

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: P478990

Luminaire Tested: **IFLD-S-SA6A-750-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478990  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-750-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

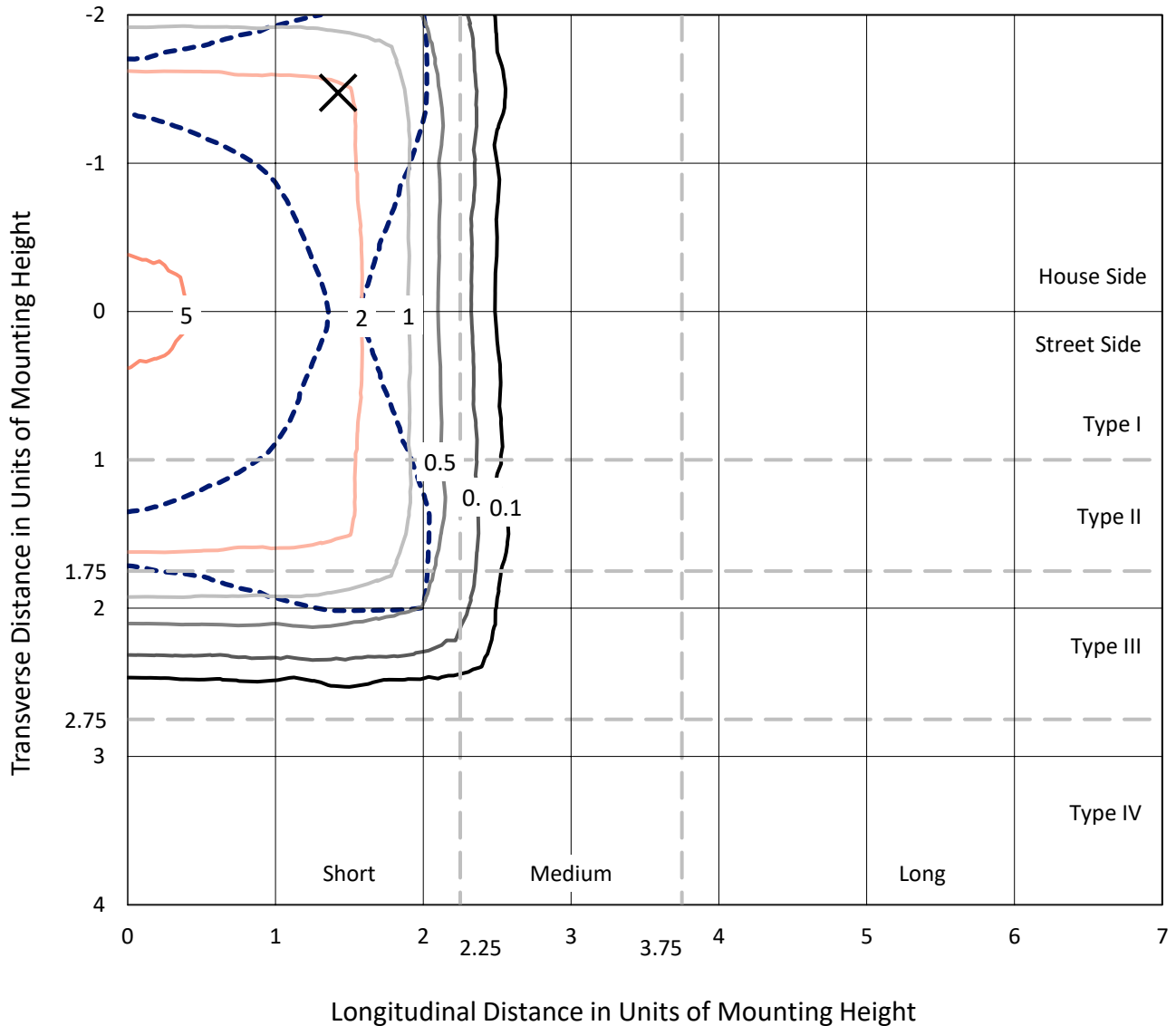
Lumens per Lamp: N/A  
Luminaire Lumens: 27535.5 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 189.6  
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

