

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: P319679

Luminaire Tested: **GAN-SA5B-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28565 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

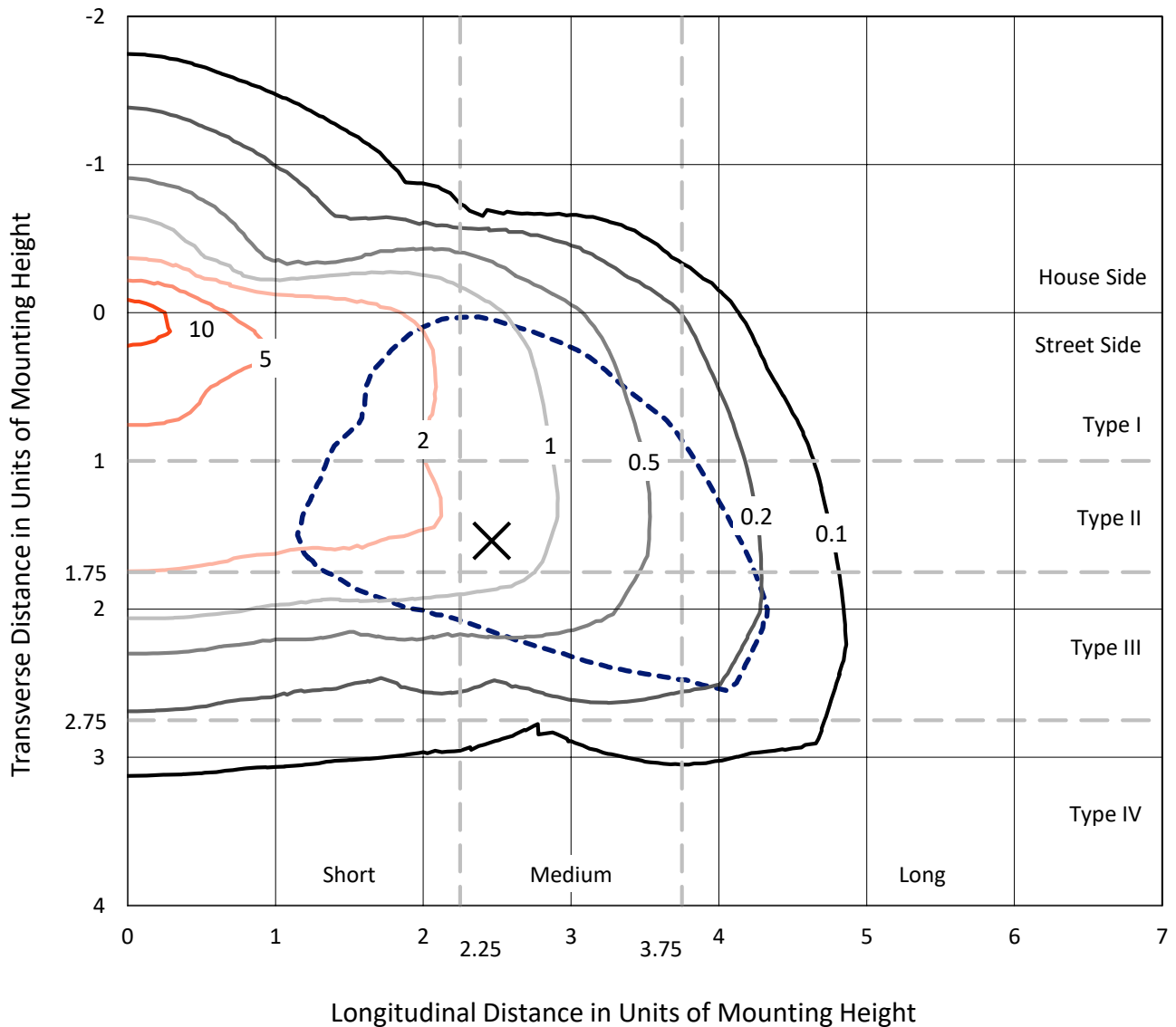
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319679
 CATALOG NUMBER: GAN-SA5B-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

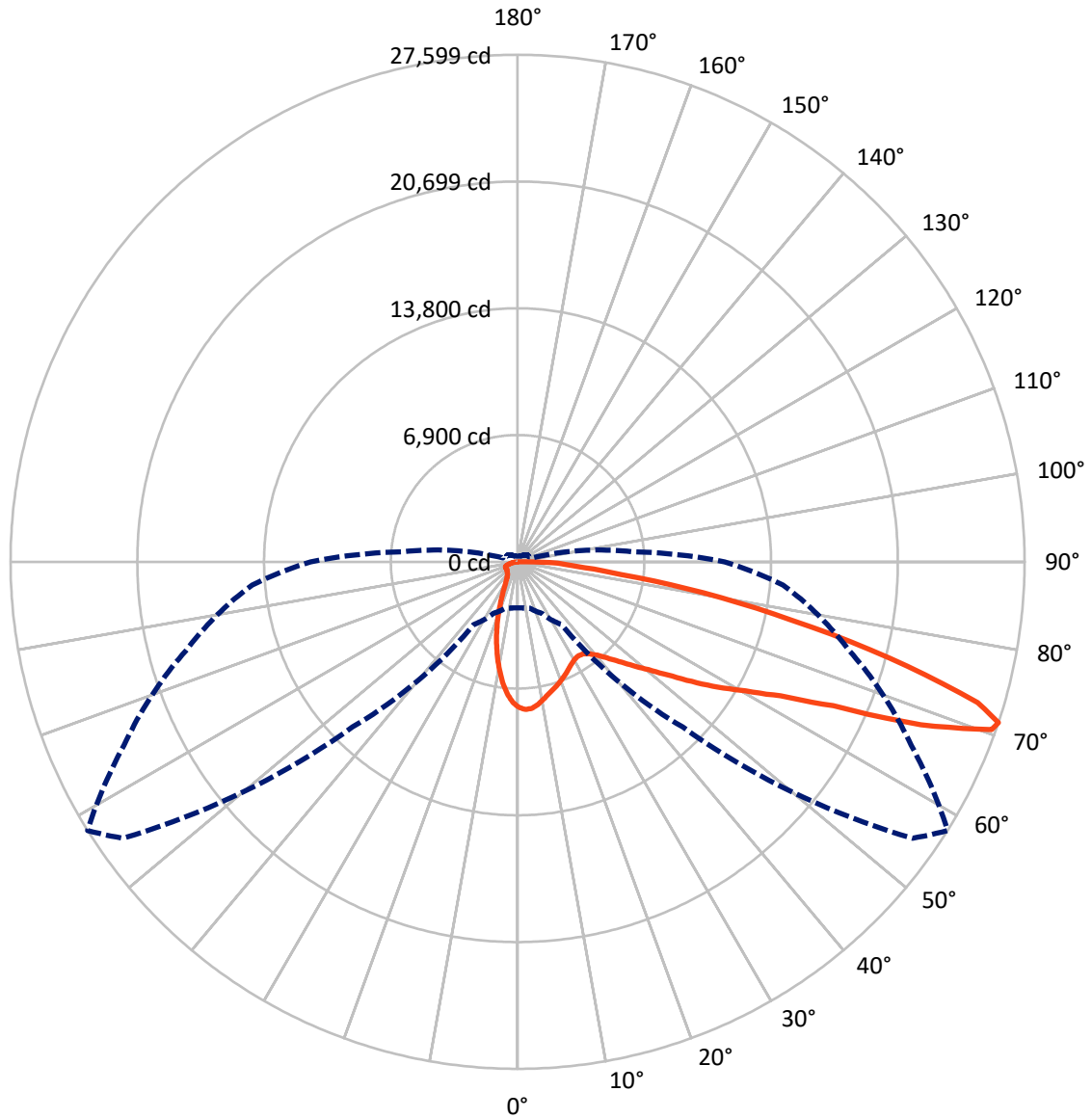
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P319679
CATALOG NUMBER: GAN-SA5B-740-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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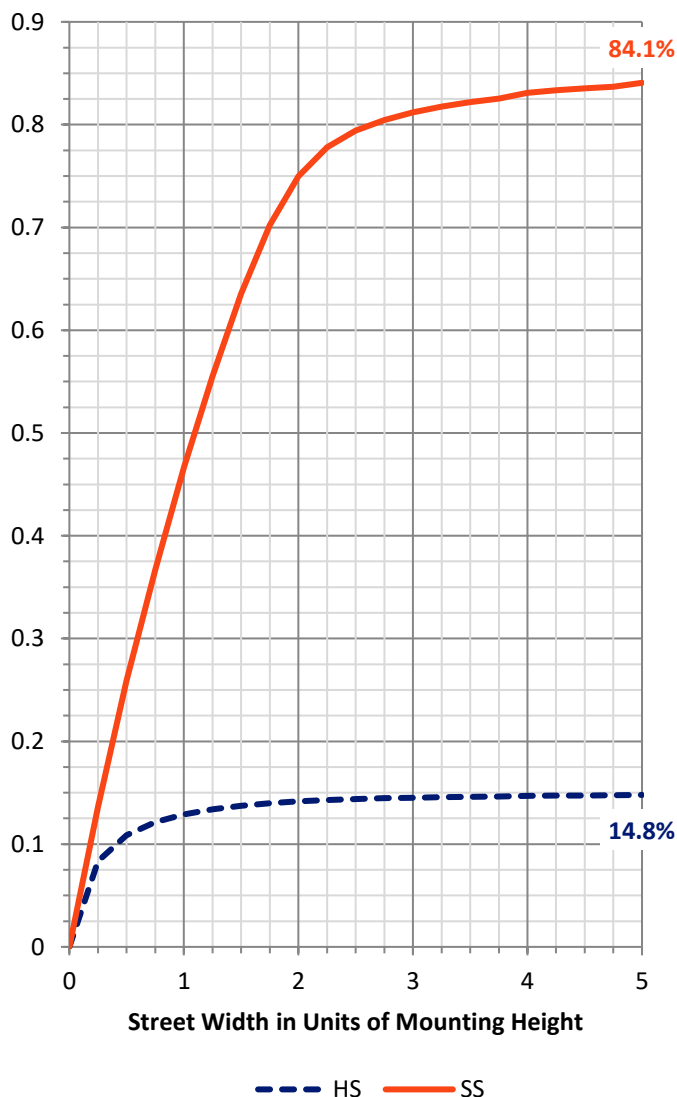
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4270.7	0.0	4270.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	24294.3	0.0	24294.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	28565.0	0.0	28565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.8	2.4
10°-20°	1518.2	5.3
20°-30°	1929.5	6.8
30°-40°	2457.8	8.6
40°-50°	3485.3	12.2
50°-60°	5393.7	18.9
60°-70°	7342.8	25.7
70°-80°	4898.5	17.1
80°-90°	856.4	3.0
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°	28565.0	100.0
0°-180°	28565.0	100.0

Coefficient of Utilization

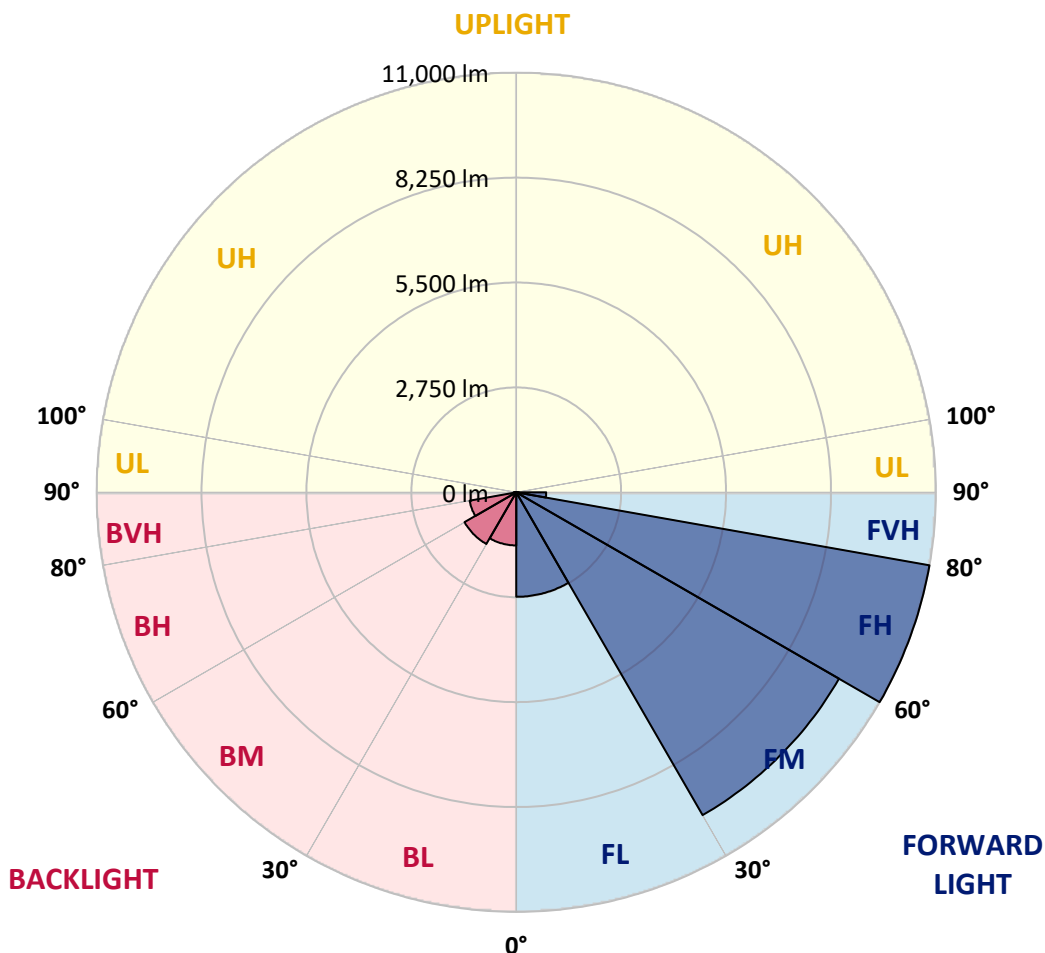


