

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: P481026

Luminaire Tested: **IFLD-M-SA4D-827-U-SL4**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481026  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

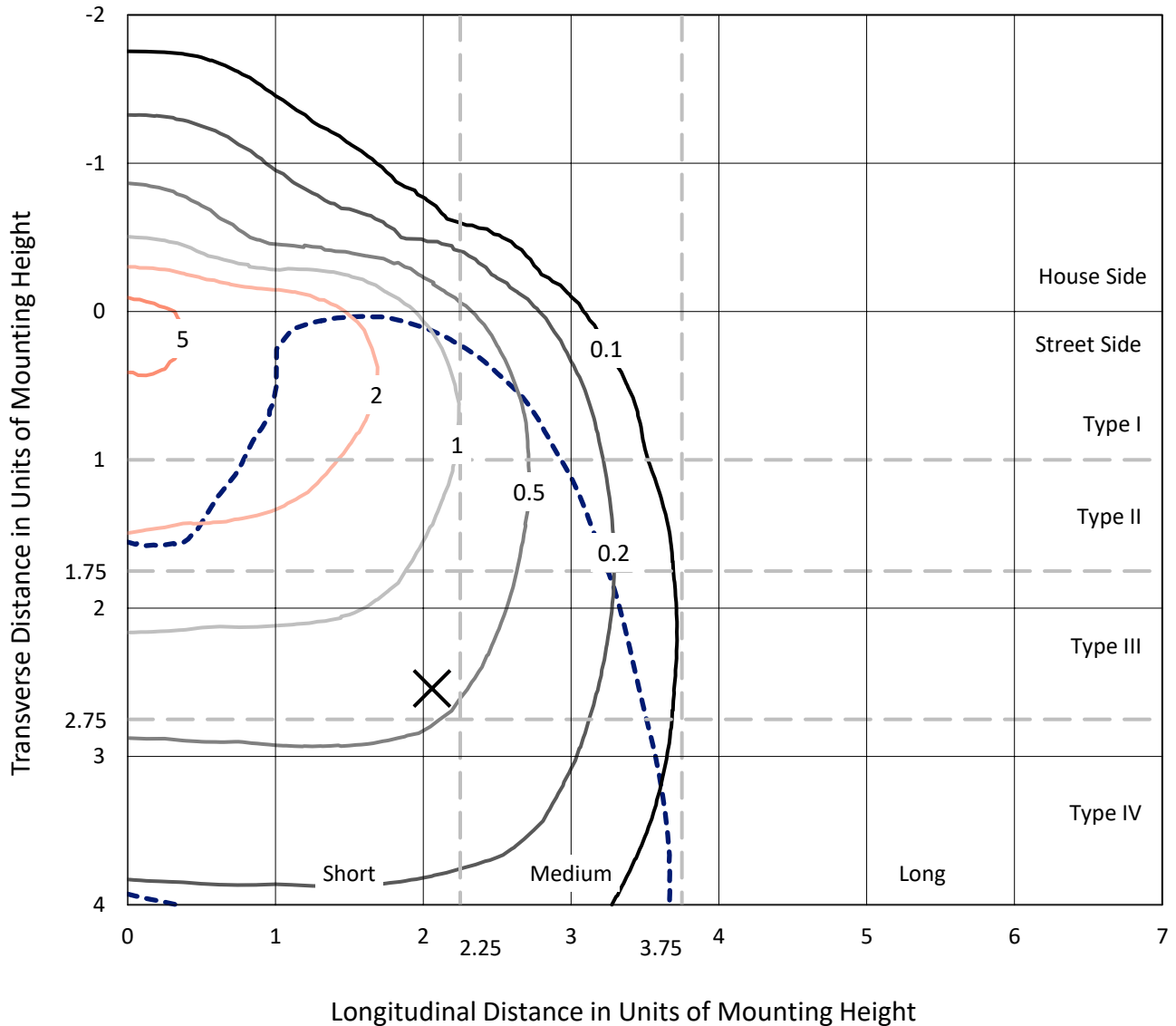
Lumens per Lamp: N/A  
Luminaire Lumens: 22244.4 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7  
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

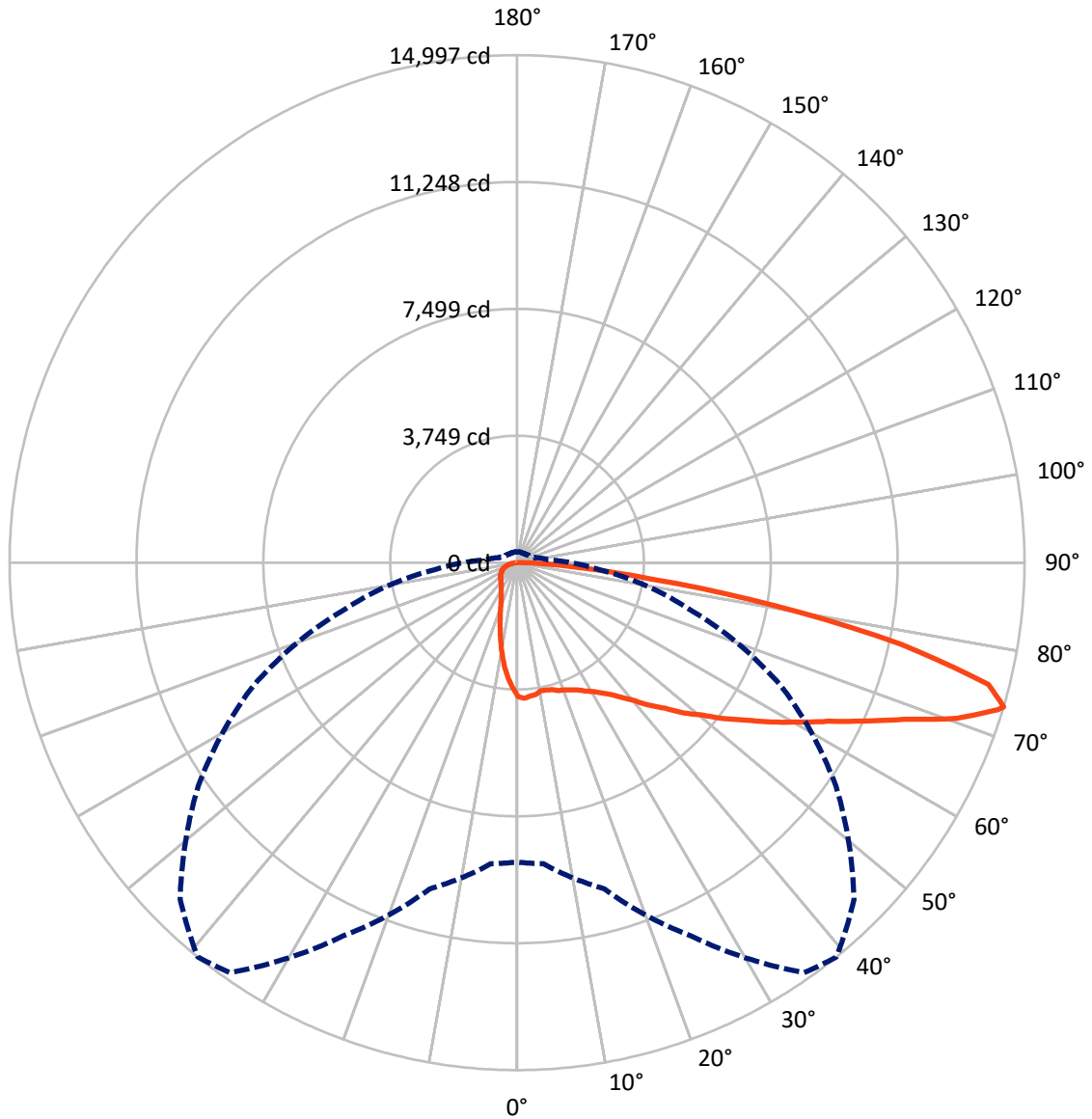
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P481026  
CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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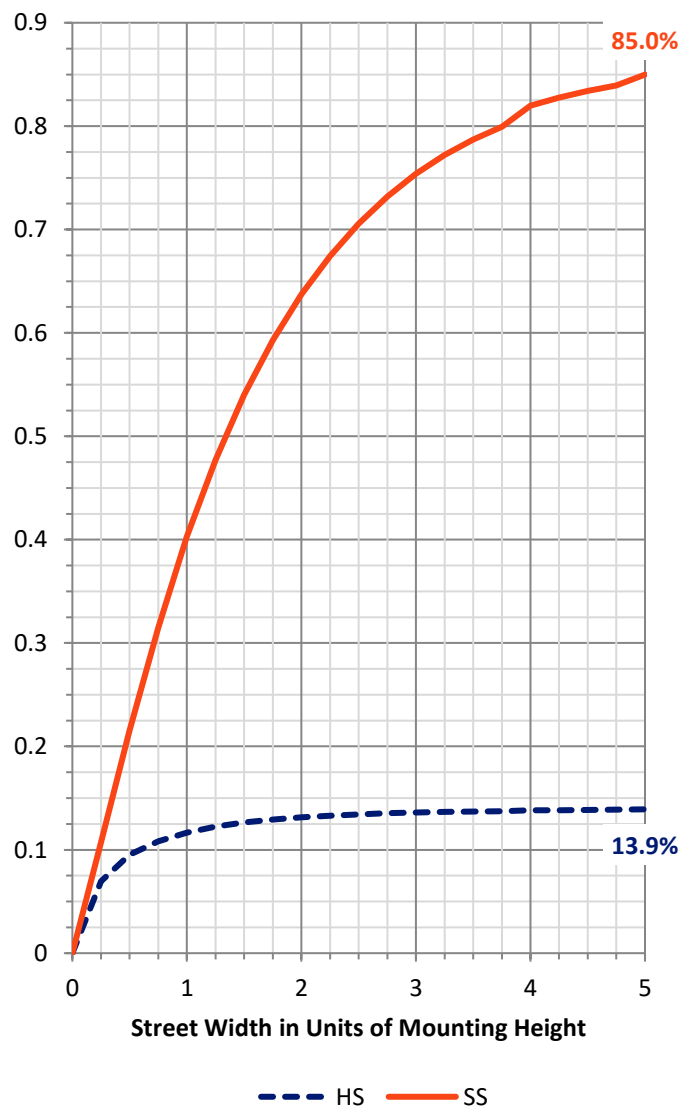
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3126.9	0.0	3126.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19117.4	0.0	19117.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22244.4	0.0	22244.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.7	1.5
10°-20°	873.8	3.9
20°-30°	1335.3	6.0
30°-40°	1946.9	8.8
40°-50°	2941.9	13.2
50°-60°	4260.1	19.2
60°-70°	5412.6	24.3
70°-80°	4387.8	19.7
80°-90°	742.4	3.3
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°	22244.4	100.0
0°-180°	22244.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P481026