REPORT NUMBER: P478990  
 CATALOG NUMBER: IFLD-S-SA6A-750-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

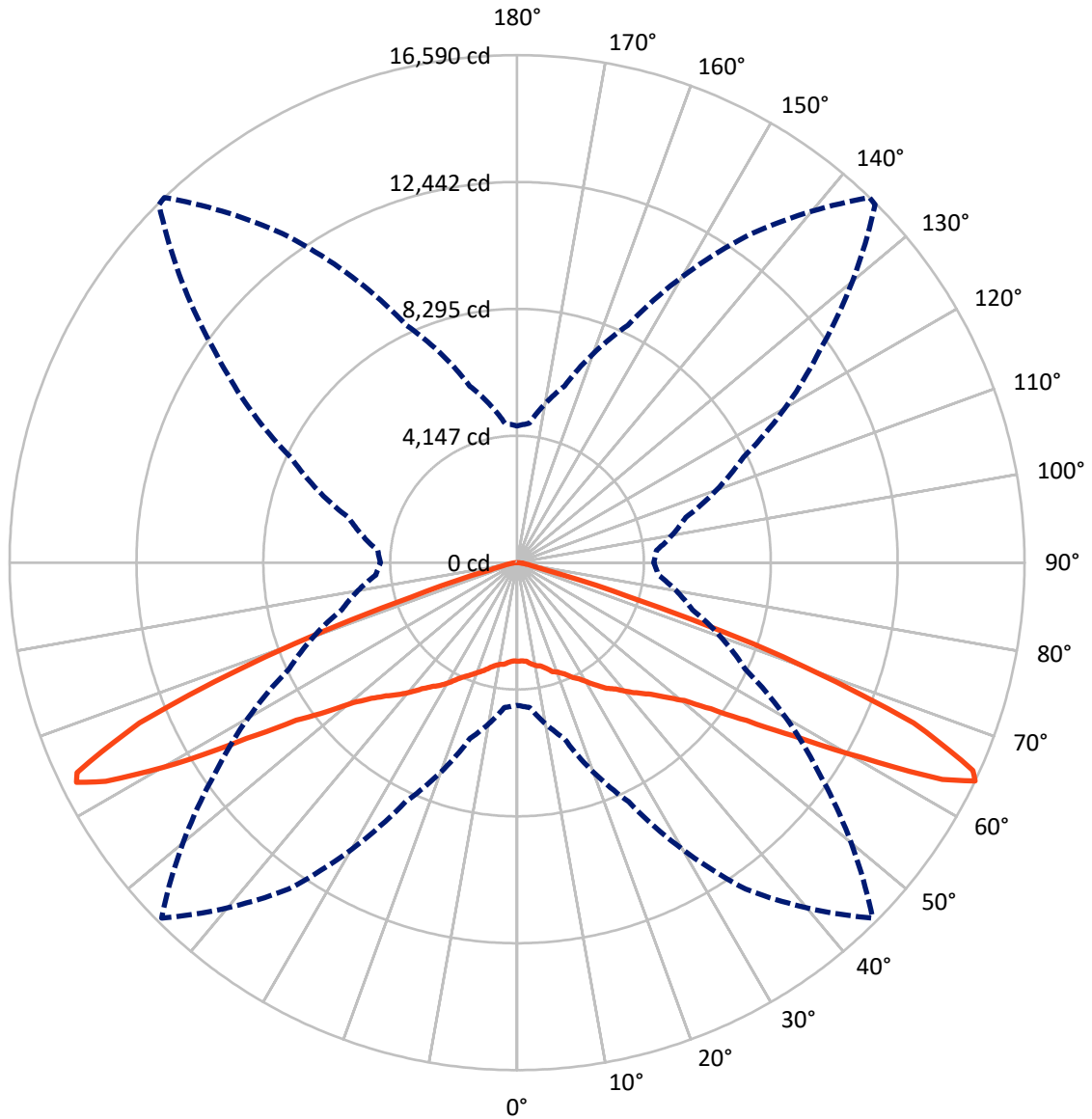
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

