

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: P320001

Luminaire Tested: **GAN-SA7B-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320001
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-SA7B-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 38409 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

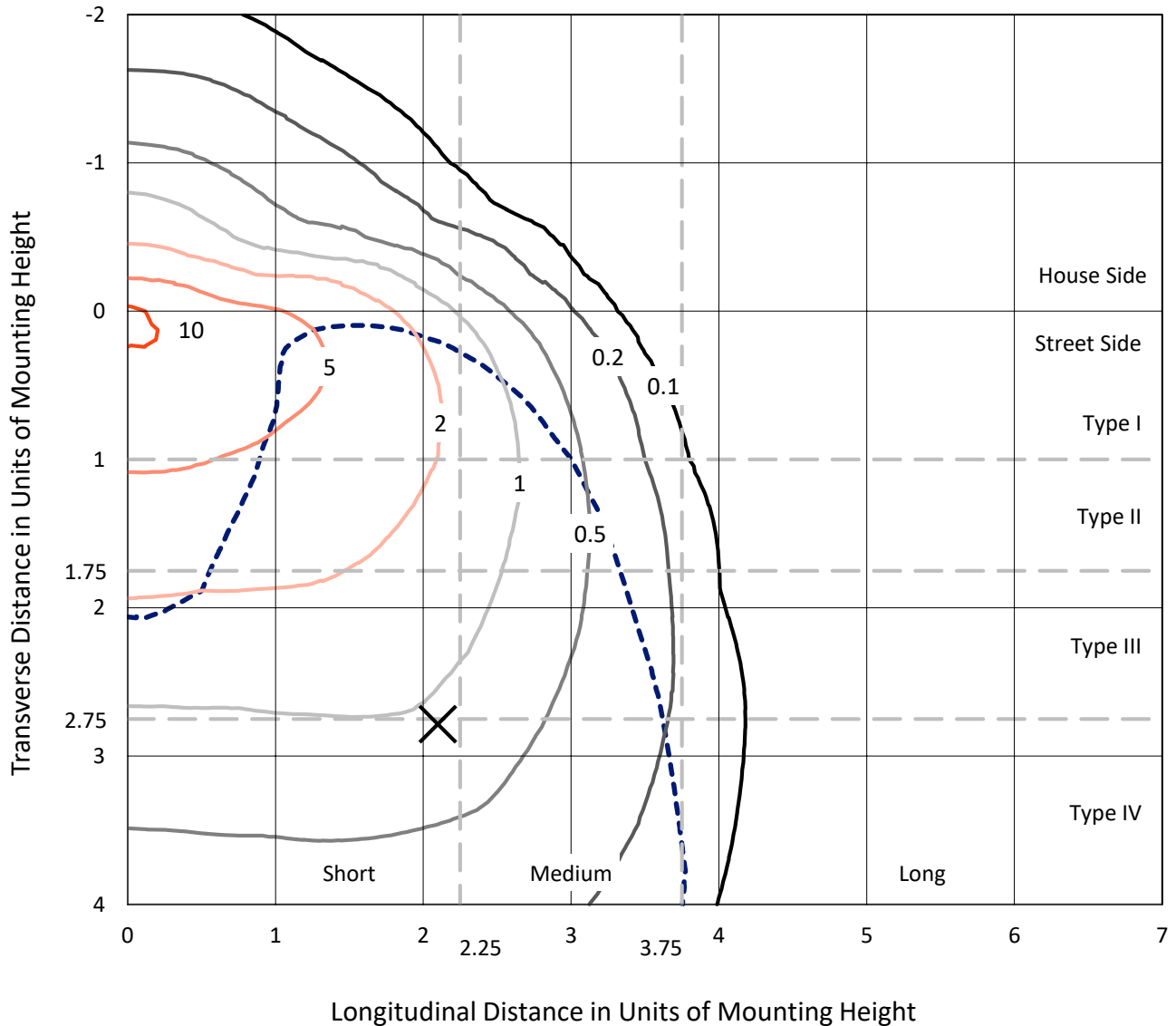
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

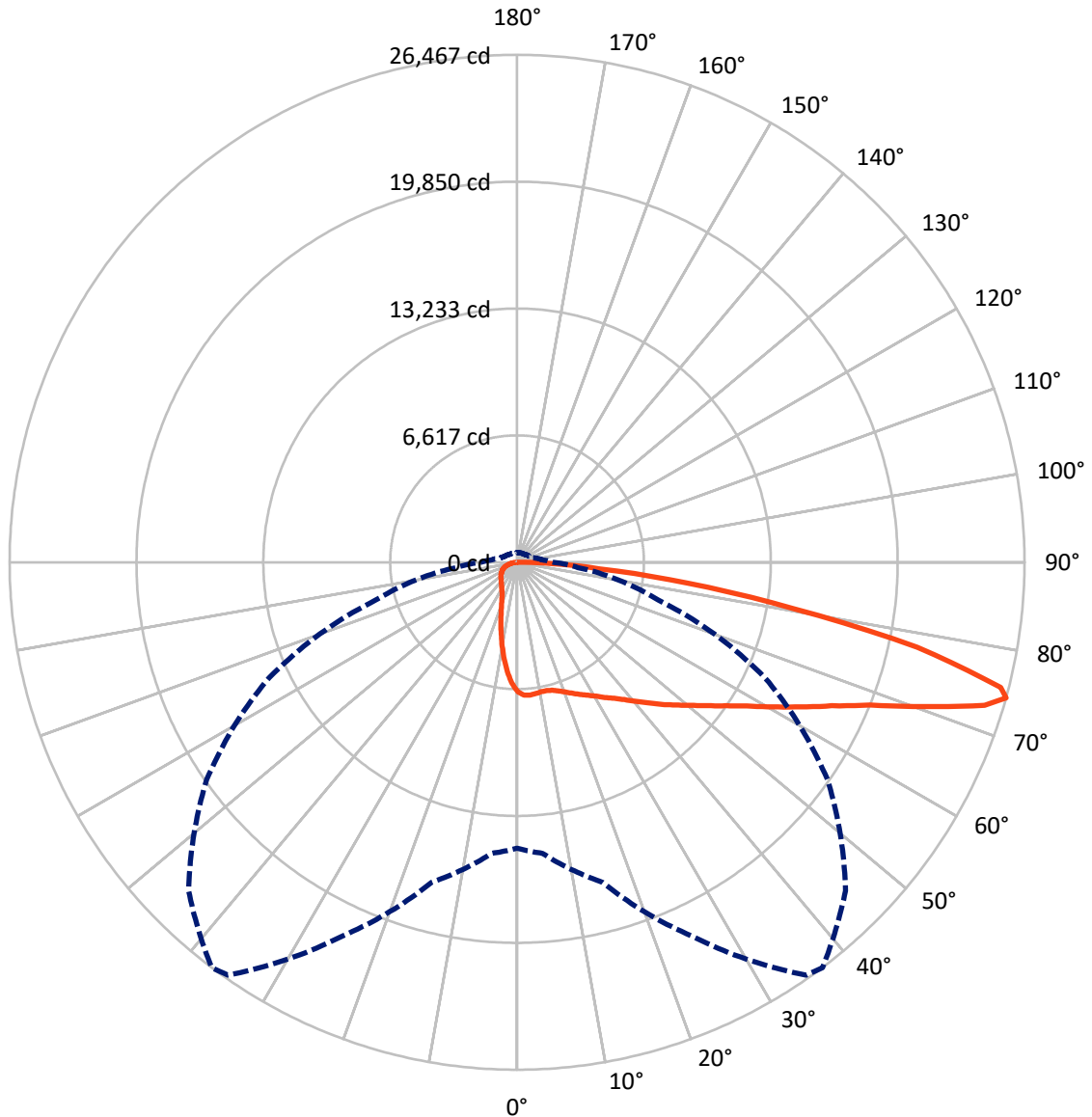
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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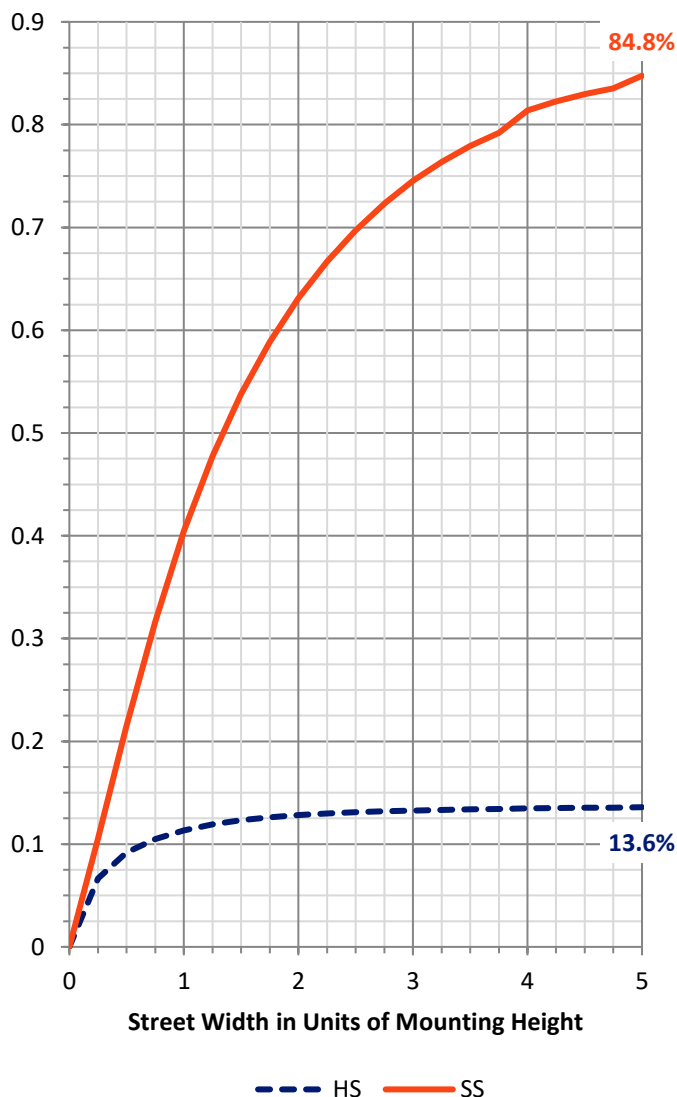
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5284.8	0.0	5284.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	33124.2	0.0	33124.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	38409.0	0.0	38409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.0	1.6
10°-20°	1527.6	4.0
20°-30°	2353.7	6.1
30°-40°	3422.7	8.9
40°-50°	5037.6	13.1
50°-60°	7074.4	18.4
60°-70°	8954.0	23.3
70°-80°	7884.3	20.5
80°-90°	1558.9	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°	38409.0	100.0
0°-180°	38409.0	100.0

Coefficient of Utilization

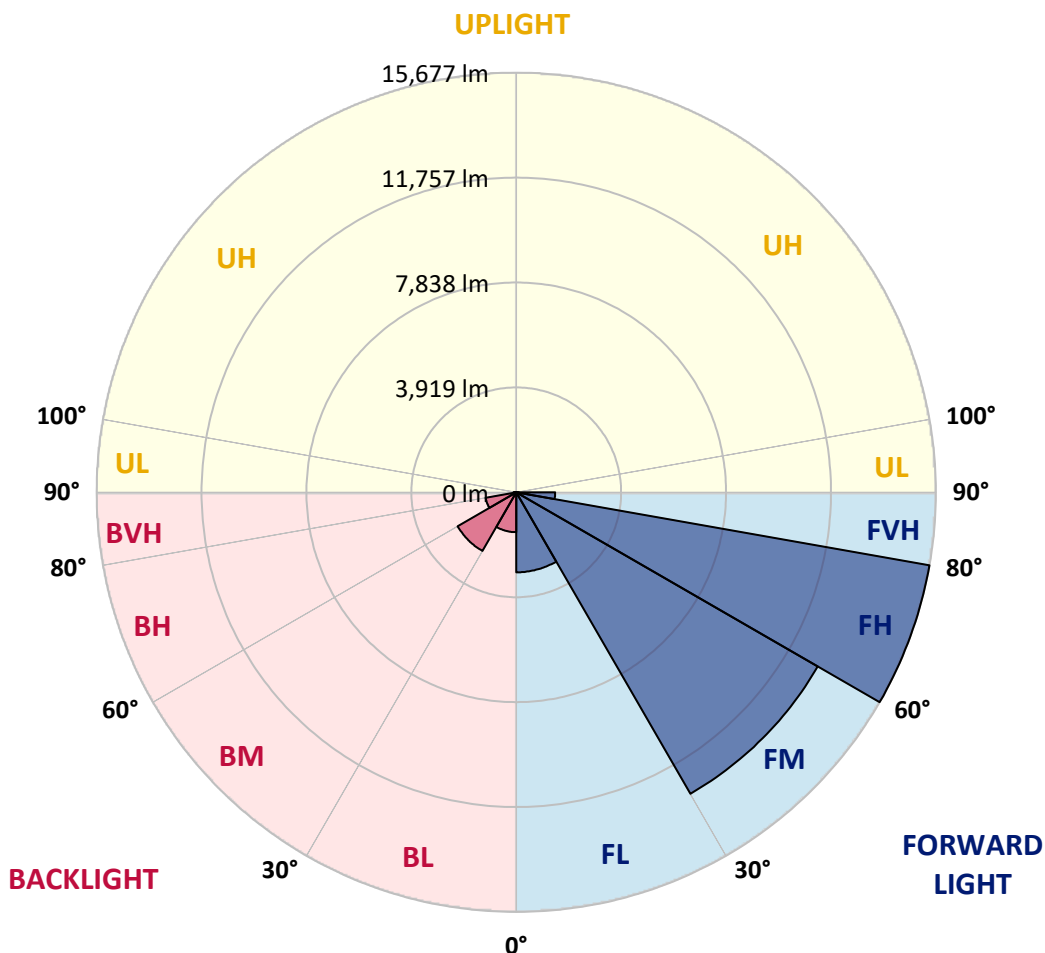


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2988.7	7.8			
FM (30°-60°)	13005.6	33.9			
