

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: P320008

Luminaire Tested: **GAN-SA4C-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320008
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-SA4C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 27112 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

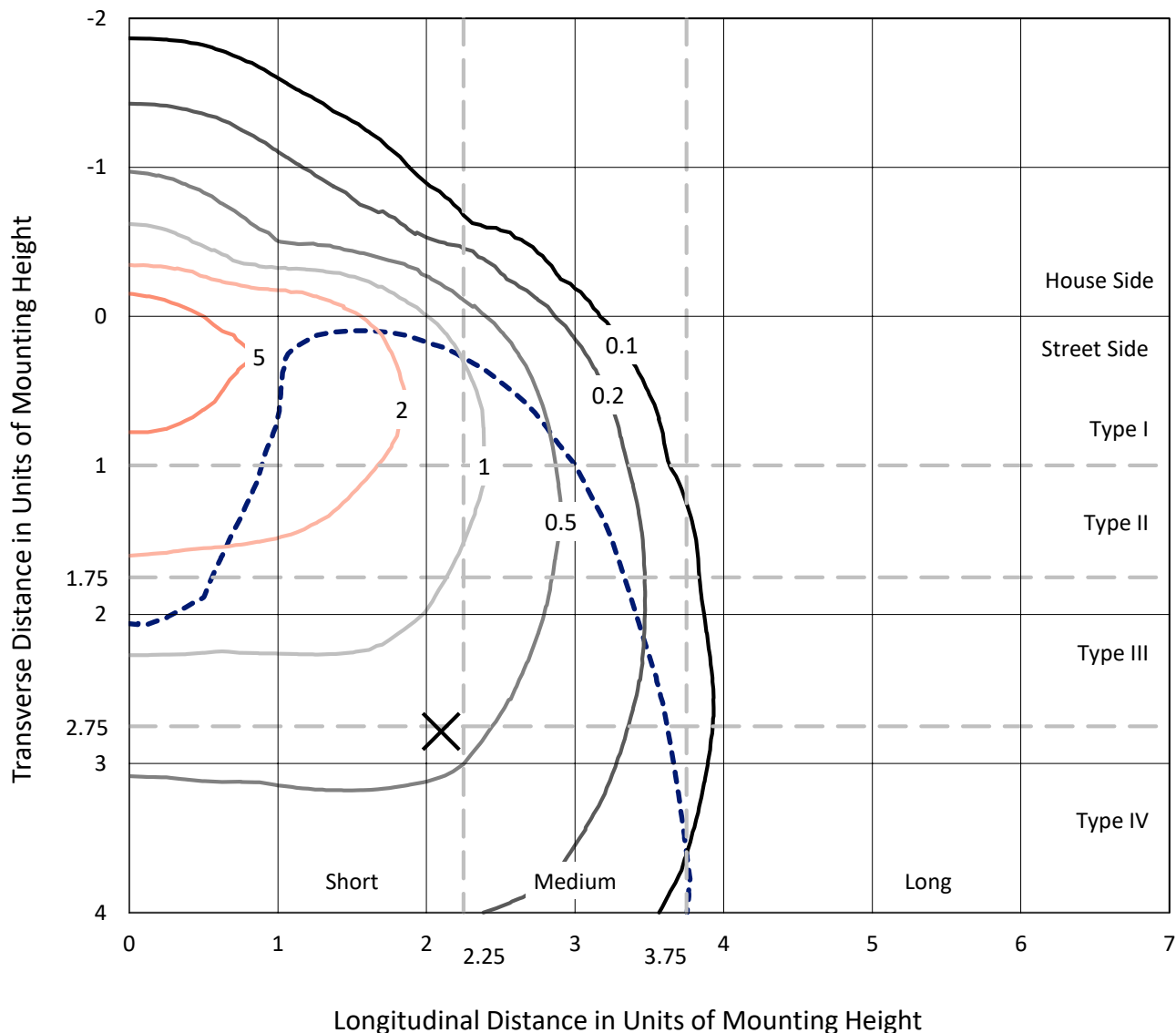
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

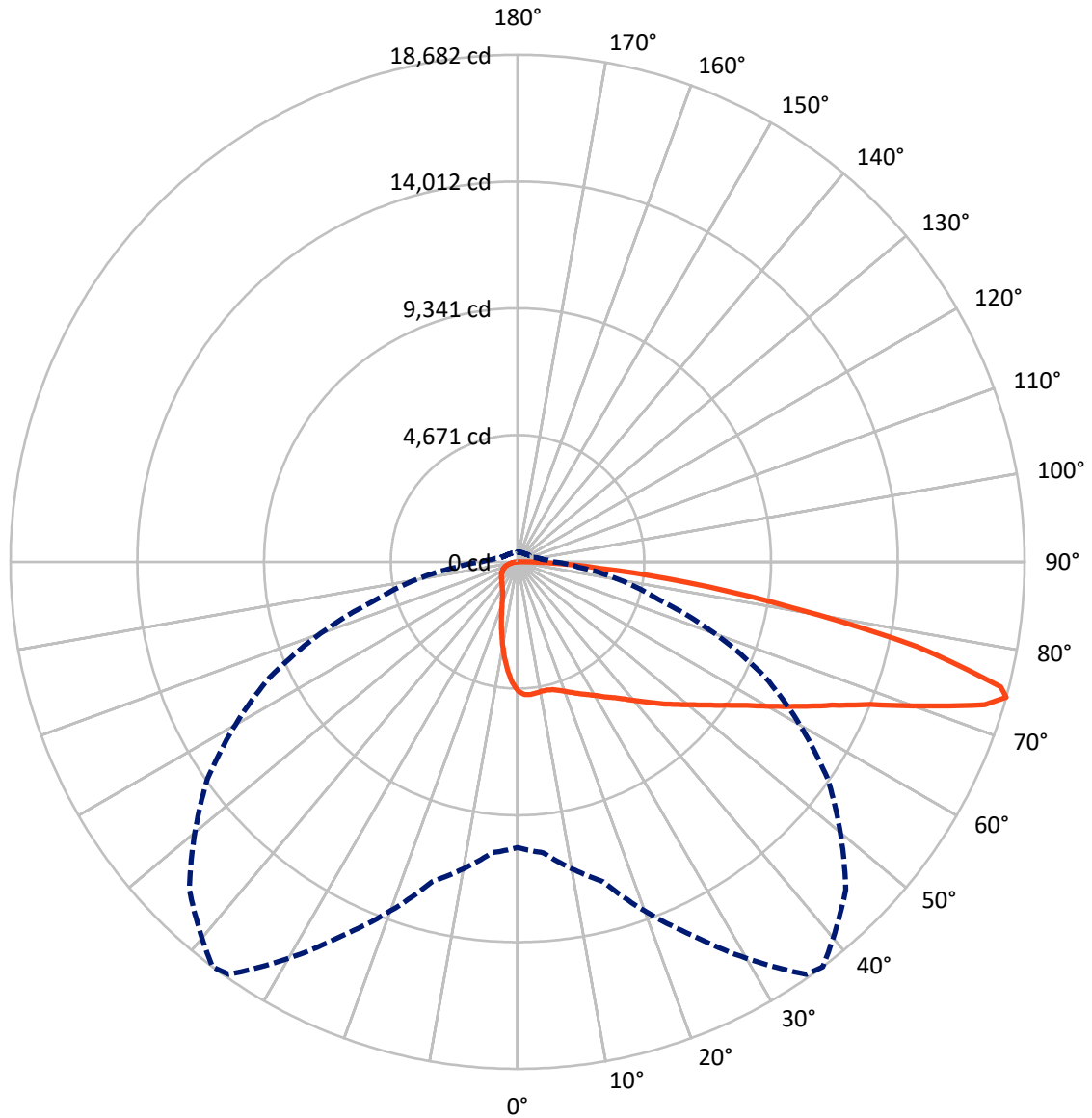
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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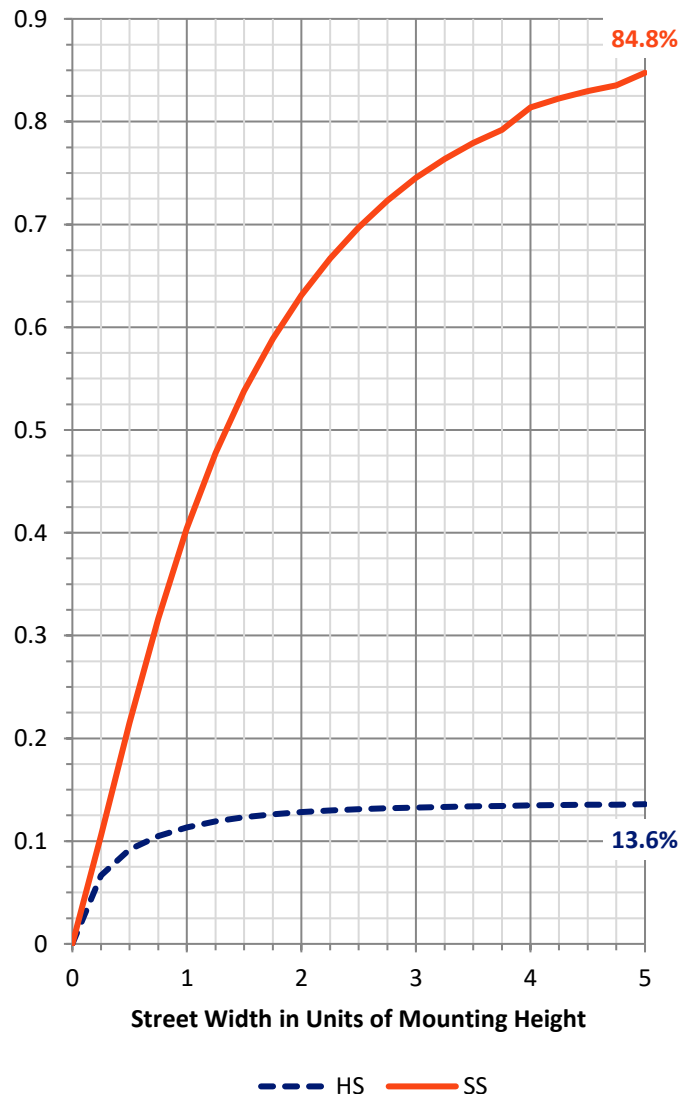
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3730.4	0.0	3730.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	23381.6	0.0	23381.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	27112.0	0.0	27112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.7	1.6
10°-20°	1078.3	4.0
20°-30°	1661.4	6.1
30°-40°	2416.0	8.9
40°-50°	3555.9	13.1
50°-60°	4993.6	18.4
60°-70°	6320.4	23.3
70°-80°	5565.3	20.5
80°-90°	1100.4	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°	27112.0	100.0
0°-180°	27112.0	100.0

Coefficient of Utilization

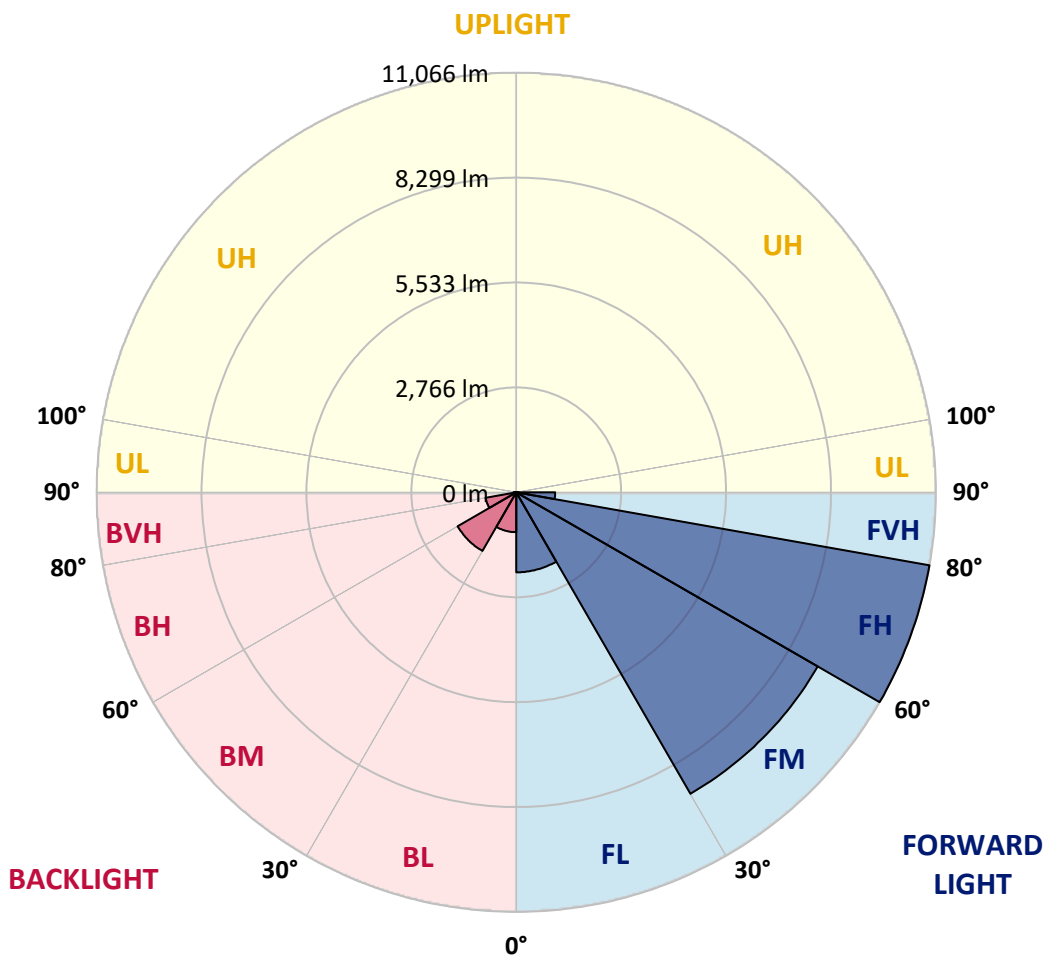


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2109.6	7.8			
