

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: P319033

Luminaire Tested: **GAN-SA9A-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41371 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

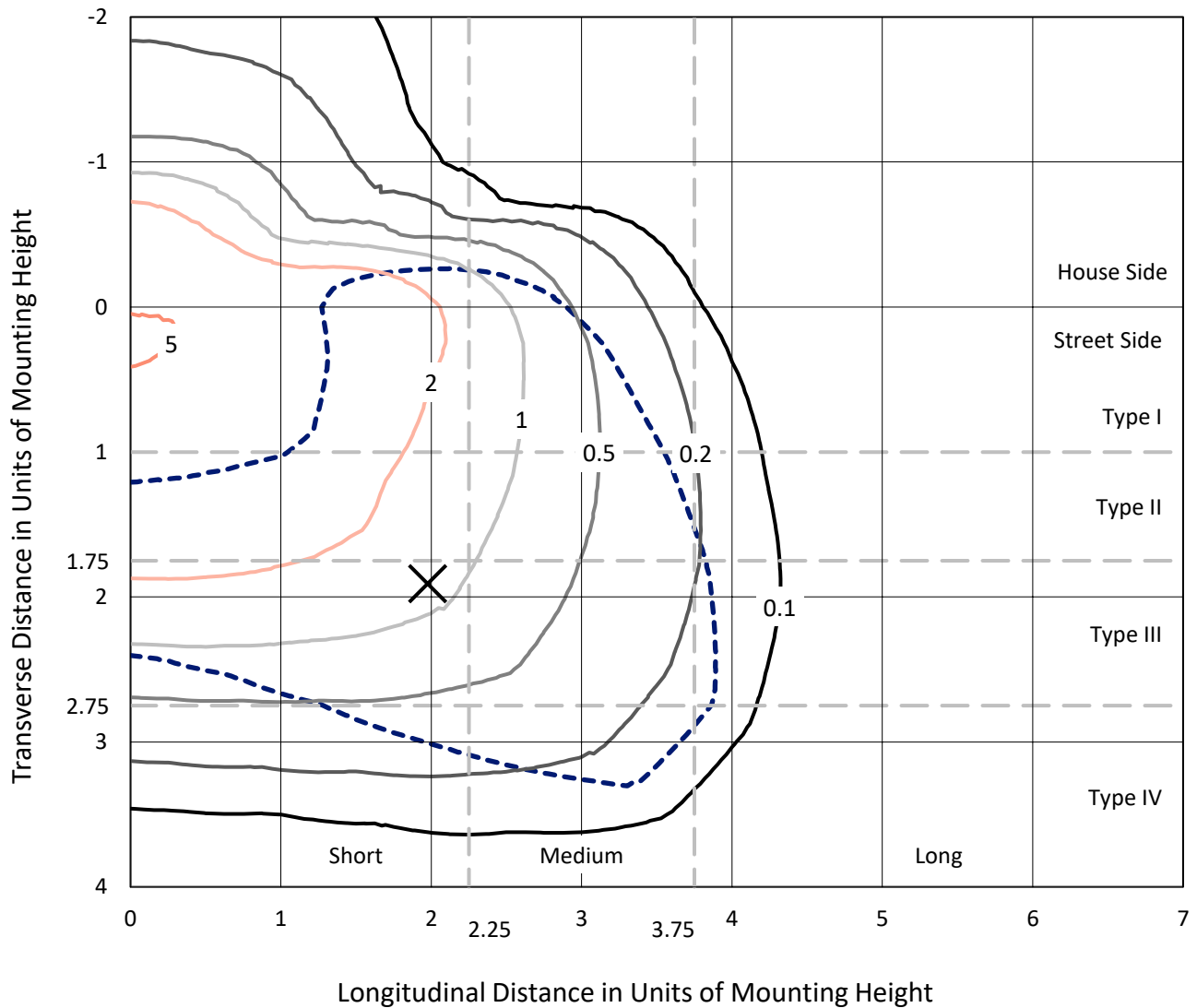
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

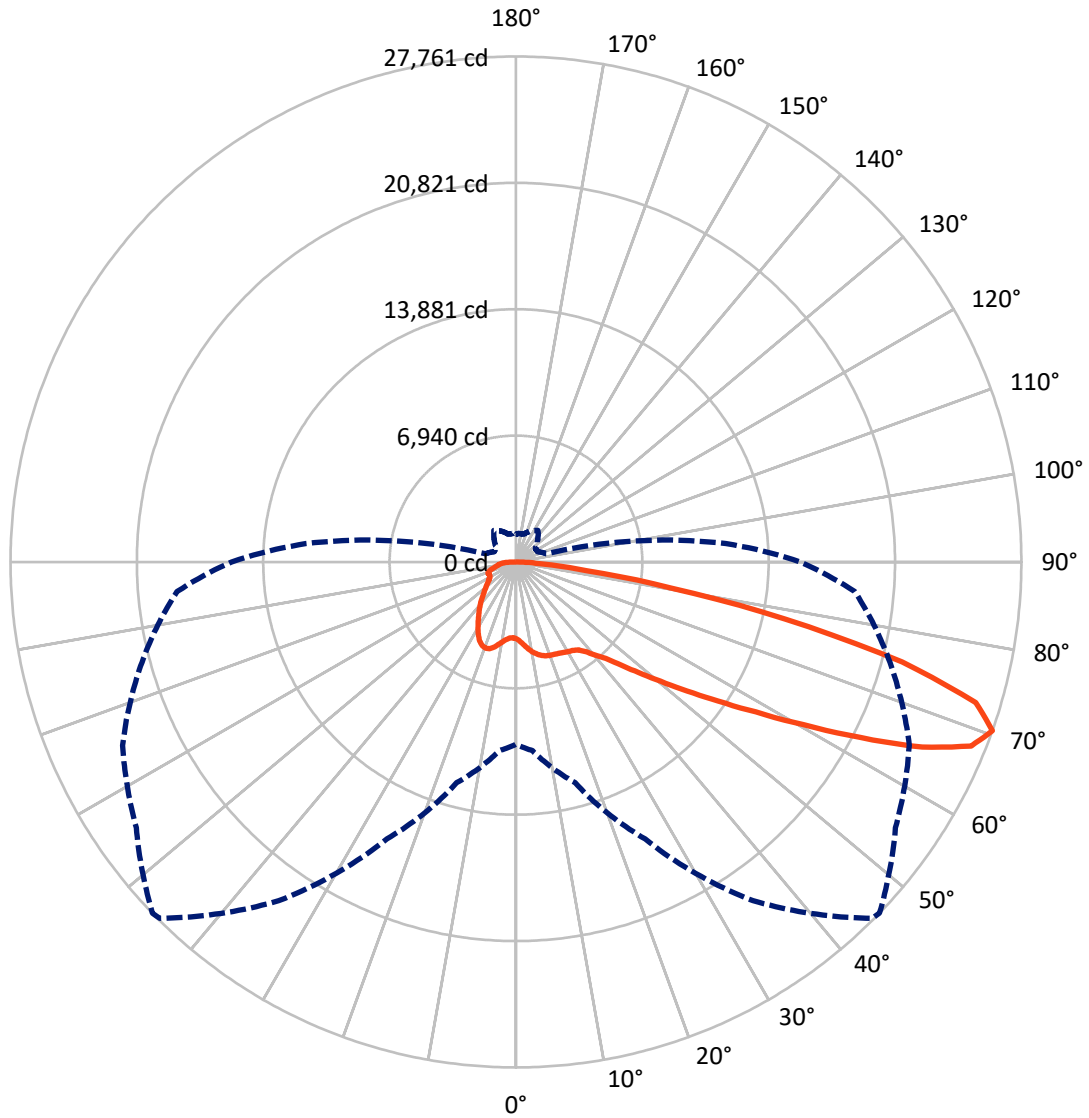
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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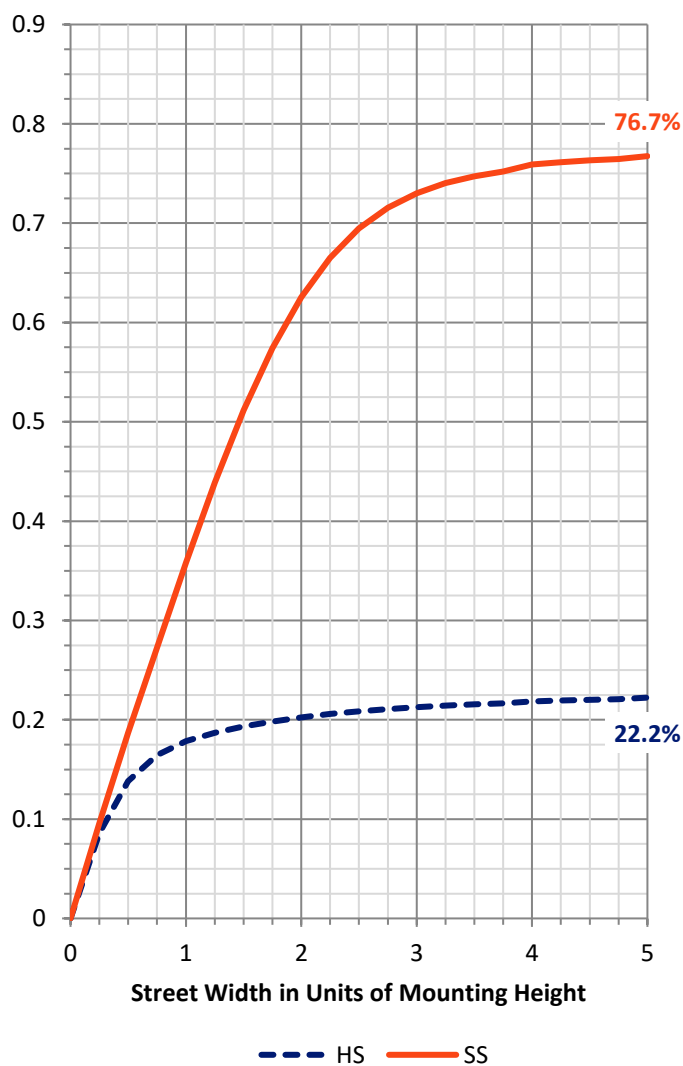
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9482.1	0.0	9482.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31888.9	0.0	31888.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	41371.0	0.0	41371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	1.0
10°-20°	1431.6	3.5
20°-30°	2387.0	5.8
30°-40°	3387.2	8.2
40°-50°	4982.4	12.0
50°-60°	8437.7	20.4
60°-70°	11977.2	29.0
70°-80°	7276.3	17.6
80°-90°	1061.9	2.6
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°	41371.0	100.0
0°-180°	41371.0	100.0

Coefficient of Utilization

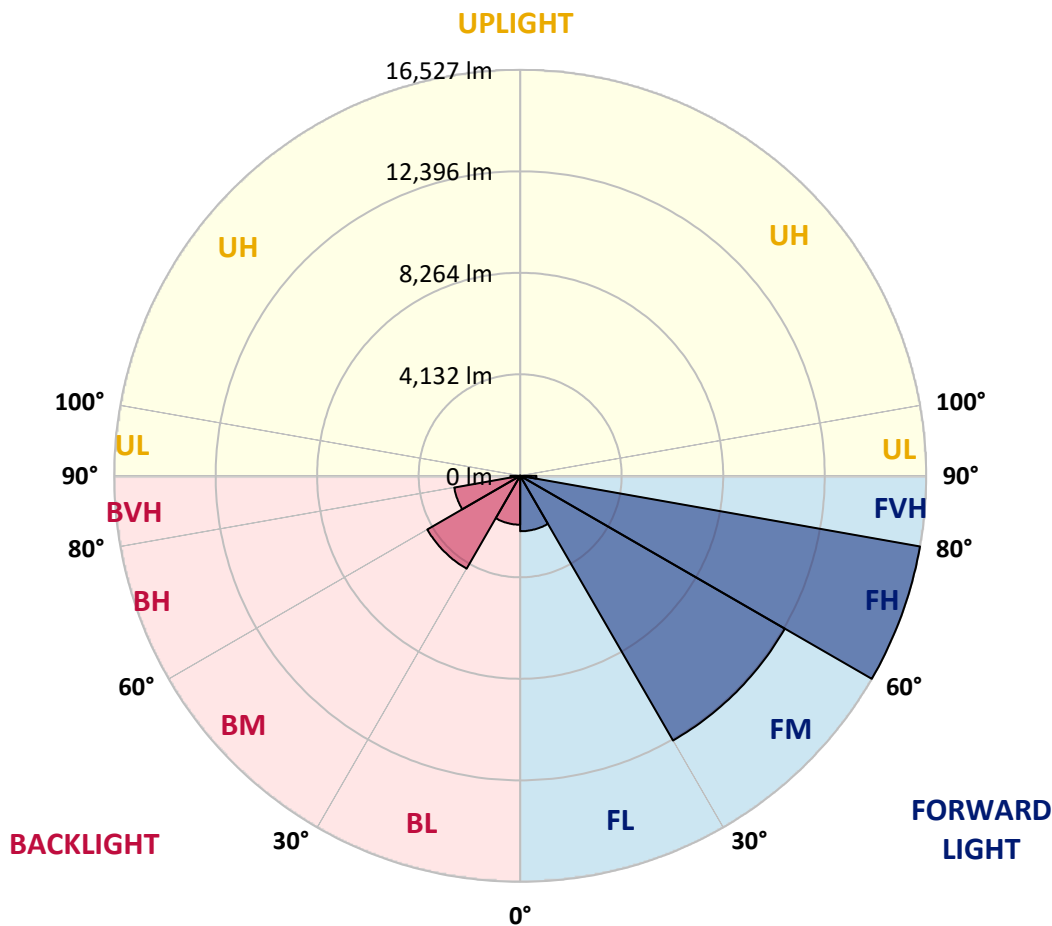


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2257.4	5.5			
FM (30°-60°)	12442.6	30.1			
FH (60°-80°)	16527.5	39.9			G5
FVH (80°-90°)	661.5	1.6			G4/750
