

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: P318744

Luminaire Tested: **GAN-SA0D-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 77261 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

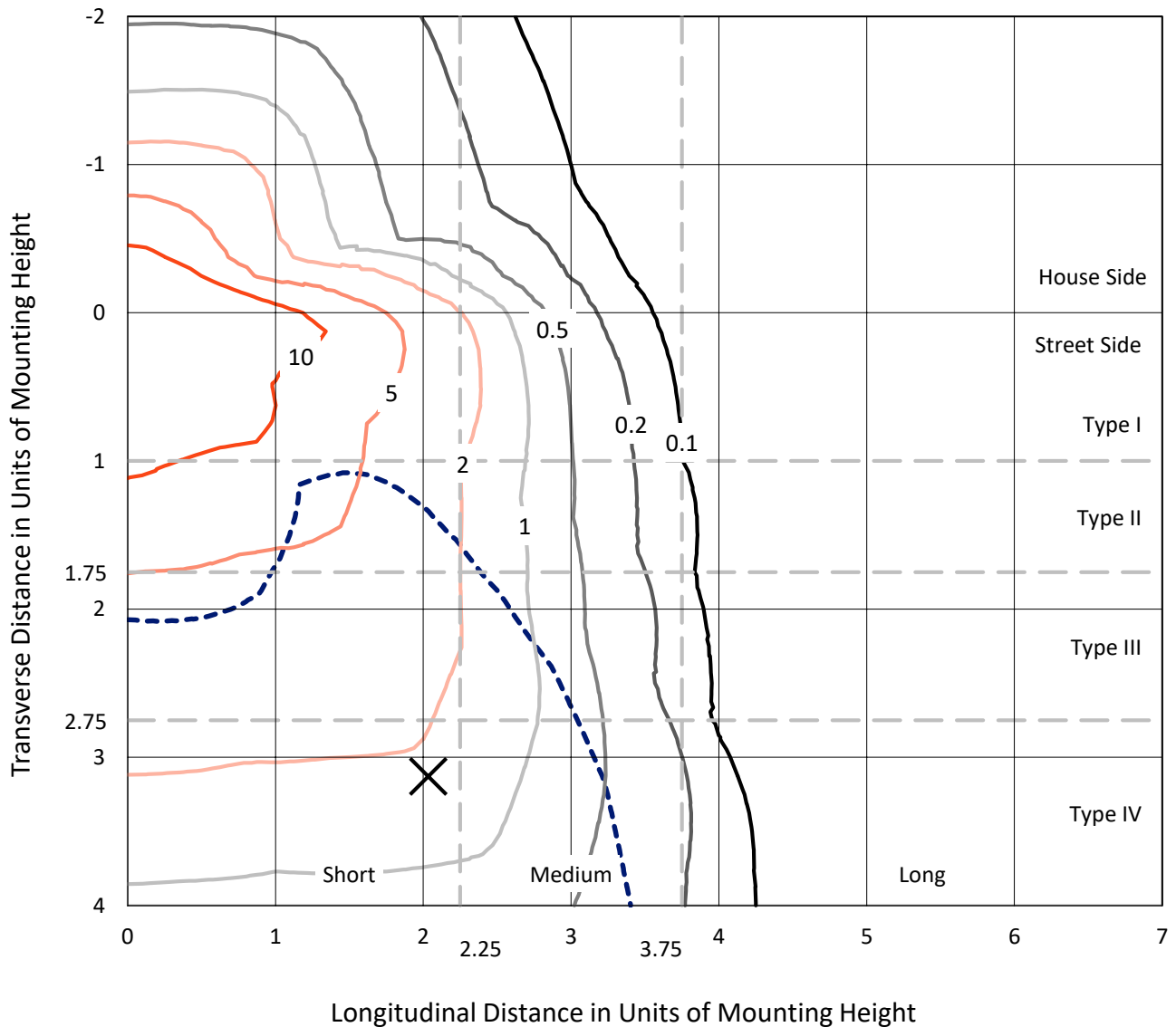
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

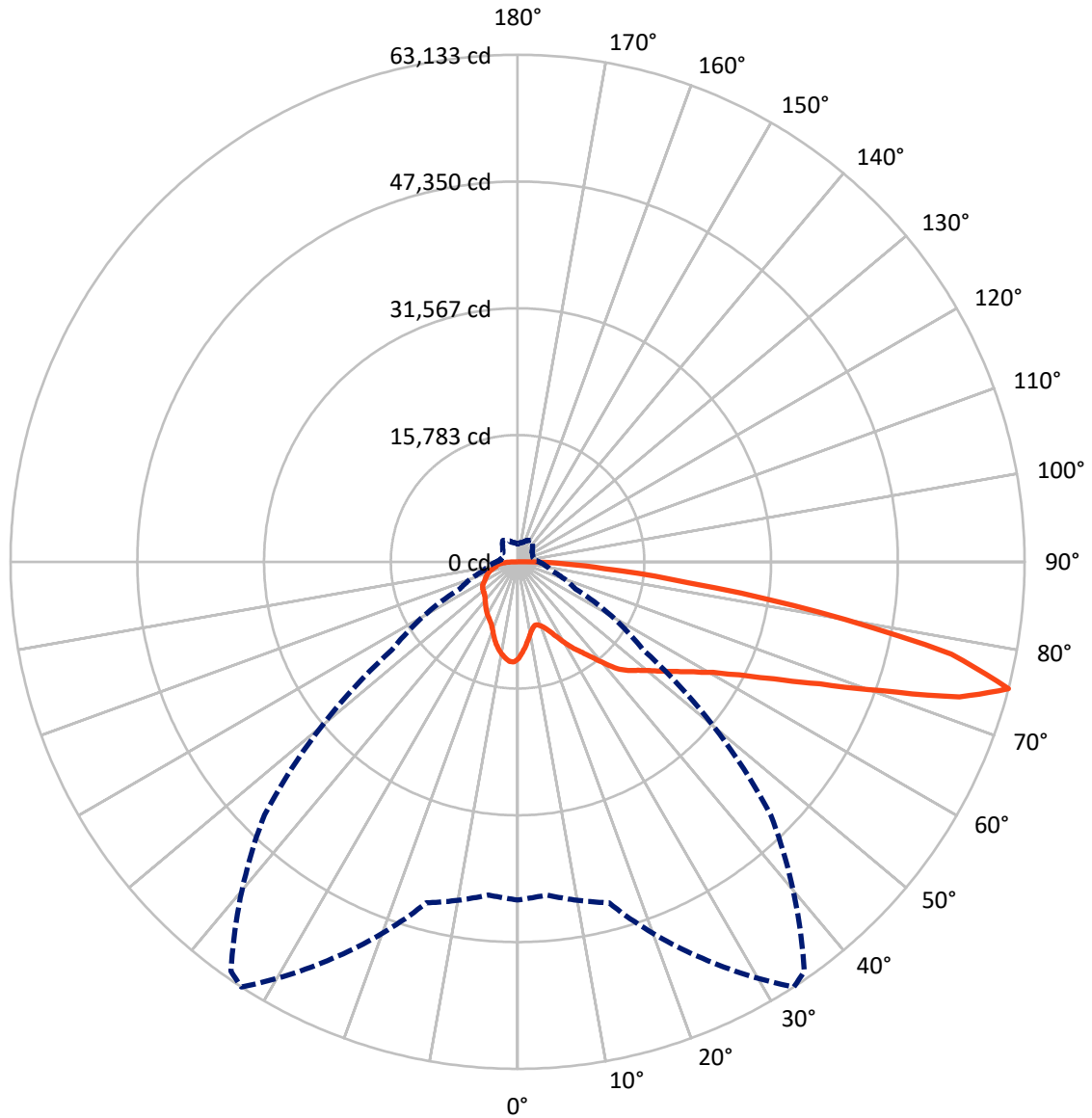
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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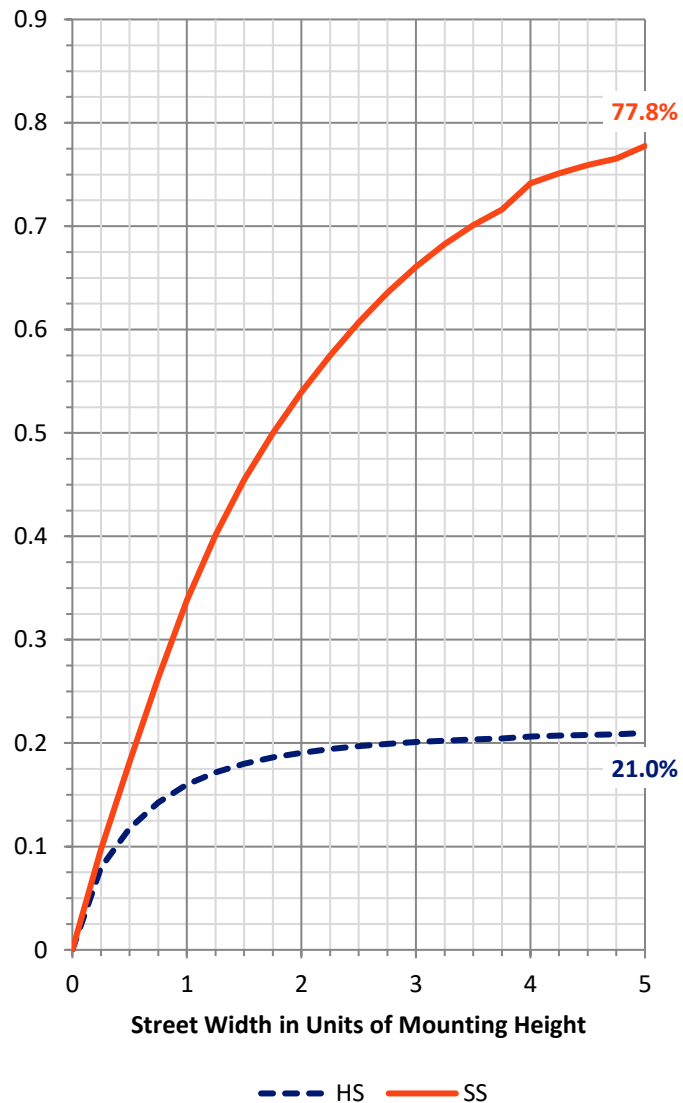
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16590.0	0.0	16590.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	60671.0	0.0	60671.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	77261.0	0.0	77261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.1	1.4
10°-20°	2958.0	3.8
20°-30°	4830.9	6.3
30°-40°	7194.3	9.3
40°-50°	10318.6	13.4
50°-60°	14165.8	18.3
60°-70°	17734.9	23.0
70°-80°	16043.9	20.8
80°-90°	2922.5	3.8
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°	77261.0	100.0
0°-180°	77261.0	100.0

Coefficient of Utilization

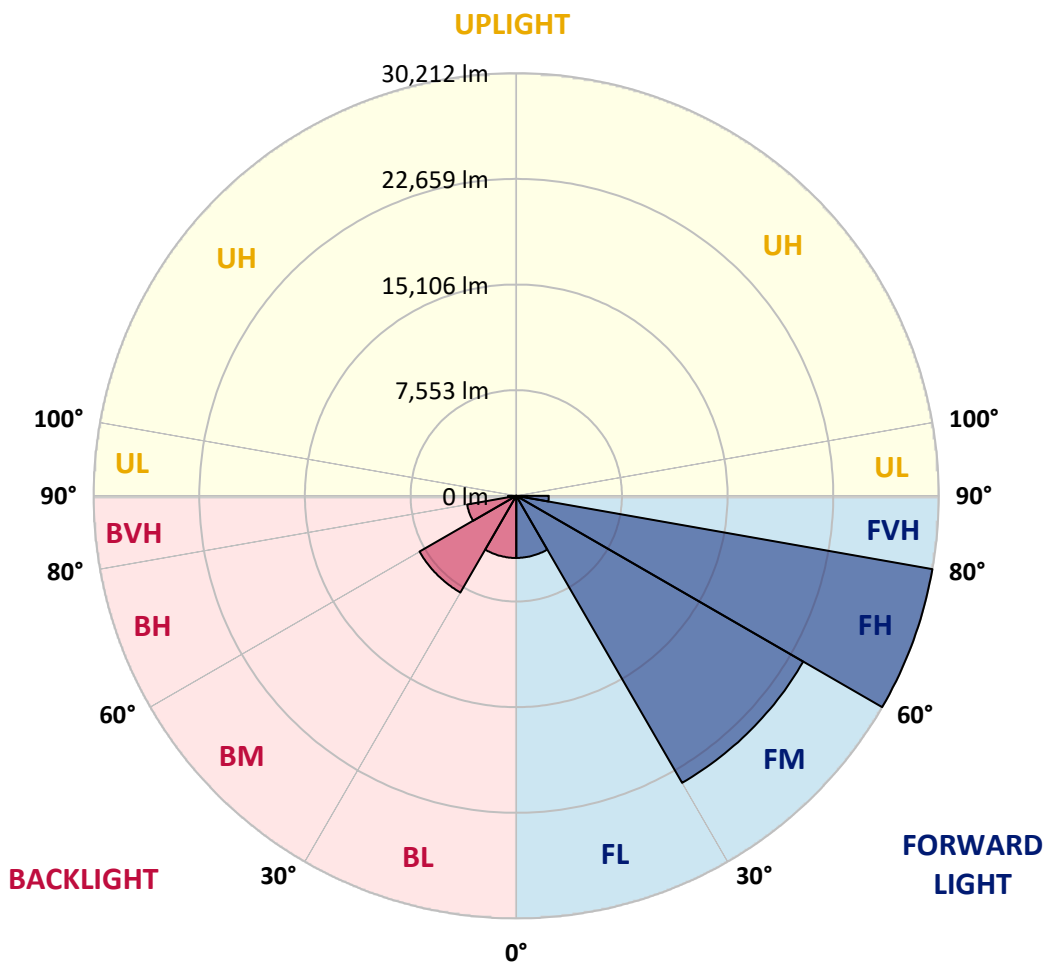


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4437.5	5.7			
FM (30°-60°)	23694.3	30.7			
FH (60°-80°)	30211.7	39.1			G5
FVH (80°-90°)	2327.5	3.0			G5
BL (0°-30°)	4443.6	5.8	B4/5000		