FH (60°-80°)	15676.6	40.8			G5
FVH (80°-90°)	1453.3	3.8			G5
BL (0°-30°)	1488.6	3.9	B3/2500		
BM (30°-60°)	2529.0	6.6	B3/5000		
BH (60°-80°)	1161.7	3.0	B3/2500		G3/2500
BVH (80°-90°)	105.6	0.3			G2/225
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°	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5
2.5°	6998.9	7000.2	6998.9	6988.0	6962.3	6940.7	6923.1	6897.4	6840.6	6797.3	6732.3
5°	7065.2	7057.1	7051.6	7031.3	6990.8	6966.4	6932.6	6883.9	6790.5	6703.9	6598.4
7.5°	7034.1	7024.6	7012.4	6988.0	6942.0	6921.8	6874.4	6810.8	6698.5	6584.9	6433.3
10°	6938.0	6935.3	6929.9	6924.5	6885.2	6869.0	6825.7	6758.0	6647.1	6509.1	6331.9
12.5°	6831.1	6837.9	6859.5	6887.9	6870.3	6862.2	6835.2	6789.2	6675.5	6526.7	6312.9
15°	6763.5	6782.4	6840.6	6915.0	6929.9	6927.2	6920.4	6890.6	6770.2	6605.2	6356.2
17.5°	6740.5	6771.6	6882.5	7005.6	7048.9	7058.4	7061.1	7009.7	6875.8	6701.2	6400.9
20°	6782.4	6821.6	6984.0	7153.1	7222.1	7227.5	7215.3	7126.1	6975.9	6783.8	6425.2
22.5°	6909.6	6944.8	7147.7	7338.5	7416.9	7425.1	7388.5	7253.2	7081.4	6881.2	6459.0
25°	7154.5	7197.8	7400.7	7591.5	7632.1	7633.4	7580.6	7412.9	7219.4	7017.8	6532.1
27.5°	7473.8	7517.1	7699.7	7886.4	7864.8	7852.6	7780.9	7613.1	7399.4	7205.9	6662.0
30°	7829.6	7876.9	8050.1	8182.7	8131.3	8106.9	8048.8	7832.3	7649.6	7462.9	6860.9