BL (0°-30°)	1990.8	4.8	B3/2500		
BM (30°-60°)	4364.9	10.6	B3/5000		
BH (60°-80°)	2726.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	400.4	1.0			G3/500
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°	35°	45°	46°	55°	65°	75°	85°
0°	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9
2.5°	4425.9	4428.7	4434.3	4420.2	4380.5	4369.2	4365.0	4323.9	4297.0	4257.4	4223.4
5°	4779.8	4782.6	4774.1	4734.5	4646.7	4581.6	4575.9	4482.5	4397.5	4306.9	4239.0
7.5°	5149.3	5153.6	5126.7	5051.6	4928.5	4815.2	4808.1	4680.7	4551.9	4414.5	4312.6
10°	5476.4	5459.4	5415.5	5310.7	5164.9	5026.2	5020.5	4887.4	4738.7	4573.1	4437.2
12.5°	5694.4	5680.3	5623.6	5496.2	5336.2	5208.8	5197.5	5074.3	4929.9	4748.7	4585.8
15°	5814.8	5824.7	5748.2	5603.8	5448.1	5340.5	5330.6	5242.8	5113.9	4931.3	4744.4
17.5°	5830.3	5838.8	5765.2	5622.2	5494.8	5421.2	5416.9	5358.9	5265.4	5089.9	4894.5
20°	5739.7	5745.4	5684.5	5567.0	5483.5	5460.8	5459.4	5433.9	5364.5	5208.8	5019.1
22.5°	5608.1	5612.3	5568.4	5483.5	5455.2	5490.5	5500.5	5490.5	5441.0	5295.2	5116.8
25°	5575.5	5572.7	5527.4	5441.0	5465.1	5540.1	5552.8	5557.1	5523.1	5395.7	5241.4
27.5°	5732.7	5722.7	5636.4	5497.6	5513.2	5603.8	5620.8	5661.9	5640.6	5528.8	5382.9
30°	6187.1	6170.1	5993.2	5712.8	5636.4	5683.1	5704.3	5769.5	5773.7	5680.3	5571.3
