

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: P478808

Luminaire Tested: **IFLD-L-SA7D-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478808  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

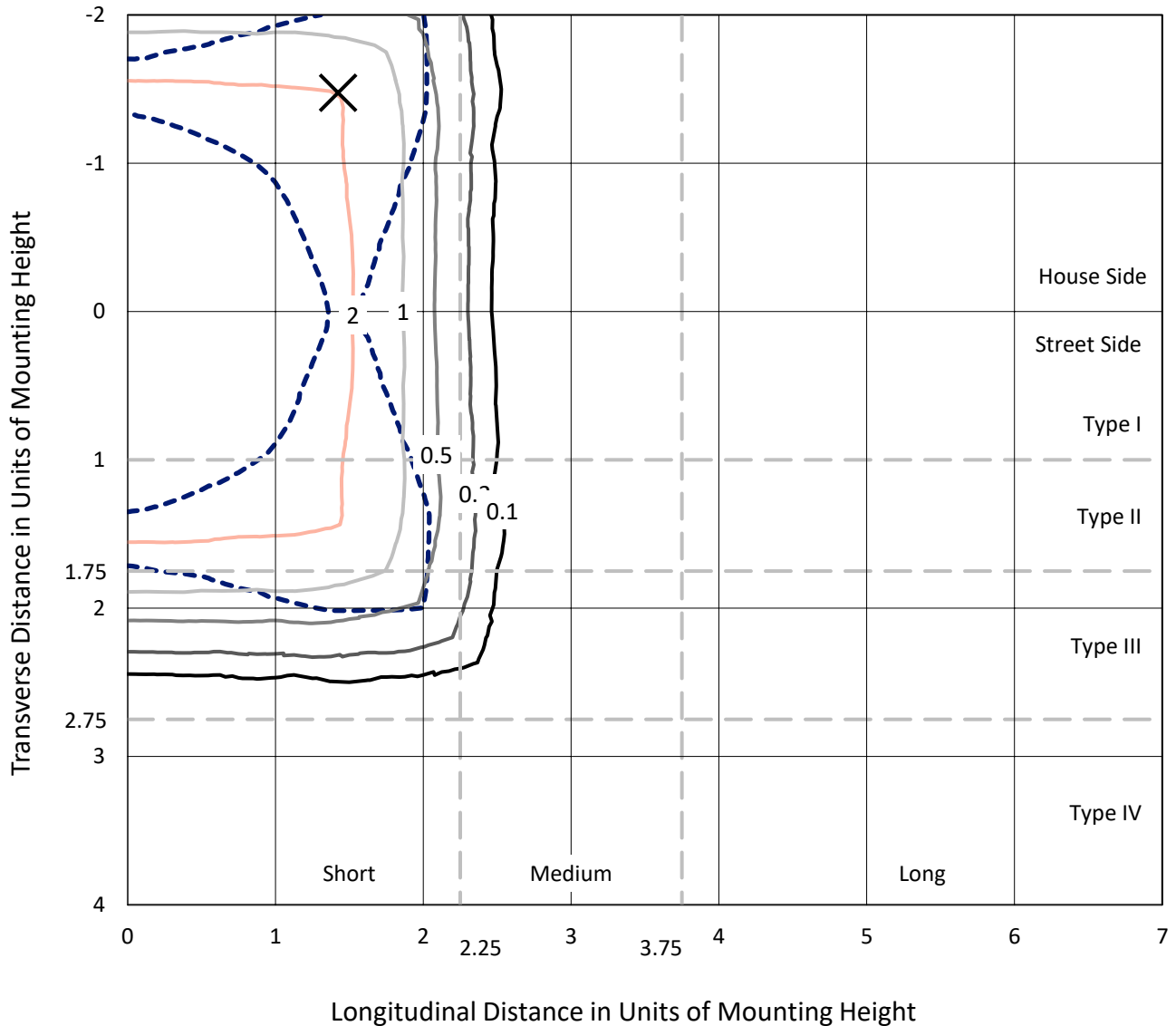
Lumens per Lamp: N/A  
Luminaire Lumens: 35836.3 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 422.6  
Input Voltage (V): 120  
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

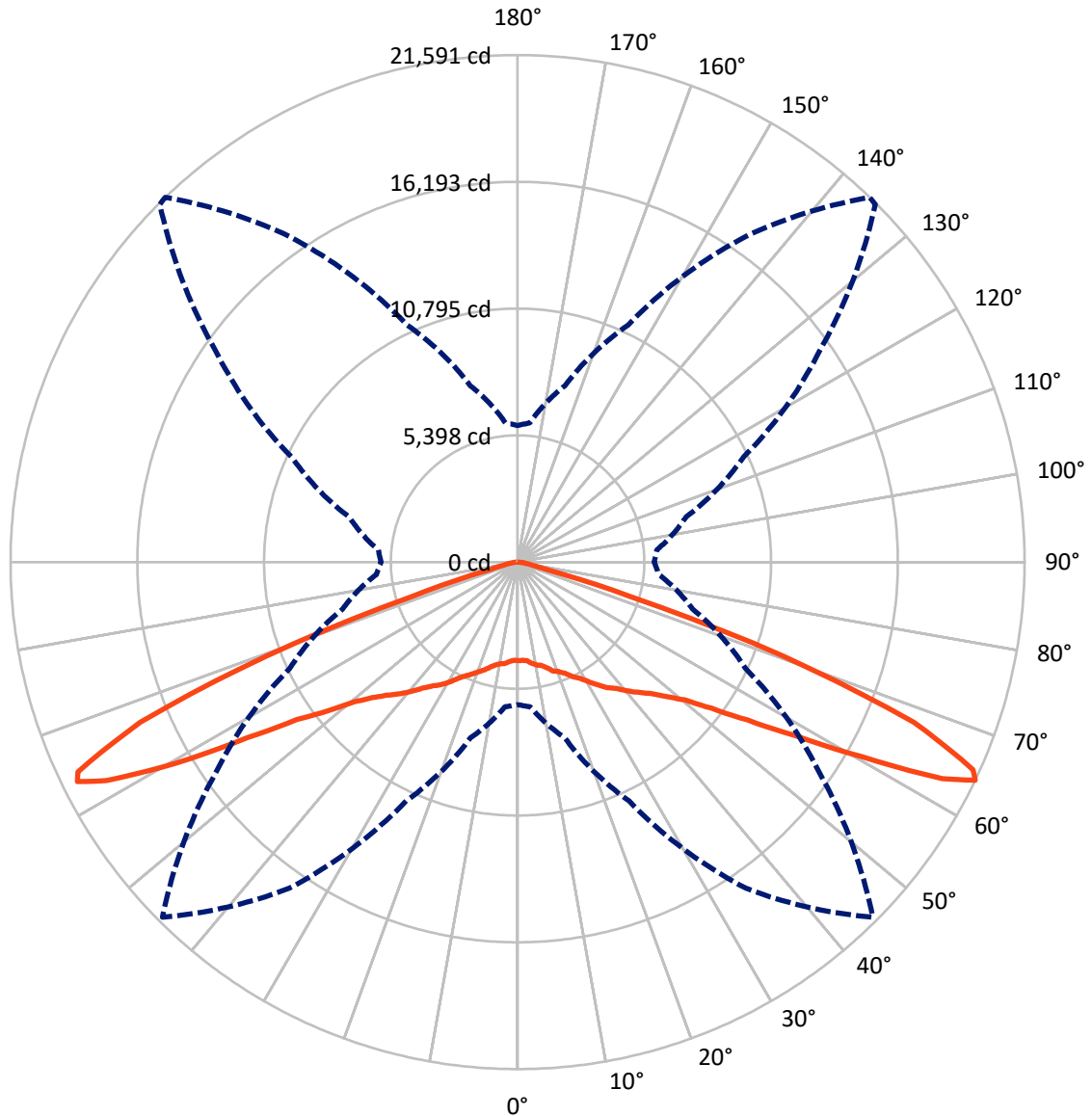
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P478808  
CATALOG NUMBER: IFLD-L-SA7D-722-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: IFLD-L-SA7D-722-U-5NQ

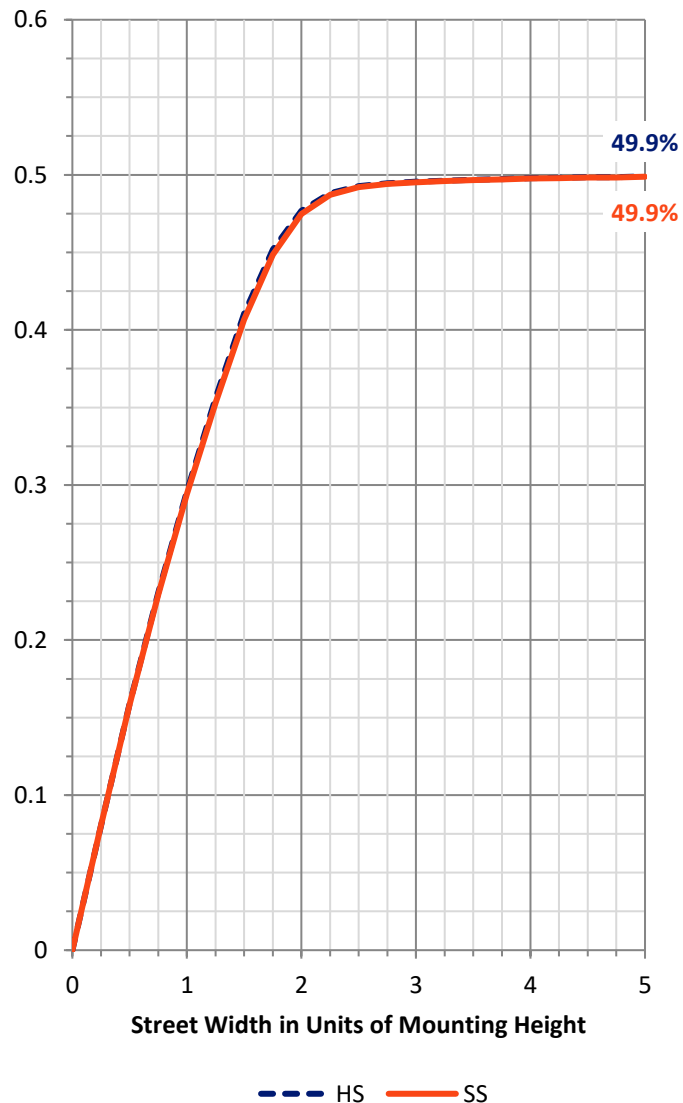
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17935.2	0.0	17935.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17901.1	0.0	17901.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35836.3	0.0	35836.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.3	1.2
10°-20°	1328.7	3.7
20°-30°	2497.2	7.0
30°-40°	4118.3	11.5
40°-50°	6440.7	18.0
50°-60°	10406.7	29.0
60°-70°	9370.5	26.1
70°-80°	1110.0	3.1
80°-90°	151.9	0.4
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°	35836.3	100.0
0°-180°	35836.3	100.0

**Coefficient of Utilization**



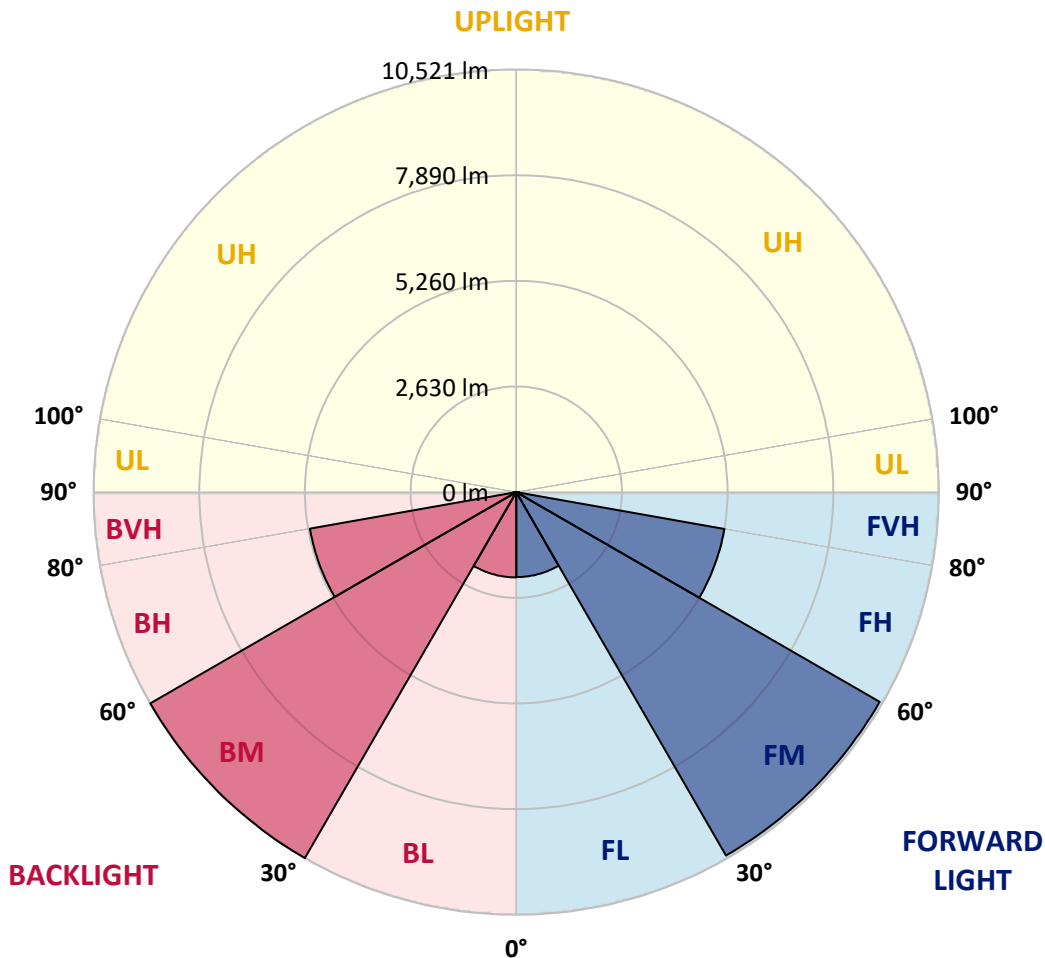