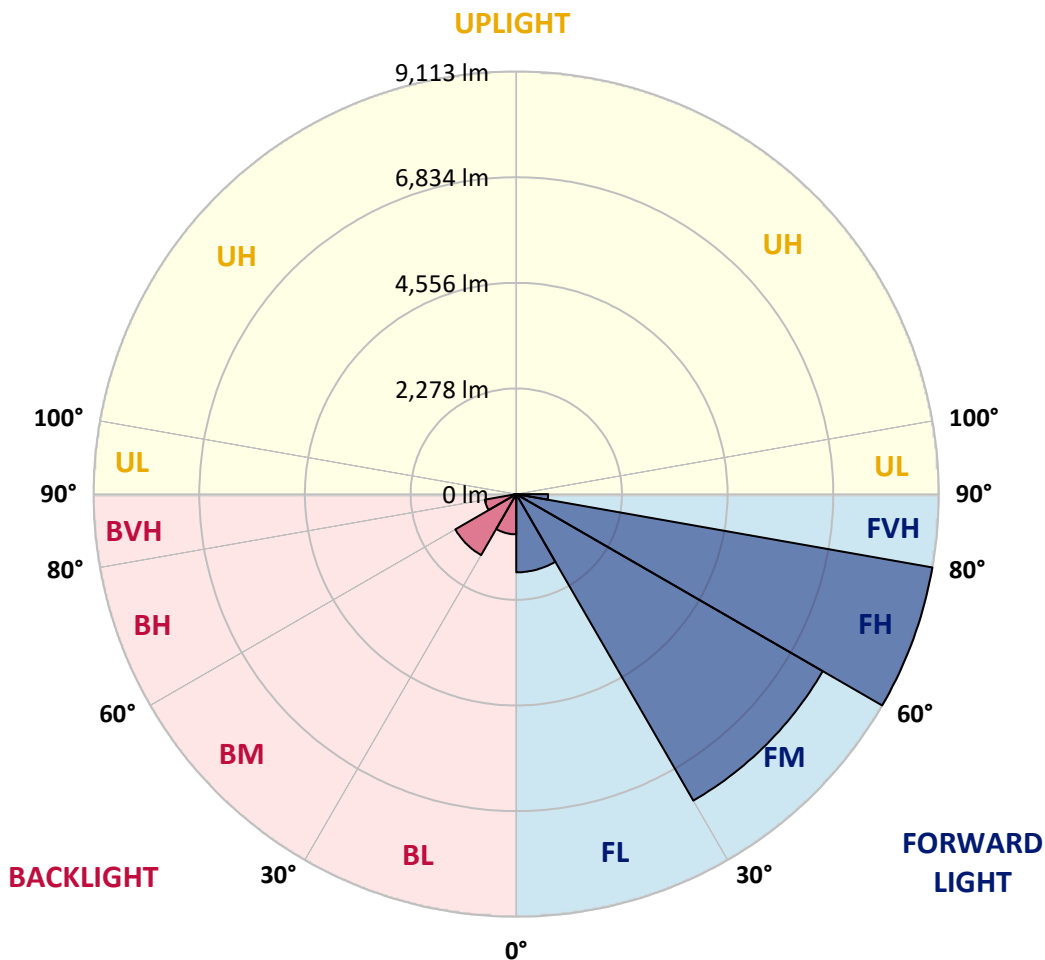
CATALOG NUMBER: IFLD-M-SA4D-827-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.6	7.6			
FM (30°-60°)	7631.3	34.3			
FH (60°-80°)	9112.6	41.0			G4/12000
FVH (80°-90°)	687.9	3.1			G4/750
BL (0°-30°)	867.2	3.9	B2/1000		
BM (30°-60°)	1517.6	6.8	B2/2500		
BH (60°-80°)	687.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	54.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6
2.5°	4054.2	4011.9	4019.4	4004.4	4019.4	4014.4	4006.9	3969.6	4006.9	3969.6	3959.6
5°	3999.5	3999.5	4024.3	3987.0	3992.0	3967.1	3992.0	3964.6	3939.7	3877.5	3860.1
7.5°	3982.0	3979.5	3982.0	3929.8	3954.7	3939.7	3914.8	3885.0	3835.2	3795.4	3738.1
10°	3862.6	3887.5	3860.1	3875.0	3894.9	3850.1	3847.6	3840.2	3817.8	3765.5	3730.7
12.5°	3797.9	3840.2	3855.1	3842.7	3860.1	3865.1	3850.1	3840.2	3812.8	3778.0	3678.4
15°	3825.2	3775.5	3817.8	3899.9	3882.5	3894.9	3897.4	3887.5	3875.0	3810.3	3745.6
17.5°	3832.7	3802.8	3892.4	3909.9	3932.3	3977.1	3947.2	3944.7	3897.4	3852.6	3758.0
20°	3850.1	3837.7	3909.9	4001.9	4004.4	4011.9	4026.8	3989.5	3964.6	3887.5	3743.1
22.5°	3914.8	3957.1	4024.3	4064.2	4086.6	4091.5	4091.5	4016.9	3989.5	3927.3	3812.8
25°	4109.0	4064.2	4158.7	4206.0	4173.7	4166.2	4148.8	4081.6	4051.7	3997.0	3845.1