BM (30°-60°)	7984.3	10.3	B4/8500		
BH (60°-80°)	3567.1	4.6	B4/5000		G4/5000
BVH (80°-90°)	595.0	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3
2.5°	11214.3	11171.6	11251.7	11262.3	11331.7	11358.4	11454.5	11603.9	11726.7	11868.2	11996.3
5°	10197.5	10168.1	10280.2	10360.3	10512.4	10576.5	10803.3	11120.9	11403.8	11724.0	12014.9
7.5°	9231.4	9215.4	9340.8	9522.3	9698.4	9786.5	10178.8	10640.5	11112.9	11630.6	12076.3
10°	8417.4	8412.1	8532.2	8711.0	8969.8	9068.6	9575.7	10184.1	10846.0	11558.6	12180.4
12.5°	7961.0	7979.7	8035.8	8185.2	8425.4	8524.2	9087.3	9802.5	10621.8	11534.6	12332.5
15°	8073.1	8102.5	8006.4	8001.1	8171.9	8249.3	8777.7	9530.3	10461.7	11574.6	12554.0
17.5°	8550.8	8556.2	8302.6	8142.5	8246.6	8286.6	8681.6	9375.5	10368.3	11665.3	12831.6
20°	9223.4	9210.0	8761.7	8494.8	8550.8	8561.5	8817.7	9378.2	10360.3	11822.8	13191.9
22.5°	10114.8	10016.0	9412.9	9049.9	9036.6	9020.5	9167.3	9575.7	10477.7	12079.0	13621.6
25°	11278.4	11184.9	10355.0	9858.6	9751.8	9711.8	9733.1	9997.3	10709.9	12353.9	14101.9
27.5°	12572.7	12409.9	11609.3	10907.4	10685.9	10629.8	10501.7	10592.5	10963.4	12618.1	14673.1
30°	13656.3	13568.2	12869.0	12036.3	11774.8	11694.7	11358.4	11259.7	11329.1	12978.4	15393.6
32.5°	14262.1	14203.4	13779.0	13106.5	12863.6	12751.5	12276.5	12079.0	11916.2	13546.8	16370.4