32.5°	6954.5	6933.3	6616.1	6114.9	5844.5	5763.8	5783.6	5881.3	5933.7	5861.5	5744.0
35°	7924.3	7900.3	7484.0	6798.8	6192.8	5918.1	5932.3	6010.2	6114.9	6013.0	5857.2
37.5°	8935.2	8877.2	8476.5	7603.0	6746.4	6248.0	6248.0	6257.9	6307.5	6095.1	5990.3
40°	9940.5	9882.4	9520.0	8548.7	7462.8	6767.6	6735.1	6515.6	6476.0	6293.3	6257.9
42.5°	10874.9	10857.9	10644.1	9617.7	8303.8	7278.7	7233.4	6861.1	6869.6	6756.3	6757.7
45°	11868.8	11868.8	11694.7	10696.5	9283.5	8099.9	8054.6	7506.7	7591.6	7539.2	7665.2
47.5°	12680.1	12705.6	12681.5	11820.7	10423.3	9143.4	9061.2	8401.5	8639.3	8819.1	9185.8
50°	13508.3	13548.0	13552.2	13053.9	11800.9	10383.6	10290.2	9589.3	10120.3	10635.6	11356.3
52.5°	14710.4	14799.6	14444.2	14284.2	13488.5	11856.1	11764.0	11117.0	12003.3	12726.8	13968.5
55°	15824.6	15746.7	15493.3	15592.4	15295.1	13532.4	13463.0	12895.3	14101.6	15041.7	16654.3
57.5°	16427.8	16422.1	16676.9	17101.7	17243.3	15599.5	15541.5	14989.3	16467.4	17173.9	19175.9
60°	17135.7	17145.6	17777.0	18741.2	19324.5	18173.5	18148.0	17728.9	18765.3	19164.5	21153.8
62.5°	17234.8	17413.2	18500.5	20159.9	21272.7	21180.7	21237.3	20196.7	20821.0	20753.1	22630.5
65°	16095.0	16330.1	18298.1	20588.8	23209.5	24469.6	24522.0	22678.6	22442.2	22110.9	23158.6