FM (30°-60°)	9180.3	33.9			
FH (60°-80°)	11065.7	40.8			G4/12000
FVH (80°-90°)	1025.9	3.8			G5
BL (0°-30°)	1050.8	3.9	B3/2500		
BM (30°-60°)	1785.1	6.6	B2/2500		
BH (60°-80°)	820.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	74.5	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°	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0
2.5°	4940.3	4941.3	4940.3	4932.7	4914.6	4899.3	4886.9	4868.7	4828.6	4798.0	4752.2
5°	4987.1	4981.4	4977.6	4963.3	4934.6	4917.4	4893.5	4859.2	4793.3	4732.1	4657.7
7.5°	4965.2	4958.5	4949.9	4932.7	4900.2	4885.9	4852.5	4807.6	4728.3	4648.1	4541.1
10°	4897.4	4895.5	4891.6	4887.8	4860.1	4848.7	4818.1	4770.3	4692.0	4594.6	4469.5
12.5°	4821.9	4826.7	4842.0	4862.0	4849.6	4843.9	4824.8	4792.3	4712.1	4607.0	4456.1
15°	4774.2	4787.5	4828.6	4881.1	4891.6	4889.7	4884.9	4863.9	4778.9	4662.4	4486.7
17.5°	4757.9	4779.9	4858.2	4945.1	4975.7	4982.4	4984.3	4948.0	4853.4	4730.2	4518.2
20°	4787.5	4815.2	4929.8	5049.2	5097.9	5101.7	5093.1	5030.1	4924.1	4788.5	4535.4
22.5°	4877.3	4902.1	5045.4	5180.0	5235.4	5241.2	5215.4	5119.9	4998.6	4857.3	4559.3
25°	5050.2	5080.7	5224.0	5358.6	5387.3	5388.2	5351.0	5232.6	5096.0	4953.7	4610.9
27.5°	5275.6	5306.1	5435.0	5566.8	5551.6	5543.0	5492.3	5373.9	5223.0	5086.5	4702.5