35°	14996.0	14958.6	14702.4	14214.0	13853.7	13736.3	13368.0	13162.5	12743.5	14328.8	17632.8
37.5°	15930.1	15890.0	15895.4	15500.4	15070.7	14961.3	14718.4	14502.3	13816.4	15356.3	19004.5
40°	16986.9	16909.5	16880.2	16861.5	16589.3	16527.9	16399.8	16106.2	15161.5	16583.9	20357.6
42.5°	18577.5	18302.6	17715.5	17937.0	18206.6	18174.5	18278.6	17857.0	16656.0	18035.8	21678.7
45°	20112.1	19661.1	18646.9	18695.0	19284.8	19463.6	20242.9	19944.0	18276.0	19626.4	23045.1
47.5°	20811.3	20469.7	19607.7	19610.4	20194.8	20565.8	22273.8	22060.3	19978.6	21433.1	24713.1
50°	21593.3	21251.7	20477.7	20768.6	21278.4	21673.3	24235.4	24126.0	21598.6	23410.7	26712.0
52.5°	22447.3	21868.2	21377.1	21897.5	22612.8	23071.8	26199.6	25900.7	23085.1	25401.7	29009.9
55°	22458.0	22300.5	22674.1	23055.8	24126.0	24689.1	28257.3	27467.3	24296.8	27357.9	30880.7
57.5°	23736.3	23480.1	24272.8	24448.9	25847.3	26482.5	30304.2	28831.1	25529.8	28857.8	31889.5
60°	25428.3	25209.5	25858.0	26322.4	27977.0	28825.7	32490.0	30232.2	26498.5	29989.3	31841.5
62.5°	28350.7	28102.5	28094.5	28745.7	30974.1	31961.6	34942.6	31606.6	26882.8	30213.5	30483.1
65°	32628.8	32233.8	31489.2	31798.8	35113.4	36098.2	37683.5	32602.1	26375.8	29012.5	26984.3
67.5°	36792.1	36778.8	35863.4	36498.5	40579.1	41369.1	40806.0	32700.8	24793.2	24830.5	20776.6