67.5°	13758.9	14107.2	16245.1	19655.8	23848.1	26900.6	26974.2	24602.7	23787.2	22571.0	21887.2
70°	10012.7	10399.2	12551.2	16787.4	22709.7	27677.9	27761.4	25453.6	23838.2	21261.4	18684.6
72.5°	6048.4	6351.4	8125.4	12358.7	19167.4	26262.0	26410.7	24374.8	21764.0	18009.2	13797.2
75°	2656.1	2854.3	3928.9	7121.6	13722.1	21728.6	21914.1	20863.5	17683.6	13087.8	8155.1
77.5°	1131.2	1187.9	1611.2	3093.6	7757.3	14847.7	15102.5	15244.1	11997.7	7121.6	3446.1
80°	705.1	727.7	911.8	1400.2	3630.2	8339.2	8613.8	8969.2	5957.8	2617.9	1203.4
82.5°	429.0	454.5	606.0	846.7	1890.1	3780.2	3911.9	4162.5	2312.0	1131.2	623.0
85°	257.7	276.1	370.9	535.2	1076.0	1486.6	1485.2	1642.4	1088.8	727.7	328.5
87.5°	123.2	137.3	198.2	277.5	542.3	557.8	522.4	591.8	661.2	477.1	165.7
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°	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9	4214.9
2.5°	4212.1	4206.4	4188.0	4173.8	4171.0	4162.5	4155.4	4159.7	4165.3	4166.8	4166.8
5°	4210.6	4195.1	4171.0	4161.1	4173.8	4190.8	4212.1	4240.4	4257.4	4270.1	4278.6
7.5°	4278.6	4248.9	4222.0	4216.3	4241.8	4287.1	4335.2	4394.7	4435.8	4464.1	4469.7
10°	4391.9	4355.1	4328.2	4333.8	4379.1	4444.3	4512.2	4588.7	4651.0	4689.2	4692.0
12.5°	4522.1	4486.7	4461.2	4485.3	4560.4	4639.6	4710.4	4777.0	4833.6	4871.8	4871.8
