

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: P319952

Luminaire Tested: **GAN-SA8A-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32320 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

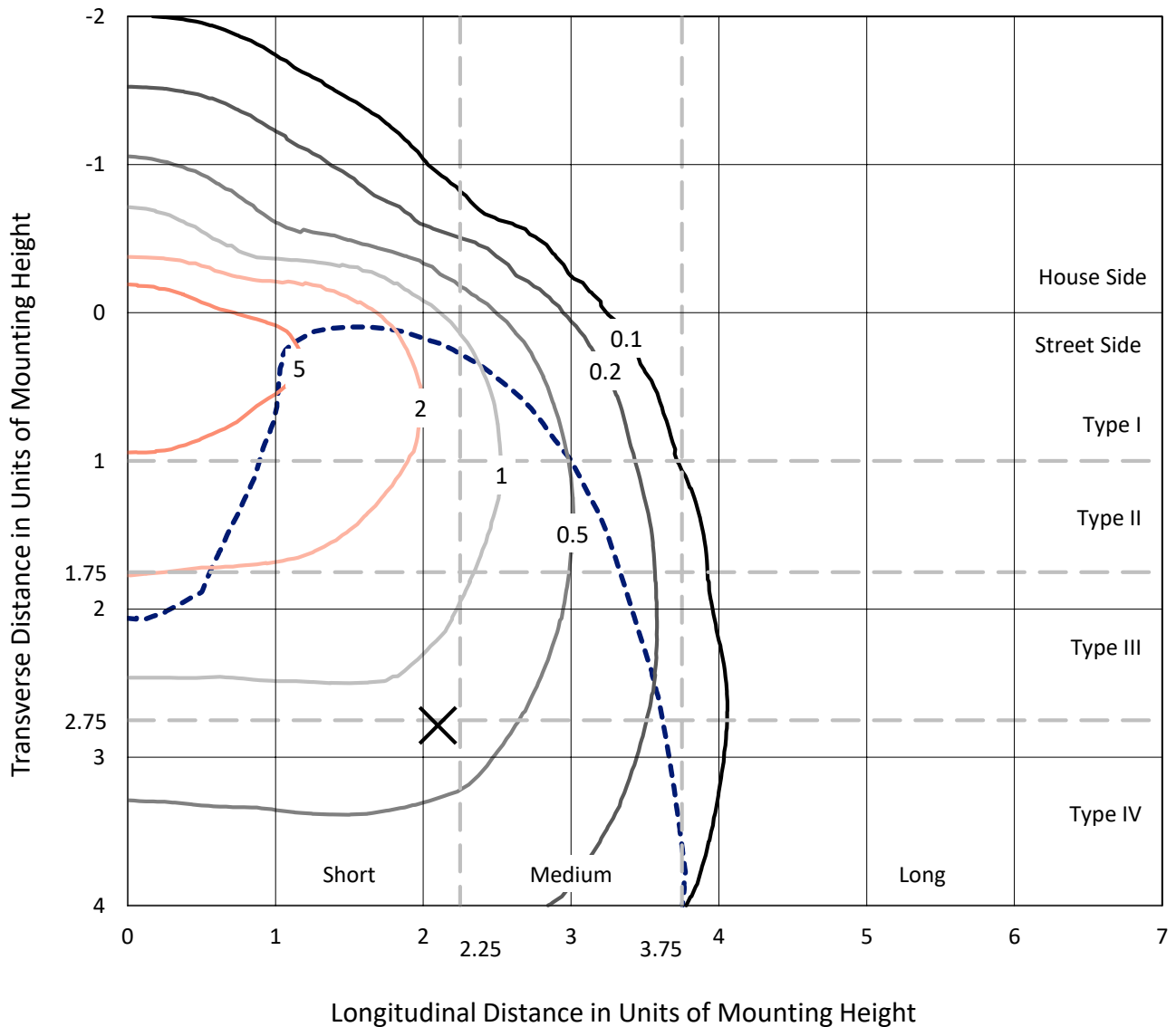
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

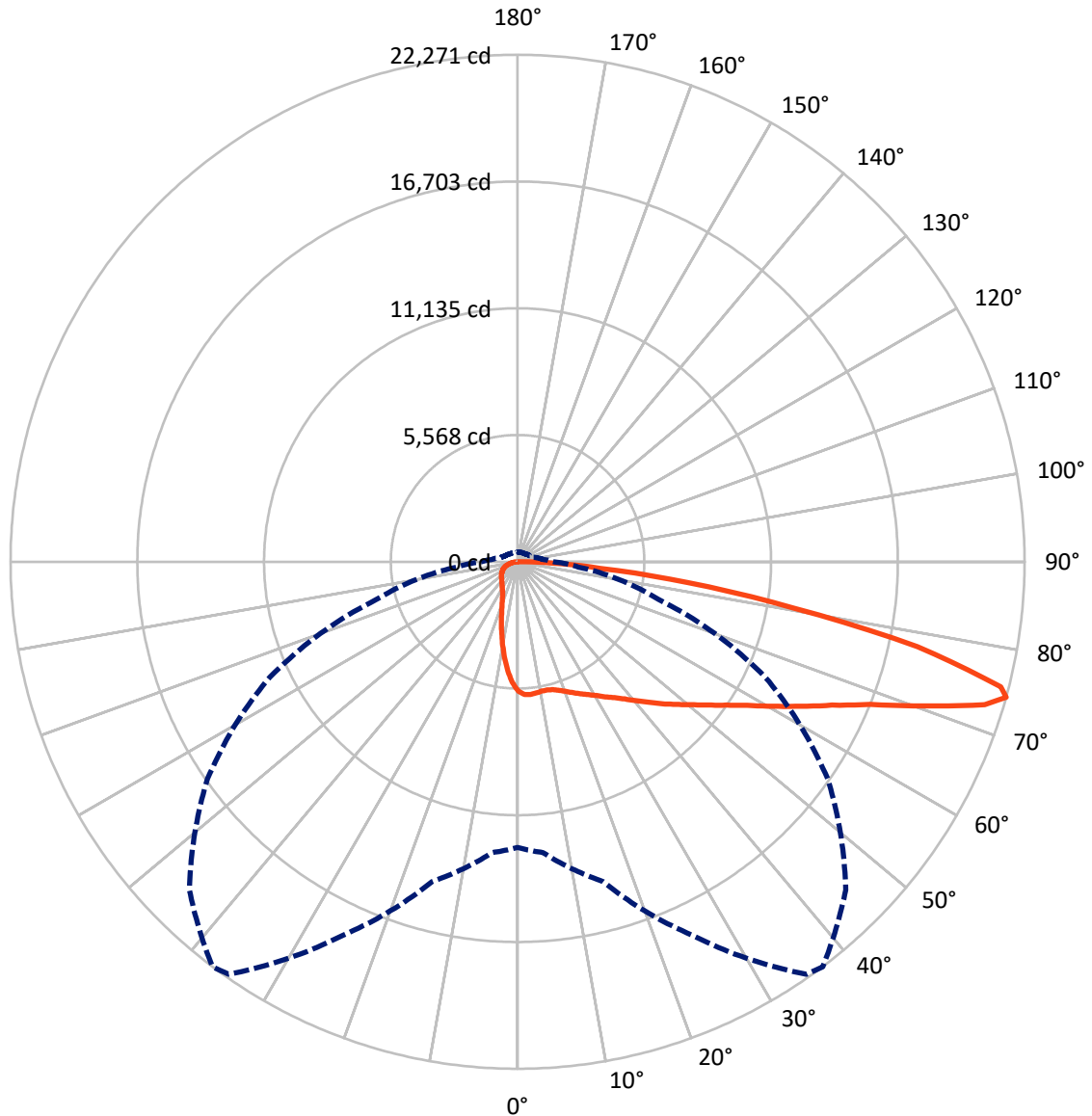
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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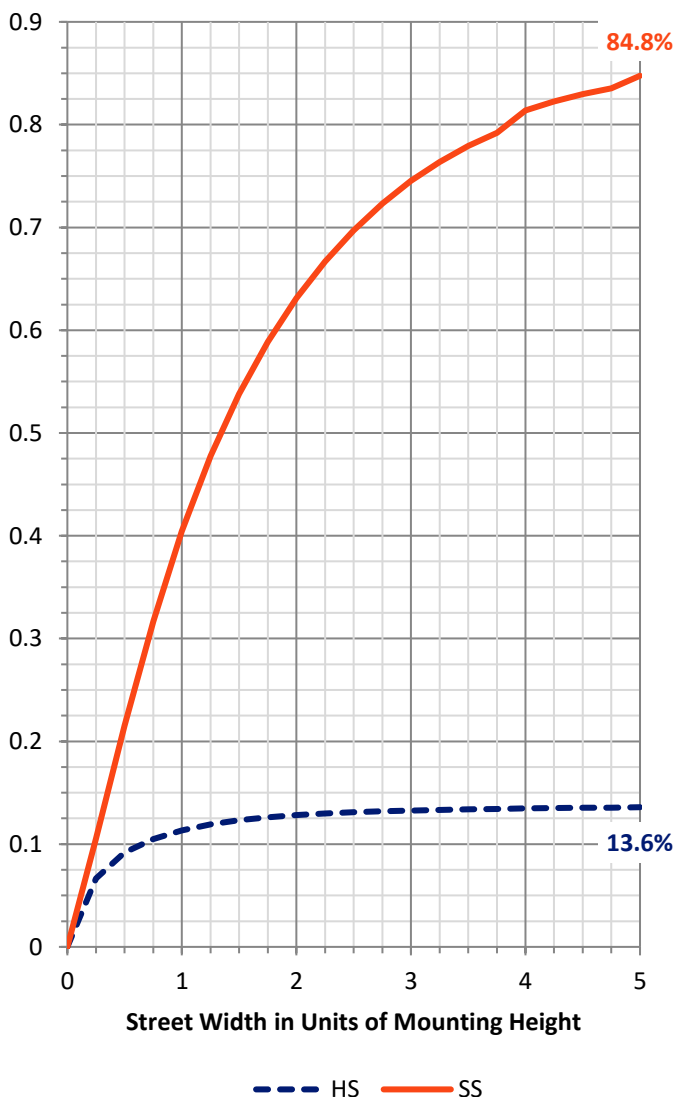
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4447.0	0.0	4447.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	27873.0	0.0	27873.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	32320.0	0.0	32320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.5	1.6
10°-20°	1285.4	4.0
20°-30°	1980.6	6.1
30°-40°	2880.1	8.9
40°-50°	4239.0	13.1
50°-60°	5952.9	18.4
60°-70°	7534.5	23.3
70°-80°	6634.4	20.5
80°-90°	1311.8	4.1
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°	32320.0	100.0
0°-180°	32320.0	100.0

Coefficient of Utilization

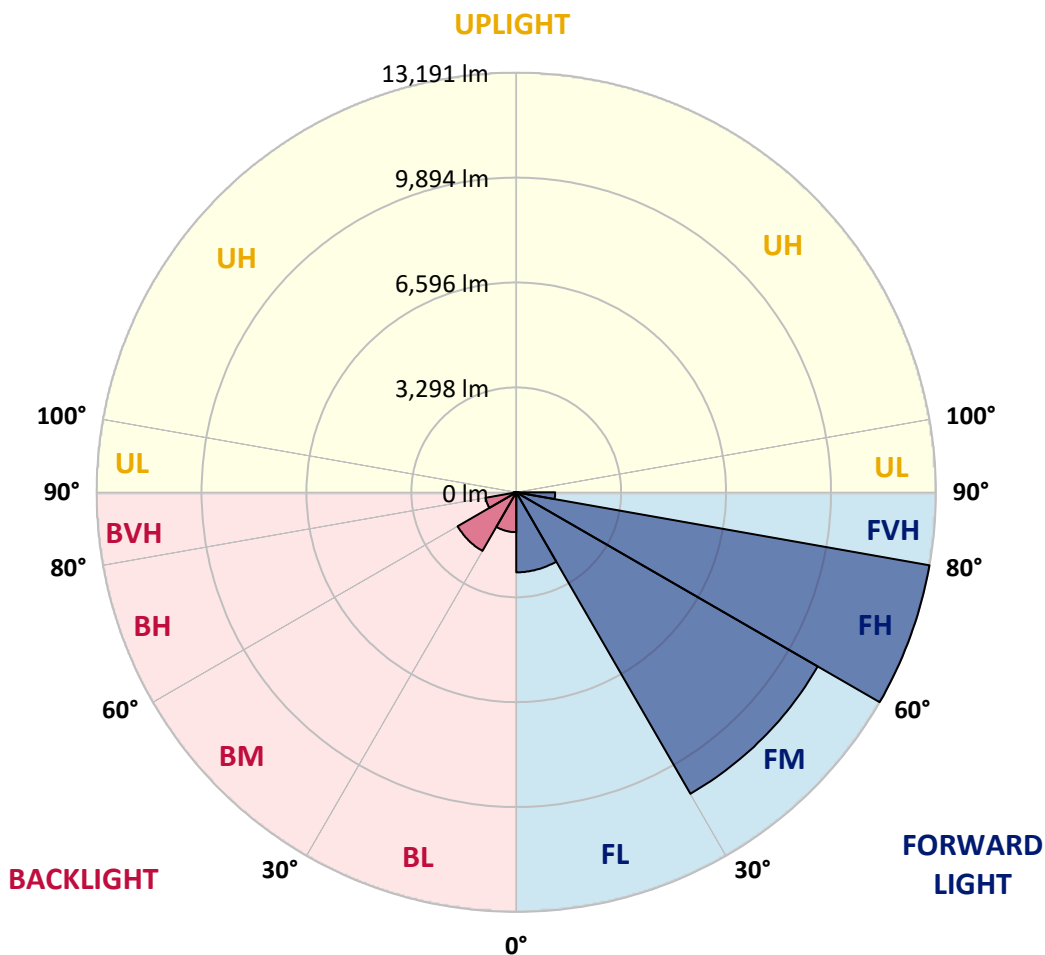


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2514.9	7.8			
FM (30°-60°)	10943.8	33.9			
FH (60°-80°)	13191.4	40.8			G5
FVH (80°-90°)	1222.9	3.8			G5