32.5°	8197.6	8240.9	8392.4	8483.1	8418.1	8407.3	8319.4	8121.8	7975.7	7855.3	7182.9
35°	8575.1	8606.2	8755.0	8806.4	8719.8	8717.1	8692.8	8511.5	8419.5	8476.3	7651.0
37.5°	8960.7	8968.8	9096.0	9098.7	9073.0	9083.8	9109.5	8995.8	9021.6	9198.8	8259.8
40°	9304.3	9326.0	9418.0	9446.4	9491.0	9528.9	9657.4	9583.0	9781.9	10095.8	9017.5
42.5°	9558.7	9600.6	9748.1	9821.2	9965.9	10025.4	10206.7	10275.7	10676.2	11147.1	9918.6
45°	9773.8	9838.7	10075.5	10225.7	10470.6	10574.8	10834.5	11065.9	11686.9	12287.6	10867.0
47.5°	10006.5	10089.0	10385.3	10672.2	11005.0	11122.7	11594.9	11941.2	12765.2	13434.9	11761.3
50°	10348.8	10412.4	10701.9	11152.5	11567.8	11719.4	12372.8	12869.4	13861.1	14528.1	12536.5
52.5°	10826.4	10802.1	11046.9	11678.8	12236.2	12422.9	13203.6	13857.0	14971.9	15517.1	13191.4
55°	11306.7	11266.1	11437.9	12229.4	13015.5	13211.7	14118.2	14848.8	16028.5	16407.4	13693.3
57.5°	11841.1	11764.0	11908.8	12850.4	13903.0	14137.1	15142.4	15902.7	17067.6	17127.1	14012.6
60°	12391.8	12287.6	12450.0	13620.3	15030.1	15306.1	16341.1	16931.0	18047.2	17703.5	14115.5
62.5°	12873.4	12800.4	13050.7	14479.4	16300.5	16603.6	17518.2	18024.2	19013.2	17943.0	13744.7
65°	13294.2	13306.4	13739.3	15445.4	17717.0	18040.4	18868.4	19371.7	19773.5	17800.9	12877.5