15°	4672.2	4646.7	4617.0	4672.2	4774.1	4844.9	4874.7	4907.2	4938.4	4966.7	4961.0
17.5°	4816.6	4792.5	4777.0	4842.1	4948.3	4980.9	4961.0	4937.0	4937.0	4952.5	4955.4
20°	4941.2	4920.0	4929.9	4993.6	5048.8	5014.8	4941.2	4864.8	4833.6	4842.1	4850.6
22.5°	5050.2	5040.3	5070.1	5099.8	5060.1	4941.2	4805.3	4701.9	4663.7	4660.9	4663.7
25°	5177.7	5176.2	5213.0	5159.2	4983.7	4764.2	4581.6	4481.1	4459.8	4476.8	4505.1
27.5°	5336.2	5351.8	5370.2	5173.4	4827.9	4496.6	4311.2	4241.8	4263.0	4304.1	4331.0
30°	5538.7	5581.2	5541.5	5138.0	4604.2	4190.8	4013.8	3994.0	4052.1	4110.1	4138.4
32.5°	5735.5	5802.0	5705.8	5046.0	4315.4	3866.6	3729.3	3723.6	3794.4	3851.0	3890.7
35°	5894.1	6025.7	5828.9	4863.3	3981.3	3567.9	3467.3	3429.1	3454.6	3521.1	3566.4
37.5°	6100.8	6320.2	5913.9	4584.4	3618.8	3321.5	3204.0	3116.2	3093.6	3120.5	3143.1
40°	6478.8	6769.0	5953.5	4195.1	3264.9	3075.2	2956.2	2827.4	2738.2	2673.1	2674.5
42.5°	7096.1	7353.8	5928.0	3722.2	2937.8	2834.5	2700.0	2551.3	2406.9	2259.6	2248.3
45°	8098.5	8223.1	5851.6	3221.0	2650.4	2582.5	2456.4	2307.8	2115.2	1948.2	1932.6
47.5°	9702.6	9426.5	5732.7	2783.5	2397.0	2368.7	2252.6	2081.3	1877.4	1742.9	1731.5
50°	11890.1	11163.7	5674.6	2435.2	2173.3	2181.8	2086.9	1905.7	1713.1	1614.0	1602.7