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 CATALOG NUMBER: IFLD-L-SA7D-722-U-5NQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.0	5.9			
FM (30°-60°)	10445.2	29.1			
FH (60°-80°)	5263.0	14.7			G3/7500
FVH (80°-90°)	77.9	0.2			G1/100
BL (0°-30°)	2123.2	5.9	B3/2500		
BM (30°-60°)	10520.5	29.4	B5		
BH (60°-80°)	5217.5	14.6	B5		G3/7500
BVH (80°-90°)	74.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7
2.5°	4146.4	4154.6	4228.6	4199.8	4224.5	4179.3	4212.1	4282.0	4199.8	4261.4	4282.0
5°	4191.6	4203.9	4203.9	4232.7	4249.1	4240.9	4261.4	4232.7	4310.8	4277.9	4327.2
7.5°	4356.0	4335.4	4302.5	4327.2	4331.3	4351.8	4372.4	4409.4	4397.1	4368.3	4417.6
10°	4384.7	4368.3	4417.6	4421.7	4401.2	4384.7	4405.3	4405.3	4442.3	4450.5	4450.5
12.5°	4434.0	4450.5	4446.4	4479.2	4483.4	4471.0	4503.9	4565.5	4549.1	4561.4	4532.7
15°	4623.1	4602.5	4598.4	4631.3	4684.7	4606.6	4664.2	4660.1	4643.6	4668.3	4602.5
17.5°	4787.4	4721.7	4750.5	4803.9	4783.3	4799.8	4873.7	4808.0	4824.4	4795.7	4775.1
20°	4931.3	4877.9	4882.0	4902.5	4902.5	4951.8	4980.6	4955.9	4939.5	4935.4	4943.6
22.5°	5091.5	5029.9	5034.0	5120.3	5149.1	5132.6	5112.1	5153.2	5161.4	5128.5	5165.5
25°	5210.7	5276.5	5297.0	5338.1	5276.5	5321.7	5305.2	5383.3	5432.6	5366.9	5412.1