BL (0°-30°)	1252.6	3.9	B3/2500		
BM (30°-60°)	2128.1	6.6	B2/2500		
BH (60°-80°)	977.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	88.8	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7
2.5°	5889.3	5890.5	5889.3	5880.2	5858.6	5840.4	5825.6	5804.0	5756.1	5719.7	5665.1
5°	5945.1	5938.3	5933.7	5916.7	5882.5	5862.0	5833.6	5792.6	5714.0	5641.2	5552.3
7.5°	5918.9	5911.0	5900.7	5880.2	5841.5	5824.4	5784.6	5731.1	5636.6	5541.0	5413.5
10°	5838.1	5835.8	5831.3	5826.7	5793.7	5780.0	5743.6	5686.7	5593.3	5477.2	5328.1
12.5°	5748.2	5753.9	5772.1	5796.0	5781.2	5774.4	5751.6	5712.9	5617.2	5492.0	5312.1
15°	5691.2	5707.2	5756.1	5818.8	5831.3	5829.0	5823.3	5798.3	5696.9	5558.0	5348.6
17.5°	5671.9	5698.1	5791.4	5895.0	5931.5	5939.4	5941.7	5898.4	5785.7	5638.9	5386.1
20°	5707.2	5740.2	5876.8	6019.1	6077.2	6081.7	6071.5	5996.4	5870.0	5708.3	5406.6
22.5°	5814.2	5843.8	6014.6	6175.1	6241.1	6248.0	6217.2	6103.4	5958.8	5790.3	5435.1
25°	6020.3	6056.7	6227.5	6388.0	6422.1	6423.3	6378.9	6237.7	6074.9	5905.3	5496.6
27.5°	6288.9	6325.4	6479.1	6636.2	6618.0	6607.7	6547.4	6406.2	6226.3	6063.5	5605.9
30°	6588.4	6628.2	6773.9	6885.5	6842.2	6821.8	6772.8	6590.6	6436.9	6279.8	5773.2
32.5°	6898.0	6934.5	7062.0	7138.2	7083.6	7074.5	7000.5	6834.3	6711.3	6610.0	6044.2