REPORT NUMBER: P478990  
CATALOG NUMBER: IFLD-S-SA6A-750-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478990

CATALOG NUMBER: IFLD-S-SA6A-750-U-5NQ

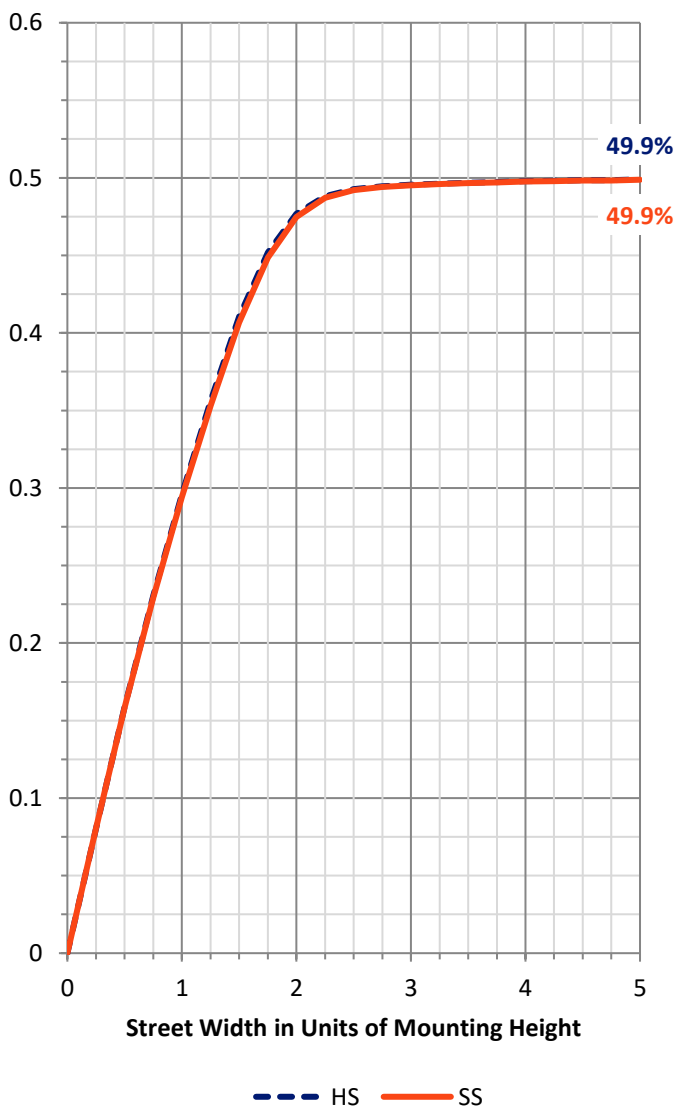
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13780.9	0.0	13780.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13754.6	0.0	13754.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27535.5	0.0	27535.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.8	1.2
10°-20°	1020.9	3.7
20°-30°	1918.8	7.0
30°-40°	3164.4	11.5
40°-50°	4948.9	18.0
50°-60°	7996.2	29.0
60°-70°	7200.0	26.1
70°-80°	852.9	3.1
80°-90°	116.7	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°	27535.5	100.0
0°-180°	27535.5	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478990