67.5°	13796.2	13865.2	14603.9	16717.2	19500.2	19854.7	20832.9	20841.0	20198.4	16967.5	11170.1
70°	14528.1	14670.2	15793.1	18481.5	22035.7	22522.8	23277.7	21704.2	19601.7	14708.1	8788.8
72.5°	15177.5	15442.7	17058.1	20500.1	25125.9	25495.2	24707.8	21206.3	17108.2	11022.6	5475.4
74°	14913.7	15242.5	17288.2	21494.5	26289.4	26466.6	24224.8	19753.2	14264.3	7633.4	3182.2
75°	14345.5	14702.6	16952.6	21485.0	26141.9	26043.2	23058.5	18093.2	11747.8	5206.2	2117.4
77.5°	11577.3	11954.8	14284.6	18413.8	21435.0	21341.6	17713.0	12137.4	5145.3	1707.4	1075.6
80°	6731.0	7019.2	8867.3	11693.7	14453.7	14622.8	11649.0	6005.8	2024.0	959.3	729.2
82.5°	2990.0	3188.9	4283.5	5969.3	8722.5	8940.4	6100.5	3147.0	1250.1	583.1	438.4
85°	1961.8	2109.3	2600.4	2842.6	4153.6	4302.4	2986.0	2450.2	825.3	320.7	322.0
87.5°	1411.1	1553.2	1932.0	1687.1	1906.3	1804.9	1624.9	2267.6	331.5	182.6	108.2
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°	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5	6767.5
2.5°	6703.9	6682.3	6633.6	6541.6	6490.2	6446.9	6375.2	6333.2	6314.3	6312.9	6321.0
5°	6537.5	6487.5	6361.6	6207.4	6084.3	5972.0	5832.6	5748.7	5689.2	5654.0	5663.5
7.5°	6344.0	6265.6	6068.0	5821.8	5624.3	5406.4	5191.3	5062.8	4962.7	4888.3	4901.8
10°	6211.4	6103.2	5815.0	5460.6	5131.8	4815.2	4518.9	4341.7	4200.9	4092.7	4100.8
