6	119.6	103.9	96.6	93.2	90.4	90.4
37.5°	2593.1	1480.1	208.9	162.3	128.6	104.4	91.5	87.0	84.2	81.4	81.4
40°	2694.1	1381.9	189.8	147.1	114.0	92.6	81.4	77.5	74.7	72.4	71.9
42.5°	2818.2	1268.5	177.4	133.1	101.1	82.0	71.9	67.4	65.1	62.9	61.8
45°	2962.0	1170.7	167.3	119.0	90.4	73.0	62.3	57.8	54.5	51.7	51.1
47.5°	3169.2	1100.0	153.9	103.9	80.3	63.5	53.9	48.9	43.8	41.0	40.4
50°	3433.6	1041.6	136.4	90.4	70.2	53.9	44.9	38.7	34.3	31.4	31.4
52.5°	3565.0	965.2	120.7	78.6	59.0	45.5	36.5	29.2	27.0	24.1	24.1
55°	3617.8	906.8	105.0	66.8	48.9	37.6	28.6	22.5	20.8	19.1	18.5
57.5°	3766.0	890.0	91.5	56.7	40.4	29.8	21.9	16.8	15.7	13.5	13.5
60°	4004.7	898.4	79.2	48.3	32.6	23.0	16.3	12.9	11.8	9.5	9.5
62.5°	4262.4	887.7	66.8	41.6	25.3	16.8	11.2	9.5	9.5	5.6	5.1
65°	4311.8	790.6	57.3	34.3	19.7	12.4	7.3	6.2	8.4	1.1	0.0
67.5°	4001.9	613.2	49.4	26.4	14.6	9.5	5.6	2.8	7.3	0.0	0.0
70°	3200.0	389.7	39.9	19.1	11.2	7.9	4.5	1.1	5.6	0.0	0.0
72.5°	2262.9	226.3	31.4	13.5	9.5	6.2	3.4	0.0	3.4	0.0	0.0
75°	1144.4	120.7	19.7	10.1	7.3	4.5	2.2	0.0	0.6	0.0	0.0
77.5°	247.6	56.2	12.4	7.3	5.1	2.8	1.1	0.0	0.0	0.0	0.0
80°	53.9	24.7	7.9	4.5	2.8	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.7	12.9	3.9	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	6.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.2	0.6	0.6	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	0.0

(END OF REPORT)