27.5°	5523.0	5494.3	5547.7	5543.6	5592.9	5547.7	5576.4	5601.1	5621.7	5625.8	5605.2
30°	5802.5	5814.8	5761.4	5905.2	5790.1	5864.1	5913.4	5925.7	5950.4	5950.4	5888.8
32.5°	6098.3	6073.7	6160.0	6127.1	6106.6	6164.1	6110.7	6279.2	6180.5	6238.1	6168.2
35°	6431.2	6431.2	6464.1	6554.5	6431.2	6394.2	6492.8	6562.7	6562.7	6460.0	6484.6
37.5°	6805.2	6772.3	6813.4	6928.4	6833.9	6710.6	6891.5	6920.2	6899.7	6870.9	6821.6
40°	7068.2	7059.9	7142.1	7294.2	7158.6	7133.9	7166.8	7244.9	7269.5	7298.3	7232.5
42.5°	7512.0	7549.0	7787.3	7750.3	7639.4	7553.1	7544.8	7836.6	7766.8	7692.8	7655.8
45°	8169.5	8136.6	8259.9	8264.0	8120.2	7931.1	7972.2	8239.3	8358.5	8194.1	8255.8
47.5°	8691.4	8707.8	8794.1	8970.8	8637.9	8440.7	8592.7	9024.2	8987.2	8925.6	8983.1
50°	9390.0	9463.9	9735.2	9673.5	9377.6	9135.2	9468.0	9874.9	9920.1	9694.1	9653.0
52.5°	10355.7	10470.7	10618.7	10668.0	10384.4	10298.1	10318.7	10824.1	10713.2	10495.4	10355.7
55°	11202.2	11255.6	11526.9	11933.7	11913.1	11498.1	11736.4	11925.5	11473.4	11025.5	11062.5
57.5°	11563.8	11588.5	12344.6	13158.3	13643.2	13737.7	13466.5	12829.5	11752.9	10889.9	10836.5
60°	10663.9	10898.1	11810.4	13647.3	15862.3	16955.4	15151.3	12932.3	11099.5	10051.6	9973.5
62.5°	8522.9	8535.2	9891.3	12677.5	17243.0	20107.3	15796.5	11966.6	9357.1	8169.5	7857.2