12.5°	6166.8	6020.7	5621.6	5148.0	4686.7	4253.7	3866.8	3594.8	3450.1	3326.9	3336.4
15°	6173.6	5977.4	5459.2	4866.6	4286.2	3740.9	3271.5	2953.5	2757.3	2672.1	2673.5
17.5°	6179.0	5927.3	5288.7	4564.9	3889.8	3262.0	2751.9	2429.9	2244.6	2166.1	2167.4
20°	6161.4	5846.1	5077.7	4218.5	3475.8	2822.3	2328.4	2055.1	1914.4	1853.6	1853.6
22.5°	6138.4	5750.1	4839.5	3870.8	3067.2	2440.7	2025.4	1817.0	1735.9	1695.3	1693.9
25°	6149.2	5678.4	4596.0	3513.6	2691.0	2136.3	1823.8	1685.8	1631.7	1606.0	1604.6
27.5°	6207.4	5644.6	4371.4	3157.8	2362.3	1907.7	1688.5	1591.1	1555.9	1539.7	1539.7
30°	6312.9	5644.6	4137.4	2854.8	2089.0	1738.6	1584.3	1518.0	1493.7	1482.8	1482.8
32.5°	6496.9	5675.7	3911.4	2554.4	1871.1	1606.0	1497.7	1453.1	1434.1	1428.7	1428.7
35°	6813.5	5781.2	3690.9	2270.3	1695.3	1497.7	1415.2	1389.5	1376.0	1374.6	1378.7
37.5°	7258.6	5996.3	3483.9	2060.6	1570.8	1409.8	1346.2	1325.9	1317.8	1324.5	1330.0
40°	7818.8	6288.6	3295.8	1871.1	1476.1	1339.4	1282.6	1269.1	1265.0	1274.5	1282.6
42.5°	8495.2	6683.6	3141.6	1734.5	1403.0	1279.9	1228.5	1212.3	1208.2	1219.0	1229.8
45°	9227.2	7108.5	3033.3	1633.0	1346.2	1235.3	1181.1	1163.5	1155.4	1160.8	1173.0
47.5°	9892.9	7510.3	2990.0	1561.3	1292.1	1197.4	1139.2	1117.5	1104.0	1101.3	1110.8