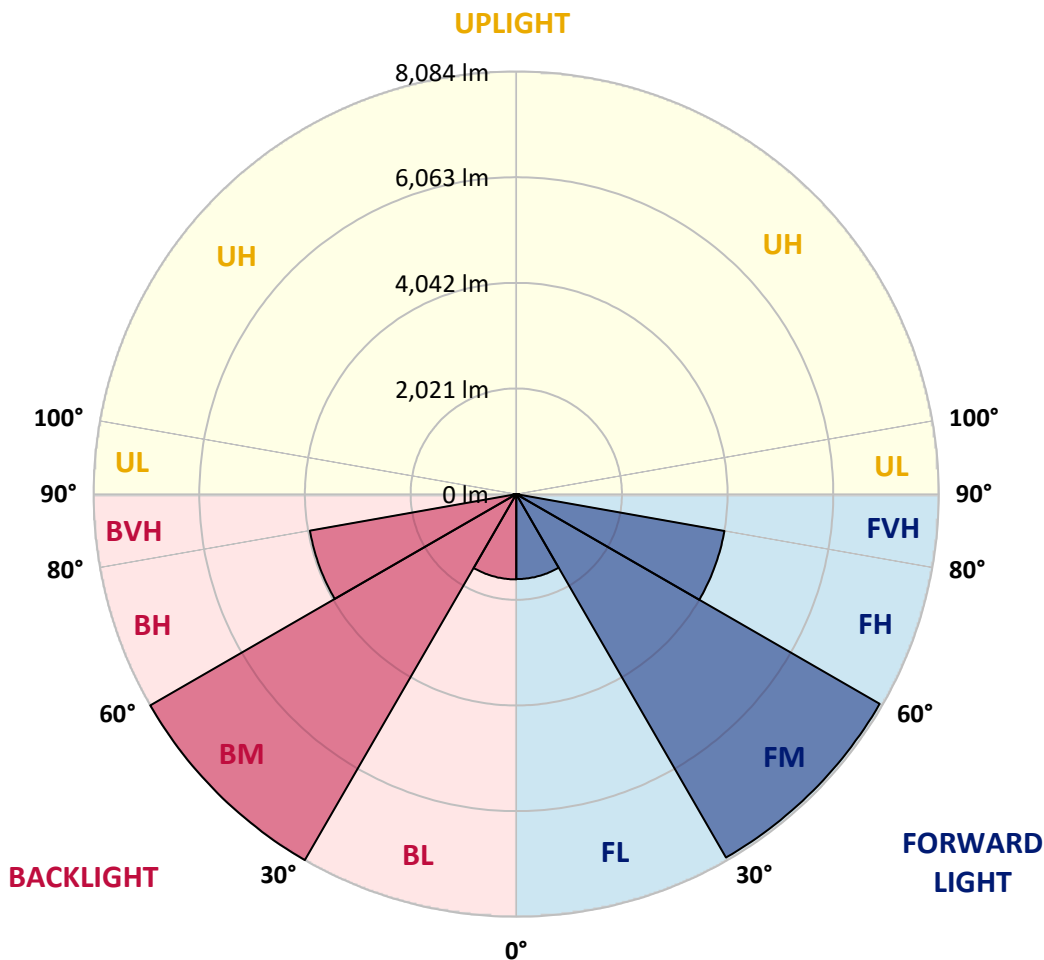
CATALOG NUMBER: IFLD-S-SA6A-750-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1625.1	5.9			
FM (30°-60°)	8025.7	29.1			
FH (60°-80°)	4043.9	14.7			G2/5000
FVH (80°-90°)	59.9	0.2			G1/100
BL (0°-30°)	1631.4	5.9	B3/2500		
BM (30°-60°)	8083.7	29.4	B4/8500		
BH (60°-80°)	4009.0	14.6	B4/5000		G2/5000
BVH (80°-90°)	56.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