27.5°	4250.8	4248.3	4303.1	4367.8	4280.7	4298.1	4235.9	4216.0	4148.8	4118.9	3902.4
30°	4444.9	4499.7	4497.2	4517.1	4402.6	4422.5	4342.9	4305.6	4268.2	4285.7	4071.6
32.5°	4693.8	4673.9	4706.3	4691.3	4576.8	4594.3	4499.7	4442.5	4454.9	4507.2	4303.1
35°	4853.1	4833.2	4845.6	4845.6	4810.8	4790.9	4751.1	4676.4	4736.1	4833.2	4561.9
37.5°	5024.8	5049.7	5121.9	5107.0	5062.2	5062.2	5057.2	5004.9	5082.1	5321.0	4975.0
40°	5176.6	5243.8	5288.6	5318.5	5370.8	5370.8	5413.1	5383.2	5522.6	5905.8	5480.3
42.5°	5335.9	5338.4	5582.3	5604.7	5721.7	5771.5	5803.8	5828.7	6090.0	6518.1	6020.3
45°	5540.0	5552.4	5766.5	5938.2	6119.9	6137.3	6259.3	6341.4	6662.4	7187.6	6607.7
47.5°	5808.8	5793.9	6022.8	6296.6	6523.1	6642.5	6789.4	6879.0	7274.7	7914.3	7249.8
50°	6162.2	6117.4	6249.3	6679.9	6946.2	7078.1	7339.4	7488.7	7951.6	8608.7	7690.3
52.5°	6592.7	6518.1	6622.6	7093.0	7391.6	7657.9	7906.8	8073.6	8556.4	9146.2	8016.3
55°	7048.2	6893.9	6923.8	7531.0	7961.6	8212.9	8553.9	8728.1	9220.9	9629.0	8342.4
57.5°	7498.7	7401.6	7341.9	7951.6	8641.0	8882.4	9196.0	9422.5	9840.6	10057.1	8618.6
60°	7877.0	7852.1	7755.0	8603.7	9360.3	9566.8	9895.3	10034.7	10350.8	10452.8	8623.6
62.5°	8188.0	8103.4	8257.7	9128.8	10092.0	10325.9	10686.8	10699.2	10923.2	10699.2	8369.7