50°	10454.3	7809.3	3010.3	1518.0	1248.8	1155.4	1098.6	1074.3	1054.0	1041.8	1048.5
52.5°	10862.9	7997.4	3029.3	1499.1	1215.0	1109.4	1054.0	1031.0	1003.9	983.6	983.6
55°	11159.2	8040.7	2987.3	1484.2	1189.3	1059.4	1003.9	982.3	955.2	932.2	929.5
57.5°	11275.6	7918.9	2831.7	1462.6	1171.7	1012.0	951.1	934.9	911.9	884.8	883.5
60°	11118.6	7542.8	2531.4	1416.6	1148.7	972.8	898.4	887.5	876.7	851.0	849.7
62.5°	10488.2	6717.5	2143.1	1323.2	1102.7	930.8	849.7	855.1	856.4	838.8	836.1
65°	9344.9	5583.7	1764.3	1201.4	1033.7	880.8	799.6	825.3	840.2	837.5	833.4
67.5°	7683.5	4345.7	1495.0	1072.9	943.0	811.8	745.5	775.2	787.4	796.9	794.2
70°	5702.7	3064.5	1236.6	937.6	833.4	730.6	675.1	690.0	681.9	692.7	696.8
72.5°	3179.5	1838.7	1008.0	802.3	719.8	635.9	596.7	594.0	576.4	576.4	576.4
74°	1907.7	1348.9	886.2	718.4	650.8	573.7	539.8	527.7	511.4	512.8	511.4
75°	1534.3	1159.5	813.1	663.0	602.1	537.1	503.3	487.1	474.9	474.9	473.5
77.5°	968.7	880.8	654.8	527.7	481.7	442.4	419.4	397.8	397.8	396.4	395.1
80°	732.0	700.8	510.1	399.1	369.4	339.6	324.7	315.2	315.2	319.3	317.9
82.5°	501.9	527.7	358.5	278.7	263.8	242.2	239.5	240.8	236.8	231.4	230.0
85°	366.7	396.4	242.2	175.9	161.0	147.5	158.3	163.7	156.9	144.8	139.4
87.5°	140.7	259.8	129.9	73.1	67.6	58.2	67.6	70.4	75.8	59.5	60.9
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)