52.5°	14506.5	13186.9	5786.5	2166.2	1993.5	2023.2	1952.4	1782.5	1621.1	1543.2	1531.9
55°	17220.6	15282.4	5906.8	1970.8	1823.6	1881.6	1857.6	1717.4	1571.6	1499.4	1489.4
57.5°	19544.0	16846.8	5666.1	1812.2	1672.1	1762.7	1783.9	1676.3	1546.1	1480.9	1469.6
60°	21006.5	17476.9	5034.7	1663.6	1551.7	1667.8	1741.5	1665.0	1556.0	1550.3	1541.8
62.5°	21700.3	17421.7	4087.5	1546.1	1476.7	1626.8	1772.6	1728.7	1669.3	1720.2	1724.5
65°	21388.8	16589.2	3044.0	1468.2	1422.9	1642.4	1866.1	1849.1	1701.8	1752.8	1759.9
67.5°	19338.7	14602.8	2254.0	1400.2	1363.4	1686.2	2035.9	1888.7	1638.1	1674.9	1652.3
70°	15630.6	11577.2	1738.6	1323.8	1302.6	1680.6	2112.4	1864.6	1568.7	1577.2	1516.3
72.5°	10778.6	7894.6	1414.4	1253.0	1214.8	1531.9	2058.6	1805.2	1510.7	1445.6	1364.9
75°	5861.5	4237.5	1202.0	1179.4	1060.4	1345.0	1959.5	1762.7	1458.3	1371.9	1326.6
77.5°	2306.4	1758.4	1043.5	1078.9	927.4	1187.9	1849.1	1682.0	1386.1	1272.8	1250.2
80°	941.5	897.6	865.1	933.0	797.1	1039.2	1716.0	1587.1	1299.7	1180.8	1135.5
82.5°	533.8	557.8	672.5	736.2	647.0	957.1	1652.3	1510.7	1196.4	1057.6	1003.8
85°	273.3	327.1	468.6	528.1	475.7	814.1	1522.0	1322.4	959.9	809.8	814.1
87.5°	131.7	182.6	295.9	331.3	308.6	589.0	1136.9	958.5	747.6	591.8	573.4
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)