REPORT NUMBER: P319679
 CATALOG NUMBER: GAN-SA5B-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.4	9.6			
FM (30°-60°)	9770.6	34.2			
FH (60°-80°)	11000.0	38.5			G4/12000
FVH (80°-90°)	785.3	2.7			G5
BL (0°-30°)	1392.1	4.9	B3/2500		
BM (30°-60°)	1566.2	5.5	B2/2500		
BH (60°-80°)	1241.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	71.2	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4
2.5°	8124.4	8113.4	8117.4	8109.4	8090.5	8071.6	8043.8	8048.7	8009.9	7952.2	7880.6
5°	7971.1	7967.2	7997.0	8013.9	8027.8	8016.9	8008.9	8018.9	7962.2	7882.6	7758.2
7.5°	7649.7	7606.0	7643.8	7700.5	7754.2	7795.0	7848.7	7855.7	7819.9	7736.3	7573.1
10°	7193.0	7151.2	7207.0	7295.5	7403.0	7500.5	7608.9	7628.8	7635.8	7560.2	7362.2
12.5°	6719.4	6687.6	6743.3	6867.7	7045.8	7196.0	7369.1	7399.0	7460.7	7409.9	7167.2
15°	6295.5	6283.6	6351.2	6473.6	6678.6	6908.4	7158.2	7212.9	7317.4	7300.5	7014.9
17.5°	5929.3	5926.4	5978.1	6106.5	6333.3	6623.9	6948.2	7040.8	7196.0	7215.9	6889.5
20°	5656.7	5650.7	5686.6	5781.1	6014.9	6344.3	6721.4	6848.7	7072.6	7142.3	6760.2
22.5°	5510.4	5509.4	5510.4	5555.2	5746.3	6052.7	6500.5	6655.7	6952.2	7083.6	6616.9
25°	5485.6	5482.6	5460.7	5455.7	5564.2	5808.9	6281.6	6452.7	6837.8	7042.8	6480.6
27.5°	5550.2	5554.2	5525.4	5478.6	5500.5	5648.7	6091.5	6274.6	6746.3	7034.8	6386.1