64°	6069.6	6184.6	7742.1	11222.8	16955.4	21389.4	15718.4	10705.0	7713.3	6028.5	5810.7
65°	4356.0	4516.2	6020.3	9743.4	16281.4	21237.4	15484.2	9620.1	6238.1	4602.5	4380.6
67.5°	1602.7	1668.4	2362.9	4873.7	11691.2	18097.8	12270.7	5288.8	2741.0	1952.0	1754.7
70°	743.8	747.9	875.3	1610.9	5112.1	12102.2	5855.9	1984.8	1031.5	817.8	760.2
72.5°	546.5	558.9	612.3	743.8	1504.0	5124.4	1923.2	813.7	604.1	534.2	521.9
75°	443.8	452.0	468.5	538.3	694.5	1372.5	780.8	563.0	480.8	431.5	415.0
77.5°	341.1	341.1	378.1	410.9	460.3	641.1	517.8	447.9	390.4	341.1	328.8
80°	246.6	250.7	295.9	320.5	312.3	423.3	374.0	369.8	320.5	267.1	246.6
82.5°	143.8	156.2	213.7	230.1	221.9	250.7	271.2	287.7	250.7	184.9	168.5
85°	82.2	86.3	123.3	127.4	127.4	119.2	156.2	172.6	168.5	115.1	102.7
87.5°	24.7	24.7	32.9	32.9	37.0	41.1	61.6	74.0	82.2	57.5	53.4
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7	4195.7
2.5°	4261.4	4199.8	4203.9	4220.3	4166.9	4187.5	4249.1	4203.9	4191.6	4166.9	4154.6
5°	4240.9	4306.6	4282.0	4290.2	4277.9	4220.3	4212.1	4249.1	4269.7	4232.7	4306.6
7.5°	4384.7	4356.0	4323.1	4335.4	4306.6	4356.0	4388.8	4314.9	4351.8	4331.3	4290.2
10°	4466.9	4413.5	4438.1	4429.9	4409.4	4458.7	4425.8	4417.6	4384.7	4339.5	4405.3
12.5°	4495.7	4557.3	4598.4	4528.6	4540.9	4516.2	4495.7	4495.7	4458.7	4446.4	4458.7