70°	40942.1	40995.5	40840.7	43050.4	47963.7	48785.7	44131.3	31374.4	21235.7	17931.7	12447.3
72.5°	44230.0	44216.7	44996.0	50693.9	57547.4	57363.2	46933.5	27355.2	15246.9	9679.7	5948.8
75°	42100.3	41636.0	43957.8	54478.2	63133.2	62233.8	44550.3	19081.9	7913.0	4406.2	3202.6
77.5°	27459.3	27899.7	31307.7	45004.0	55222.8	54128.6	32684.8	8903.1	3728.3	2890.3	2321.9
80°	9944.0	10408.3	14659.7	25492.4	38046.4	37867.6	16095.5	3658.9	2522.0	2183.1	1692.0
82.5°	3421.4	3592.2	5783.3	11321.1	21481.2	22281.8	6055.5	2079.0	1833.5	1547.9	1158.3
85°	1342.4	1537.2	2644.8	5447.0	10835.3	10915.4	2452.6	1243.7	1275.7	1014.1	635.2
87.5°	509.7	619.2	1265.0	2530.0	4948.0	4545.0	878.0	592.5	725.9	603.1	301.6
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°	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3	12076.3
2.5°	12095.0	12151.1	12268.5	12348.5	12433.9	12458.0	12468.6	12490.0	12511.3	12503.3	12506.0
5°	12169.7	12279.2	12468.6	12548.7	12586.1	12543.4	12460.6	12393.9	12345.9	12319.2	12311.2
7.5°	12292.5	12447.3	12650.1	12636.8	12551.4	12361.9	12148.4	11988.3	11854.8	11806.8	11780.1
10°	12455.3	12636.8	12778.2	12626.1	12377.9	12049.6	11729.4	11481.2	11281.0	11203.6	11190.3
12.5°	12663.5	12847.6	12874.3	12551.4	12140.4	11692.0	11257.0	10928.7	10629.8	10533.8	10512.4