35°	7215.7	7241.8	7367.1	7410.3	7337.5	7335.2	7314.7	7162.2	7084.7	7132.6	6438.1
37.5°	7540.1	7547.0	7654.0	7656.3	7634.6	7643.7	7665.4	7569.7	7591.4	7740.5	6950.4
40°	7829.3	7847.5	7924.9	7948.8	7986.4	8018.3	8126.4	8063.8	8231.2	8495.3	7587.9
42.5°	8043.3	8078.6	8202.7	8264.2	8386.0	8436.1	8588.7	8646.7	8983.7	9379.9	8346.2
45°	8224.4	8279.0	8478.2	8604.6	8810.7	8898.3	9116.9	9311.6	9834.2	10339.6	9144.2
47.5°	8420.2	8489.6	8738.9	8980.3	9260.4	9359.4	9756.7	10048.2	10741.5	11305.1	9896.8
50°	8708.2	8761.7	9005.3	9384.5	9734.0	9861.5	10411.4	10829.2	11663.7	12225.0	10549.1
52.5°	9110.1	9089.6	9295.7	9827.3	10296.4	10453.5	11110.4	11660.3	12598.4	13057.2	11100.1
55°	9514.2	9480.1	9624.7	10290.7	10952.1	11117.2	11880.0	12494.8	13487.5	13806.3	11522.5
57.5°	9963.9	9899.1	10020.9	10813.2	11699.0	11895.9	12741.8	13381.7	14361.9	14412.0	11791.2
60°	10427.3	10339.6	10476.3	11461.0	12647.3	12879.6	13750.5	14246.9	15186.1	14897.0	11877.7
62.5°	10832.6	10771.1	10981.7	12184.0	13716.4	13971.4	14741.0	15166.8	15999.0	15098.5	11565.8
65°	11186.7	11196.9	11561.2	12996.8	14908.3	15180.4	15877.2	16300.7	16638.8	14978.9	10836.0
67.5°	11609.0	11667.1	12288.7	14067.0	16408.9	16707.1	17530.3	17537.1	16996.3	14277.6	9399.3