30°	5526.7	5560.1	5682.4	5776.0	5739.7	5722.5	5681.4	5528.6	5399.7	5267.9	4842.9
32.5°	5786.5	5817.1	5924.0	5988.0	5942.2	5934.5	5872.4	5733.0	5629.9	5544.9	5070.2
35°	6052.9	6074.9	6180.0	6216.3	6155.1	6153.2	6136.0	6008.1	5943.1	5983.2	5400.7
37.5°	6325.1	6330.9	6420.6	6422.5	6404.4	6412.0	6430.2	6350.0	6368.1	6493.2	5830.4
40°	6567.7	6583.0	6647.9	6668.0	6699.5	6726.2	6817.0	6764.4	6904.8	7126.4	6365.2
42.5°	6747.2	6776.8	6880.9	6932.5	7034.7	7076.7	7204.7	7253.4	7536.1	7868.4	7001.3
45°	6899.1	6944.9	7112.1	7218.1	7390.9	7464.5	7647.8	7811.1	8249.5	8673.5	7670.8
47.5°	7063.4	7121.6	7330.8	7533.2	7768.2	7851.3	8184.6	8429.0	9010.7	9483.4	8302.0
50°	7305.0	7349.9	7554.2	7872.3	8165.5	8272.4	8733.7	9084.2	9784.2	10255.0	8849.3
52.5°	7642.1	7624.9	7797.8	8243.8	8637.2	8769.0	9320.1	9781.4	10568.3	10953.2	9311.5
55°	7981.1	7952.5	8073.8	8632.5	9187.3	9325.8	9965.7	10481.4	11314.2	11581.6	9665.8
57.5°	8358.4	8303.9	8406.1	9070.8	9813.8	9979.0	10688.6	11225.4	12047.6	12089.6	9891.2
60°	8747.1	8673.5	8788.1	9614.2	10609.4	10804.2	11534.8	11951.2	12739.1	12496.5	9963.8
62.5°	9087.1	9035.5	9212.2	10220.7	11506.1	11720.1	12365.6	12722.8	13421.0	12665.5	9702.1
65°	9384.1	9392.7	9698.3	10902.6	12506.0	12734.3	13318.8	13674.0	13957.7	12565.2	9089.9