30°	5684.6	5682.6	5657.7	5608.9	5566.2	5589.0	5956.2	6139.3	6684.6	7069.6	6321.4
32.5°	5832.8	5843.8	5838.8	5811.9	5748.2	5656.7	5915.4	6094.5	6666.7	7153.2	6293.5
35°	6010.9	6022.9	6058.7	6079.6	6005.0	5857.7	6003.0	6158.2	6718.4	7310.4	6338.3
37.5°	6180.1	6210.9	6311.4	6400.0	6336.3	6172.1	6235.8	6346.3	6878.6	7558.2	6458.7
40°	6375.1	6402.0	6566.2	6754.2	6744.3	6574.1	6610.9	6684.6	7161.2	7913.4	6676.6
42.5°	6567.2	6620.9	6858.7	7125.4	7202.0	7051.7	7110.4	7149.2	7559.2	8384.1	7056.7
45°	6822.9	6880.6	7210.9	7532.3	7711.4	7626.9	7720.4	7735.3	8059.7	9024.9	7608.9
47.5°	7209.9	7275.6	7660.7	7998.0	8271.6	8280.6	8434.8	8428.8	8684.6	9758.2	8304.5
50°	7812.9	7907.4	8222.9	8538.3	8870.6	9055.7	9261.7	9232.8	9433.8	10539.3	9105.5
52.5°	8603.0	8646.8	8880.6	9113.4	9526.4	9941.3	10236.8	10210.9	10283.6	11342.3	10014.9
55°	9421.9	9454.7	9551.2	9678.6	10233.8	10910.4	11535.3	11494.5	11310.4	12176.1	10913.4
57.5°	10158.2	10224.9	10291.5	10344.3	10946.3	11923.4	12863.7	12866.6	12424.9	13075.6	11841.8
60°	10272.6	10331.3	10772.1	11188.0	12165.2	13274.6	14285.5	14255.7	13578.1	14051.7	12876.6
62.5°	9080.6	9212.9	9949.2	11055.7	13339.3	15746.2	16099.5	16062.7	14957.2	15254.7	14081.6