65°	8431.9	8436.9	8683.3	9763.4	10938.1	11284.1	11575.3	11542.9	11398.6	10552.4	7769.9
67.5°	8653.4	8748.0	9108.9	10460.3	12025.7	12351.8	12675.3	12247.2	11528.0	9865.5	6597.7
70°	8827.7	8922.2	9683.8	11309.0	13307.4	13785.3	13857.5	12526.0	10933.2	8357.3	4977.5
72.5°	8807.8	8979.5	10009.8	11985.9	14444.8	14857.9	14275.6	11742.0	9108.9	5826.2	2904.4
73°	8850.1	8934.7	9982.5	12175.1	14790.8	14997.3	14081.5	11495.6	8591.2	5226.4	2456.4
75°	8033.7	8320.0	9487.2	11866.4	14419.9	14382.6	12966.5	9579.3	6107.4	2745.1	1189.6
77.5°	5943.2	6124.9	7476.3	9758.5	11836.6	11597.7	9780.9	6122.4	2899.4	1017.9	642.1
80°	2904.4	3046.3	3962.1	5634.6	7740.1	7760.0	6070.1	3185.6	1241.9	574.9	438.0
82.5°	1451.0	1535.6	1903.9	2476.3	3807.8	3989.5	3078.6	1811.8	769.0	326.0	248.9
85°	948.2	1008.0	1172.2	1212.0	1615.2	1704.8	1433.5	1413.6	500.2	176.7	201.6
87.5°	629.7	639.6	719.3	612.2	647.1	622.2	691.9	891.0	146.8	74.7	54.8
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°	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6	3959.6
2.5°	3947.2	3912.3	3875.0	3822.7	3785.4	3728.2	3675.9	3653.5	3648.5	3651.0	3626.1
5°	3845.1	3795.4	3720.7	3613.7	3551.5	3456.9	3377.3	3335.0	3290.2	3297.6	3277.7
7.5°	3703.3	3648.5	3534.1	3409.6	3255.3	3120.9	3046.3	2941.7	2882.0	2837.2	2862.1