67.5°	9738.4	9787.1	10308.5	11800.3	13764.8	14015.0	14705.5	14711.2	14257.6	11977.0	7884.7
70°	10255.0	10355.3	11148.0	13045.6	15554.5	15898.3	16431.2	15320.5	13836.4	10382.1	6203.8
72.5°	10713.5	10900.6	12040.9	14470.5	17735.7	17996.5	17440.6	14969.0	12076.3	7780.6	3865.0
74°	10527.2	10759.3	12203.3	15172.5	18557.1	18682.2	17099.7	13943.3	10068.8	5388.2	2246.2
75°	10126.1	10378.2	11966.4	15165.8	18453.0	18383.3	16276.5	12771.5	8292.5	3674.9	1494.6
77.5°	8172.1	8438.6	10083.1	12997.9	15130.4	15064.5	12503.2	8567.5	3632.0	1205.2	759.2
80°	4751.2	4954.7	6259.2	8254.3	10202.5	10321.9	8222.8	4239.4	1428.7	677.1	514.8
82.5°	2110.6	2251.0	3023.6	4213.6	6157.0	6310.8	4306.2	2221.4	882.4	411.6	309.4
85°	1384.8	1488.9	1835.6	2006.5	2931.9	3037.0	2107.7	1729.5	582.6	226.3	227.3
87.5°	996.1	1096.4	1363.8	1190.9	1345.6	1274.0	1147.0	1600.6	234.0	128.9	76.4
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°	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0	4777.0
2.5°	4732.1	4716.9	4682.5	4617.5	4581.2	4550.7	4500.1	4470.5	4457.1	4456.1	4461.9
5°	4614.7	4579.3	4490.5	4381.6	4294.7	4215.5	4117.1	4057.9	4015.9	3991.0	3997.7
7.5°	4478.1	4422.7	4283.3	4109.5	3970.0	3816.3	3664.4	3573.7	3503.0	3450.5	3460.1
10°	4384.5	4308.1	4104.7	3854.5	3622.4	3398.9	3189.8	3064.7	2965.3	2888.9	2894.7