65°	6507.5	6657.7	7546.3	9208.9	12770.1	18469.6	19373.1	18877.6	16837.8	16734.3	15492.5
67.5°	3754.2	3790.0	4175.1	5510.4	9723.4	18611.9	24367.1	23673.6	19758.2	18412.9	16183.1
70°	2776.1	2775.1	2866.7	3391.0	5261.7	15190.0	26742.2	27364.1	22832.8	18965.1	15206.9
71°	2510.4	2513.4	2615.9	3086.6	4167.2	12714.4	26237.8	27599.0	23642.7	18692.5	14500.5
72.5°	2147.3	2157.2	2299.5	2768.2	3505.5	8768.1	24064.6	26190.0	24026.8	18019.9	13395.0
75°	1628.9	1651.7	1848.8	2333.3	3204.0	4446.8	17661.7	20913.4	21344.2	15900.5	9953.2
77.5°	1162.2	1188.1	1410.9	1962.2	3045.8	3351.2	11827.8	15254.7	15707.4	10190.0	4489.5
80°	734.3	765.2	933.3	1561.2	2861.7	3182.1	7432.8	10253.7	8565.2	3260.7	1142.3
82.5°	430.8	454.7	579.1	1019.9	2337.3	3064.7	4373.1	5683.6	3333.3	985.1	519.4
85°	249.8	260.7	361.2	649.8	1697.5	2892.5	3212.9	3177.1	1446.8	481.6	245.8
87.5°	116.4	129.4	213.9	339.3	942.3	2096.5	2539.3	2194.0	899.5	225.9	115.4
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°	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4	7914.4
2.5°	7845.8	7828.8	7758.2	7695.5	7629.8	7544.3	7449.7	7437.8	7380.1	7391.0	7371.1
5°	7690.5	7647.7	7477.6	7323.4	7141.3	6978.1	6801.0	6719.4	6602.0	6594.0	6564.2
7.5°	7468.6	7389.0	7125.4	6832.8	6540.3	6261.7	5986.1	5805.0	5619.9	5541.3	5534.3