10°	3658.5	3563.9	3392.2	3220.5	2981.5	2804.8	2633.1	2513.7	2431.5	2351.9	2386.7
12.5°	3636.1	3541.5	3302.6	3048.7	2740.1	2471.3	2229.9	2083.1	1966.1	1896.4	1923.8
15°	3616.2	3499.2	3218.0	2859.6	2513.7	2160.3	1889.0	1694.9	1582.9	1515.7	1523.1
17.5°	3643.6	3476.8	3093.5	2675.4	2264.8	1886.5	1585.3	1383.8	1269.3	1227.0	1217.0
20°	3616.2	3451.9	2971.6	2491.3	2015.9	1625.2	1336.5	1169.7	1090.1	1055.2	1047.8
22.5°	3626.1	3392.2	2844.7	2287.2	1784.4	1406.2	1169.7	1042.8	980.6	963.2	968.1
25°	3673.4	3357.3	2717.7	2063.2	1555.5	1244.4	1062.7	965.6	920.8	903.4	908.4
27.5°	3708.3	3387.2	2603.3	1851.6	1361.4	1100.0	973.1	908.4	878.5	866.1	863.6
30°	3795.4	3404.6	2491.3	1662.5	1202.1	1005.5	910.9	858.6	838.7	831.2	828.8
32.5°	3924.8	3437.0	2361.8	1488.3	1085.1	915.9	861.1	816.3	811.3	803.9	806.4
35°	4136.3	3549.0	2217.5	1339.0	973.1	856.1	808.8	779.0	779.0	779.0	786.5
37.5°	4440.0	3705.8	2088.1	1197.1	900.9	803.9	764.1	754.1	749.1	756.6	761.6
40°	4830.7	3894.9	1983.5	1085.1	838.7	769.0	734.2	729.2	726.7	724.2	729.2
42.5°	5258.8	4136.3	1894.0	998.0	793.9	731.7	706.8	701.8	691.9	696.9	704.3
45°	5684.3	4435.0	1814.3	928.3	764.1	711.8	676.9	674.5	669.5	667.0	679.4
47.5°	6157.2	4728.7	1789.4	886.0	741.7	681.9	657.0	654.5	639.6	637.1	647.1