70°	12225.0	12344.5	13289.4	15551.6	18542.4	18952.2	19587.5	18263.4	16494.2	12376.4	7395.5
72.5°	12771.4	12994.6	14353.9	17250.2	21142.6	21453.4	20790.9	17844.5	14396.0	9275.2	4607.4
74°	12549.4	12826.1	14547.5	18087.0	22121.7	22270.9	20384.4	16621.8	12003.0	6423.3	2677.7
75°	12071.3	12371.8	14265.1	18079.0	21997.6	21914.5	19403.1	15224.8	9885.4	4380.9	1781.7
77.5°	9741.9	10059.6	12020.0	15494.7	18036.9	17958.3	14904.9	10213.3	4329.6	1436.8	905.1
80°	5663.9	5906.4	7461.6	9839.9	12162.3	12304.7	9802.3	5053.7	1703.2	807.2	613.6
82.5°	2516.0	2683.4	3604.4	5023.0	7339.8	7523.1	5133.4	2648.1	1052.0	490.7	368.9
85°	1650.8	1774.9	2188.2	2391.9	3495.1	3620.4	2512.6	2061.8	694.5	269.8	271.0
87.5°	1187.4	1307.0	1625.7	1419.7	1604.1	1518.7	1367.3	1908.1	278.9	153.7	91.1
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°	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7	5694.7
2.5°	5641.2	5622.9	5581.9	5504.5	5461.3	5424.8	5364.5	5329.2	5313.3	5312.1	5319.0
5°	5501.1	5459.0	5353.1	5223.3	5119.7	5025.2	4908.0	4837.4	4787.3	4757.7	4765.7
7.5°	5338.3	5272.3	5106.1	4898.9	4732.6	4549.4	4368.3	4260.2	4175.9	4113.3	4124.7
10°	5226.7	5135.7	4893.2	4594.9	4318.2	4051.8	3802.5	3653.4	3535.0	3443.9	3450.7