10°	7218.9	7083.6	6695.5	6262.7	5840.8	5433.8	5039.8	4748.3	4485.6	4361.2	4356.2
12.5°	6982.1	6782.1	6249.7	5660.7	5083.6	4556.2	4015.9	3632.8	3303.5	3193.0	3146.3
15°	6781.1	6499.5	5815.9	5062.7	4362.2	3629.8	3014.9	2611.9	2307.5	2202.0	2182.1
17.5°	6586.1	6223.9	5371.1	4458.7	3611.9	2807.0	2191.0	1891.5	1729.4	1686.6	1685.6
20°	6392.0	5940.3	4906.5	3840.8	2886.6	2099.5	1684.6	1550.2	1495.5	1490.5	1482.6
22.5°	6172.1	5639.8	4417.9	3220.9	2252.7	1650.7	1431.8	1378.1	1371.1	1389.1	1389.1
25°	5966.2	5341.3	3922.4	2613.9	1752.2	1377.1	1278.6	1267.7	1286.6	1318.4	1321.4
27.5°	5774.1	5053.7	3438.8	2074.6	1404.0	1212.9	1172.1	1185.1	1218.9	1255.7	1256.7
30°	5615.9	4782.1	2969.1	1634.8	1186.1	1090.5	1083.6	1109.5	1146.3	1175.1	1182.1
32.5°	5493.5	4550.2	2515.4	1314.4	1043.8	999.0	1005.0	1026.9	1049.7	1065.7	1076.6
35°	5436.8	4351.2	2096.5	1108.5	953.2	928.4	936.3	948.3	958.2	970.1	979.1
37.5°	5446.8	4197.0	1722.4	980.1	892.5	879.6	879.6	879.6	879.6	885.6	886.6
40°	5539.3	4108.5	1417.9	898.5	851.7	837.8	826.9	816.9	809.0	812.9	810.9
42.5°	5776.1	4100.5	1195.0	846.8	818.9	796.0	774.1	760.2	750.2	754.2	756.2
45°	6178.1	4200.0	1044.8	809.9	788.1	753.2	725.4	710.4	703.5	716.4	718.4
47.5°	6698.5	4416.9	953.2	783.1	759.2	713.4	683.6	669.7	671.6	690.5	695.5