REPORT NUMBER: P478990

CATALOG NUMBER: IFLD-S-SA6A-750-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8
2.5°	3185.9	3192.3	3249.1	3227.0	3245.9	3211.2	3236.5	3290.1	3227.0	3274.4	3290.1
5°	3220.7	3230.2	3230.2	3252.3	3264.9	3258.6	3274.4	3252.3	3312.3	3287.0	3324.9
7.5°	3347.0	3331.2	3305.9	3324.9	3328.0	3343.8	3359.6	3388.0	3378.6	3356.5	3394.3
10°	3369.1	3356.5	3394.3	3397.5	3381.7	3369.1	3384.9	3384.9	3413.3	3419.6	3419.6
12.5°	3407.0	3419.6	3416.4	3441.7	3444.9	3435.4	3460.7	3508.0	3495.4	3504.9	3482.8
15°	3552.2	3536.4	3533.3	3558.5	3599.6	3539.6	3583.8	3580.6	3568.0	3587.0	3536.4
17.5°	3678.5	3628.0	3650.1	3691.2	3675.4	3688.0	3744.8	3694.3	3706.9	3684.8	3669.1
20°	3789.0	3748.0	3751.1	3766.9	3766.9	3804.8	3826.9	3808.0	3795.4	3792.2	3798.5
22.5°	3912.2	3864.8	3868.0	3934.3	3956.4	3943.8	3928.0	3959.5	3965.9	3940.6	3969.0
25°	4003.8	4054.3	4070.1	4101.6	4054.3	4089.0	4076.4	4136.4	4174.3	4123.7	4158.5
27.5°	4243.7	4221.6	4262.7	4259.5	4297.4	4262.7	4284.8	4303.7	4319.5	4322.7	4306.9
30°	4458.4	4467.9	4426.9	4537.4	4449.0	4505.8	4543.7	4553.2	4572.1	4572.1	4524.7
32.5°	4685.8	4666.8	4733.1	4707.9	4692.1	4736.3	4695.3	4824.7	4748.9	4793.1	4739.5
35°	4941.5	4941.5	4966.8	5036.3	4941.5	4913.1	4988.9	5042.6	5042.6	4963.6	4982.6
37.5°	5228.9	5203.6	5235.2	5323.6	5251.0	5156.3	5295.2	5317.3	5301.5	5279.4	5241.5
40°	5431.0	5424.6	5487.8	5604.6	5500.4	5481.5	5506.7	5566.7	5585.7	5607.8	5557.3
42.5°	5772.0	5800.4	5983.5	5955.1	5869.9	5803.5	5797.2	6021.4	5967.7	5910.9	5882.5
45°	6277.2	6251.9	6346.6	6349.8	6239.3	6094.0	6125.6	6330.9	6422.4	6296.1	6343.5
47.5°	6678.2	6690.8	6757.1	6892.9	6637.1	6485.6	6602.4	6933.9	6905.5	6858.2	6902.4
50°	7215.0	7271.8	7480.2	7432.8	7205.5	7019.2	7275.0	7587.5	7622.3	7448.6	7417.0
52.5°	7957.0	8045.4	8159.1	8197.0	7979.1	7912.8	7928.6	8316.9	8231.7	8064.3	7957.0
55°	8607.4	8648.5	8856.9	9169.5	9153.7	8834.8	9017.9	9163.2	8815.8	8471.7	8500.1
57.5°	8885.3	8904.2	9485.2	10110.4	10483.0	10555.6	10347.2	9857.8	9030.5	8367.5	8326.4
60°	8193.8	8373.8	9074.7	10486.2	12188.1	13028.0	11641.8	9936.8	8528.5	7723.3	7663.3
62.5°	6548.7	6558.2	7600.2	9741.0	13249.0	15449.8	12137.6	9194.7	7189.7	6277.2	6037.2
64°	4663.7	4752.1	5948.8	8623.2	13028.0	16435.0	12077.6	8225.4	5926.7	4632.1	4464.8
65°	3347.0	3470.1	4625.8	7486.5	12510.1	16318.1	11897.6	7391.8	4793.1	3536.4	3365.9
67.5°	1231.4	1282.0	1815.6	3744.8	8983.2	13905.8	9428.4	4063.7	2106.1	1499.8	1348.3