15°	4623.1	4676.5	4660.1	4713.5	4643.6	4668.3	4692.9	4631.3	4664.2	4573.8	4643.6
17.5°	4857.3	4812.1	4869.6	4799.8	4824.4	4873.7	4795.7	4795.7	4820.3	4771.0	4709.4
20°	5005.2	4984.7	4964.1	4968.3	4927.2	4972.4	4947.7	4935.4	4898.4	4914.8	4947.7
22.5°	5145.0	5116.2	5124.4	5136.7	5165.5	5145.0	5132.6	5145.0	5054.6	5136.7	5021.7
25°	5317.6	5395.6	5371.0	5424.4	5342.2	5395.6	5391.5	5313.4	5362.8	5329.9	5305.2
27.5°	5605.2	5564.1	5601.1	5535.4	5592.9	5597.0	5547.7	5679.2	5621.7	5613.4	5597.0
30°	5975.1	5946.3	5921.6	5884.7	5929.9	5892.9	5934.0	5946.3	5892.9	5851.8	5773.7
32.5°	6184.6	6262.7	6291.5	6201.1	6205.2	6225.7	6188.7	6151.8	6184.6	6197.0	6184.6
35°	6480.5	6554.5	6570.9	6501.1	6464.1	6566.8	6492.8	6616.1	6509.3	6513.4	6402.4
37.5°	6825.7	6846.3	6986.0	6907.9	6875.0	6825.7	6961.3	6944.9	6969.5	6772.3	6870.9
40°	7216.1	7290.1	7368.1	7170.9	7166.8	7212.0	7203.8	7298.3	7253.1	7224.3	7154.5
42.5°	7643.5	7799.6	7812.0	7680.5	7598.3	7590.1	7631.1	7840.7	7844.8	7655.8	7573.6
45°	8210.6	8383.2	8338.0	8083.2	7992.8	7980.4	8181.8	8272.2	8350.3	8276.3	8206.5
47.5°	8917.4	9032.5	8999.6	8765.3	8473.6	8555.8	8753.0	9036.6	8954.4	8855.7	8773.6
50°	9673.5	9809.1	9739.3	9505.0	9225.6	9225.6	9468.0	9829.7	9805.0	9611.9	9537.9
52.5°	10511.8	10709.1	10869.4	10536.5	10302.3	10339.2	10721.4	10852.9	10791.3	10655.7	10594.0