12.5°	4353.0	4249.9	3968.1	3633.9	3308.2	3002.6	2729.5	2537.5	2435.3	2348.4	2355.1
15°	4357.8	4219.3	3853.5	3435.2	3025.5	2640.6	2309.2	2084.8	1946.3	1886.2	1887.1
17.5°	4361.6	4184.0	3733.2	3222.3	2745.7	2302.6	1942.5	1715.2	1584.4	1529.0	1529.9
20°	4349.2	4126.7	3584.2	2977.8	2453.5	1992.2	1643.6	1450.7	1351.4	1308.4	1308.4
22.5°	4332.9	4058.9	3416.1	2732.3	2165.0	1722.9	1429.7	1282.6	1225.3	1196.6	1195.7
25°	4340.6	4008.2	3244.2	2480.2	1899.5	1508.0	1287.4	1190.0	1151.8	1133.6	1132.7
27.5°	4381.6	3984.4	3085.7	2229.0	1667.5	1346.6	1191.9	1123.1	1098.3	1086.8	1086.8
30°	4456.1	3984.4	2920.5	2015.1	1474.6	1227.2	1118.3	1071.5	1054.3	1046.7	1046.7
32.5°	4586.0	4006.3	2761.0	1803.1	1320.8	1133.6	1057.2	1025.7	1012.3	1008.5	1008.5
35°	4809.5	4080.8	2605.3	1602.5	1196.6	1057.2	999.0	980.8	971.3	970.3	973.2
37.5°	5123.7	4232.7	2459.2	1454.5	1108.8	995.1	950.2	935.9	930.2	935.0	938.8
40°	5519.1	4439.0	2326.4	1320.8	1041.9	945.5	905.4	895.8	892.9	899.6	905.4
42.5°	5996.6	4717.8	2217.6	1224.3	990.4	903.5	867.2	855.7	852.8	860.5	868.1
45°	6513.3	5017.7	2141.2	1152.7	950.2	871.9	833.7	821.3	815.6	819.4	828.0
47.5°	6983.1	5301.3	2110.6	1102.1	912.0	845.2	804.1	788.8	779.3	777.4	784.1