12.5°	5189.2	5066.2	4730.4	4331.9	3943.7	3579.4	3253.8	3024.9	2903.1	2799.5	2807.5
15°	5194.9	5029.8	4593.8	4095.1	3606.7	3147.9	2752.8	2485.3	2320.2	2248.5	2249.6
17.5°	5199.4	4987.7	4450.3	3841.2	3273.1	2744.9	2315.7	2044.7	1888.7	1822.7	1823.8
20°	5184.6	4919.4	4272.7	3549.8	2924.7	2374.9	1959.3	1729.3	1610.9	1559.7	1559.7
22.5°	5165.3	4838.5	4072.3	3257.2	2580.9	2053.8	1704.3	1529.0	1460.7	1426.5	1425.4
25°	5174.4	4778.2	3867.4	2956.6	2264.4	1797.7	1534.7	1418.5	1373.0	1351.4	1350.2
27.5°	5223.3	4749.7	3678.4	2657.2	1987.8	1605.3	1420.8	1338.8	1309.2	1295.6	1295.6
30°	5312.1	4749.7	3481.5	2402.2	1757.8	1462.9	1333.2	1277.4	1256.9	1247.8	1247.8
32.5°	5467.0	4775.9	3291.3	2149.4	1574.5	1351.4	1260.3	1222.7	1206.8	1202.2	1202.2
35°	5733.4	4864.7	3105.8	1910.4	1426.5	1260.3	1190.8	1169.2	1157.8	1156.7	1160.1
37.5°	6107.9	5045.7	2931.6	1733.9	1321.8	1186.3	1132.8	1115.7	1108.9	1114.6	1119.1
40°	6579.3	5291.6	2773.3	1574.5	1242.1	1127.1	1079.3	1067.9	1064.5	1072.4	1079.3
42.5°	7148.5	5624.1	2643.5	1459.5	1180.6	1077.0	1033.7	1020.1	1016.7	1025.8	1034.9
45°	7764.4	5981.6	2552.5	1374.1	1132.8	1039.4	993.9	979.1	972.3	976.8	987.1
47.5°	8324.5	6319.7	2516.0	1313.8	1087.2	1007.6	958.6	940.4	929.0	926.7	934.7
50°	8797.0	6571.3	2533.1	1277.4	1050.8	972.3	924.4	904.0	886.9	876.6	882.3