15°	12933.0	13106.5	12941.0	12420.6	11846.8	11243.7	10680.5	10234.9	9919.9	9802.5	9759.8
17.5°	13215.9	13381.4	12954.4	12204.4	11462.5	10712.6	10005.3	9549.0	9188.7	9052.6	9036.6
20°	13554.8	13629.6	12898.3	11894.8	10934.1	10024.0	9279.4	8849.7	8657.6	8561.5	8550.8
22.5°	13973.8	13893.8	12770.2	11475.8	10264.2	9228.7	8622.9	8422.7	8374.7	8353.3	8361.4
25°	14416.9	14171.3	12580.7	10928.7	9418.2	8433.4	8142.5	8198.6	8262.6	8254.6	8254.6
27.5°	14905.3	14454.2	12289.8	10202.8	8481.5	7782.2	7816.9	8022.4	8118.5	8115.8	8113.2
30°	15532.4	14774.5	11918.9	9330.1	7606.1	7323.2	7534.0	7784.9	7915.7	7910.3	7913.0
32.5°	16303.7	15126.8	11414.5	8356.0	6973.6	6984.3	7227.1	7475.3	7627.4	7614.1	7616.8
35°	17205.8	15521.8	10731.3	7395.2	6554.6	6714.7	6906.9	7080.3	7224.4	7205.8	7187.1
37.5°	18187.9	15908.7	9823.9	6535.9	6213.0	6463.8	6624.0	6653.3	6720.0	6672.0	6637.3
40°	19122.0	16205.0	8654.9	5831.3	5868.7	6250.3	6354.4	6237.0	6116.9	6100.9	6052.8
42.5°	19935.9	16303.7	7472.6	5268.2	5505.7	6026.2	6090.2	5844.7	5628.5	5527.1	5484.4
45°	20795.3	16338.4	6370.4	4795.8	5156.1	5826.0	5895.4	5567.1	5262.9	5044.0	4972.0
47.5°	21918.9	16589.3	5513.7	4446.2	4889.2	5692.6	5791.3	5345.6	4950.6	4638.4	4571.7
50°	23389.4	17085.7	4817.2	4179.3	4715.8	5604.5	5716.6	5129.4	4694.4	4318.1	4251.4