50°	6525.6	4945.2	1816.8	866.1	709.3	659.5	642.1	629.7	617.2	604.8	604.8
52.5°	6779.4	5094.5	1836.7	851.2	691.9	629.7	607.3	602.3	589.8	577.4	572.4
55°	7008.4	5184.1	1841.7	853.6	674.5	594.8	579.9	577.4	569.9	550.0	545.0
57.5°	7085.5	5146.8	1742.1	831.2	664.5	572.4	552.5	557.5	547.5	530.1	527.6
60°	7078.1	4887.9	1515.7	801.4	642.1	547.5	522.6	537.6	537.6	517.7	515.2
62.5°	6647.5	4290.6	1239.4	744.1	617.2	522.6	495.3	517.7	525.1	512.7	510.2
65°	5754.0	3494.2	1035.3	686.9	579.9	495.3	467.9	492.8	505.2	500.2	497.8
67.5°	4761.0	2672.9	861.1	612.2	532.6	457.9	435.5	453.0	460.4	462.9	465.4
70°	3364.8	1779.5	719.3	530.1	467.9	418.1	393.2	395.7	393.2	400.7	400.7
72.5°	1829.2	1025.4	584.9	450.5	403.2	363.4	345.9	333.5	333.5	331.0	331.0
73°	1565.4	920.8	557.5	438.0	385.8	353.4	333.5	323.5	323.5	321.1	318.6
75°	878.5	674.5	477.8	375.8	333.5	308.6	293.7	278.7	276.3	276.3	276.3
77.5°	577.4	525.1	380.8	301.1	268.8	246.4	241.4	226.5	226.5	226.5	224.0
80°	433.0	413.1	293.7	229.0	206.6	189.1	184.2	174.2	171.7	161.8	164.3
82.5°	288.7	326.0	214.0	161.8	139.4	129.4	129.4	126.9	119.5	107.0	107.0
85°	229.0	266.3	154.3	99.6	82.1	69.7	72.2	69.7	67.2	54.8	52.3
87.5°	42.3	107.0	44.8	27.4	19.9	12.4	12.4	7.5	5.0	0.0	0.0
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)