50°	7379.5	5512.4	2124.9	1071.5	881.5	815.6	775.5	758.3	744.0	735.4	740.1
52.5°	7667.9	5645.1	2138.3	1058.2	857.6	783.1	744.0	727.7	708.6	694.3	694.3
55°	7877.0	5675.7	2108.7	1047.7	839.5	747.8	708.6	693.3	674.2	658.0	656.1
57.5°	7959.2	5589.8	1998.9	1032.4	827.1	714.4	671.4	659.9	643.7	624.6	623.6
60°	7848.4	5324.3	1786.8	999.9	810.8	686.7	634.1	626.5	618.9	600.7	599.8
62.5°	7403.3	4741.7	1512.8	934.0	778.3	657.1	599.8	603.6	604.5	592.1	590.2
65°	6596.3	3941.4	1245.4	848.1	729.6	621.7	564.4	582.6	593.1	591.2	588.3
67.5°	5423.6	3067.5	1055.3	757.3	665.7	573.0	526.2	547.2	555.8	562.5	560.6
70°	4025.4	2163.1	872.9	661.8	588.3	515.7	476.6	487.1	481.3	489.0	491.8
72.5°	2244.3	1297.9	711.5	566.3	508.1	448.9	421.2	419.3	406.8	406.8	406.8
74°	1346.6	952.2	625.5	507.1	459.4	404.9	381.1	372.5	361.0	362.0	361.0
75°	1083.0	818.5	574.0	468.0	425.0	379.1	355.3	343.8	335.2	335.2	334.3
77.5°	683.8	621.7	462.2	372.5	340.0	312.3	296.1	280.8	280.8	279.8	278.9
80°	516.7	494.7	360.0	281.7	260.7	239.7	229.2	222.5	222.5	225.4	224.4
82.5°	354.3	372.5	253.1	196.7	186.2	170.9	169.0	170.0	167.1	163.3	162.4
85°	258.8	279.8	170.9	124.2	113.6	104.1	111.7	115.6	110.8	102.2	98.4
87.5°	99.3	183.4	91.7	51.6	47.8	41.1	47.8	49.7	53.5	42.0	43.0
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)