52.5°	25022.7	17542.0	4254.1	3963.2	4547.6	5449.7	5620.5	4974.6	4454.2	4021.9	3949.8
55°	26164.9	17192.4	3800.4	3739.0	4328.8	5228.2	5487.1	4843.9	4110.0	3733.7	3669.6
57.5°	26383.8	15996.8	3456.1	3506.8	4064.6	4950.6	5281.6	4553.0	3923.1	3608.2	3541.5
60°	25786.0	14331.5	3199.9	3293.3	3781.7	4601.0	4897.3	4347.5	3744.3	3474.8	3418.7
62.5°	24283.4	12626.1	3010.4	3101.1	3517.5	4246.1	4657.1	4131.3	3562.9	3322.7	3266.6
65°	21249.0	10600.5	2828.9	2930.3	3272.0	3939.2	4440.9	3931.1	3384.0	3199.9	3146.5
67.5°	16039.5	7939.7	2658.1	2748.9	3053.1	3672.3	4206.0	3733.7	3210.6	3093.1	3029.1
70°	9444.9	4972.0	2463.3	2559.4	2823.6	3394.7	3955.2	3517.5	2994.4	2941.0	2858.3
72.5°	4395.5	2991.7	2241.8	2335.2	2535.4	3023.8	3632.2	3234.6	2738.2	2620.8	2508.7
75°	2623.4	2188.4	1980.3	2063.0	2204.4	2628.8	3226.6	2946.4	2495.3	2340.5	2223.1
77.5°	1961.6	1673.3	1692.0	1780.1	1894.8	2300.5	2858.3	2719.5	2308.5	2188.4	2108.4
80°	1411.8	1270.3	1379.8	1475.8	1595.9	2092.3	2738.2	2514.0	2087.0	1926.9	1852.1
82.5°	942.1	912.7	1038.2	1136.9	1254.3	1830.8	2572.7	2201.8	1782.8	1579.9	1414.5
85°	520.4	549.8	699.2	741.9	843.3	1289.0	2108.4	1769.4	1342.4	1080.9	1032.8
87.5°	216.2	253.5	376.3	363.0	448.4	768.6	1387.8	1067.5	854.0	637.8	496.4
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)