52.5°	9140.8	6729.5	2549.0	1261.4	1022.4	933.6	886.9	867.5	844.7	827.7	827.7
55°	9390.2	6766.0	2513.8	1248.9	1000.7	891.4	844.7	826.5	803.8	784.4	782.1
57.5°	9488.1	6663.5	2382.8	1230.7	985.9	851.6	800.3	786.7	767.3	744.6	743.4
60°	9356.0	6347.0	2130.1	1192.0	966.6	818.6	755.9	746.8	737.7	716.1	715.0
62.5°	8825.5	5652.5	1803.3	1113.4	927.9	783.3	715.0	719.5	720.7	705.9	703.6
65°	7863.5	4698.5	1484.6	1011.0	869.8	741.1	672.8	694.5	707.0	704.7	701.3
67.5°	6465.4	3656.8	1258.0	902.8	793.5	683.1	627.3	652.3	662.6	670.6	668.3
70°	4798.7	2578.6	1040.6	789.0	701.3	614.8	568.1	580.6	573.8	582.9	586.3
72.5°	2675.4	1547.2	848.2	675.1	605.7	535.1	502.1	499.8	485.0	485.0	485.0
74°	1605.3	1135.1	745.7	604.5	547.6	482.7	454.3	444.0	430.3	431.5	430.3
75°	1291.0	975.7	684.2	557.9	506.6	452.0	423.5	409.9	399.6	399.6	398.5
77.5°	815.1	741.1	551.0	444.0	405.3	372.3	352.9	334.7	334.7	333.6	332.4
80°	615.9	589.7	429.2	335.9	310.8	285.8	273.2	265.3	265.3	268.7	267.5
82.5°	422.4	444.0	301.7	234.5	222.0	203.8	201.5	202.6	199.2	194.7	193.5
85°	308.5	333.6	203.8	148.0	135.5	124.1	133.2	137.8	132.1	121.8	117.3
87.5°	118.4	218.6	109.3	61.5	56.9	49.0	56.9	59.2	63.8	50.1	51.2
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)