50°	7369.1	4769.1	909.5	766.2	739.3	679.6	648.8	636.8	642.8	669.7	675.6
52.5°	8105.5	5276.6	914.4	761.2	726.4	654.7	621.9	608.0	617.9	642.8	647.8
55°	8955.2	5886.6	997.0	768.2	707.5	638.8	600.0	576.1	584.1	607.0	610.9
57.5°	9899.5	6585.1	1163.2	766.2	683.6	623.9	577.1	541.3	547.3	561.2	565.2
60°	10882.6	7428.8	1420.9	772.1	672.6	606.0	546.3	501.5	499.5	511.4	513.4
62.5°	12062.7	8405.0	1715.4	776.1	679.6	583.1	505.5	461.7	455.7	458.7	460.7
65°	13278.6	9111.4	1605.0	760.2	701.5	564.2	469.7	422.9	411.9	409.9	410.9
67.5°	13316.4	8354.2	1125.4	728.4	710.4	554.2	442.8	390.0	372.1	365.2	364.2
70°	11942.3	6787.1	876.6	694.5	674.6	538.3	417.9	363.2	336.3	325.4	324.4
71°	11271.6	6247.8	830.8	677.6	647.8	522.4	407.0	351.2	323.4	311.4	309.5
72.5°	10219.9	5601.0	775.1	650.7	596.0	481.6	386.1	334.3	305.5	291.5	288.6
75°	7334.3	3662.7	665.7	580.1	493.5	384.1	338.3	300.5	275.6	258.7	256.7
77.5°	2825.9	1457.7	503.5	482.6	378.1	300.5	278.6	259.7	241.8	224.9	223.9
80°	873.6	651.7	367.2	363.2	273.6	223.9	216.9	211.9	205.0	187.1	183.1
82.5°	466.7	374.1	252.7	234.8	179.1	149.3	157.2	159.2	160.2	141.3	139.3
85°	222.9	198.0	142.3	133.3	104.5	83.6	96.5	104.5	105.5	86.6	80.6
87.5°	106.5	103.5	66.7	50.7	38.8	27.9	33.8	41.8	45.8	32.8	28.9
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)