55°	11136.5	11514.5	11843.3	11859.7	11872.0	11867.9	11966.6	12098.1	11658.4	11440.6	11218.6
57.5°	10984.4	11699.4	12825.4	13589.8	13815.8	13935.0	13902.1	13293.9	12254.2	11539.2	11613.2
60°	9899.5	11066.6	12883.0	15336.3	16980.0	16815.6	16215.7	13811.7	11925.5	10717.3	10565.3
62.5°	7898.3	9303.7	11917.2	15829.4	20357.9	20308.6	17169.1	12615.8	9936.5	8407.8	8313.3
64°	5950.4	7429.8	10631.0	15702.0	21541.5	21590.8	16926.6	11144.7	7775.0	5950.4	5806.6
65°	4553.2	5925.7	9369.4	15439.0	21286.7	21315.4	16252.7	9624.2	5909.3	4224.5	4068.3
67.5°	1812.2	2523.2	5083.3	11707.7	18278.6	18200.5	11596.7	4655.9	2260.2	1471.2	1442.4
70°	772.6	961.6	1783.5	5547.7	12237.8	12011.8	4992.9	1512.3	838.3	702.7	698.6
72.5°	530.1	587.6	764.3	1713.6	5087.4	4968.3	1421.9	702.7	571.2	526.0	526.0
75°	427.4	468.5	554.8	719.1	1347.9	1298.6	669.8	517.8	456.1	423.3	419.2
77.5°	332.9	374.0	435.6	497.2	616.4	612.3	447.9	390.4	353.4	328.8	320.5
80°	263.0	304.1	345.2	353.4	402.7	394.5	304.1	308.2	287.7	238.3	234.2
82.5°	180.8	246.6	275.3	250.7	238.3	238.3	217.8	217.8	201.4	147.9	135.6
85°	111.0	164.4	172.6	147.9	111.0	111.0	119.2	115.1	106.8	78.1	74.0
87.5°	57.5	78.1	69.9	57.5	37.0	37.0	32.9	24.7	24.7	20.5	20.5
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)