70°	571.5	574.7	672.6	1237.8	3928.0	9298.9	4499.5	1525.1	792.5	628.3	584.1
72.5°	420.0	429.4	470.5	571.5	1155.7	3937.4	1477.7	625.2	464.2	410.5	401.0
75°	341.0	347.3	360.0	413.6	533.6	1054.6	599.9	432.6	369.4	331.5	318.9
77.5°	262.1	262.1	290.5	315.8	353.6	492.6	397.8	344.2	300.0	262.1	252.6
80°	189.5	192.6	227.3	246.3	240.0	325.2	287.3	284.2	246.3	205.2	189.5
82.5°	110.5	120.0	164.2	176.8	170.5	192.6	208.4	221.0	192.6	142.1	129.5
85°	63.2	66.3	94.7	97.9	97.9	91.6	120.0	132.6	129.5	88.4	78.9
87.5°	18.9	18.9	25.3	25.3	28.4	31.6	47.4	56.8	63.2	44.2	41.0
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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 CATALOG NUMBER: IFLD-S-SA6A-750-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8	3223.8
2.5°	3274.4	3227.0	3230.2	3242.8	3201.7	3217.5	3264.9	3230.2	3220.7	3201.7	3192.3
5°	3258.6	3309.1	3290.1	3296.5	3287.0	3242.8	3236.5	3264.9	3280.7	3252.3	3309.1
7.5°	3369.1	3347.0	3321.7	3331.2	3309.1	3347.0	3372.2	3315.4	3343.8	3328.0	3296.5
10°	3432.2	3391.2	3410.1	3403.8	3388.0	3425.9	3400.7	3394.3	3369.1	3334.4	3384.9
12.5°	3454.3	3501.7	3533.3	3479.6	3489.1	3470.1	3454.3	3454.3	3425.9	3416.4	3425.9
15°	3552.2	3593.3	3580.6	3621.7	3568.0	3587.0	3605.9	3558.5	3583.8	3514.3	3568.0
17.5°	3732.2	3697.5	3741.7	3688.0	3706.9	3744.8	3684.8	3684.8	3703.8	3665.9	3618.5
20°	3845.9	3830.1	3814.3	3817.5	3785.9	3820.6	3801.7	3792.2	3763.8	3776.4	3801.7
22.5°	3953.2	3931.1	3937.4	3946.9	3969.0	3953.2	3943.8	3953.2	3883.8	3946.9	3858.5
25°	4085.8	4145.8	4126.9	4167.9	4104.8	4145.8	4142.7	4082.7	4120.6	4095.3	4076.4
27.5°	4306.9	4275.3	4303.7	4253.2	4297.4	4300.6	4262.7	4363.7	4319.5	4313.2	4300.6
30°	4591.1	4568.9	4550.0	4521.6	4556.3	4527.9	4559.5	4568.9	4527.9	4496.3	4436.3
32.5°	4752.1	4812.1	4834.2	4764.7	4767.9	4783.7	4755.2	4726.8	4752.1	4761.6	4752.1
35°	4979.4	5036.3	5048.9	4995.2	4966.8	5045.7	4988.9	5083.6	5001.5	5004.7	4919.4
37.5°	5244.7	5260.4	5367.8	5307.8	5282.6	5244.7	5348.9	5336.2	5355.2	5203.6	5279.4
40°	5544.6	5601.5	5661.5	5509.9	5506.7	5541.5	5535.2	5607.8	5573.0	5550.9	5497.3
42.5°	5873.0	5993.0	6002.5	5901.4	5838.3	5832.0	5863.5	6024.6	6027.7	5882.5	5819.3
45°	6308.7	6441.4	6406.6	6210.9	6141.4	6131.9	6286.6	6356.1	6416.1	6359.3	6305.6
47.5°	6851.8	6940.3	6915.0	6735.0	6510.8	6574.0	6725.5	6943.4	6880.3	6804.5	6741.3
50°	7432.8	7537.0	7483.4	7303.4	7088.7	7088.7	7275.0	7552.8	7533.9	7385.5	7328.6
52.5°	8077.0	8228.5	8351.7	8095.9	7915.9	7944.4	8238.0	8339.0	8291.7	8187.5	8140.1
55°	8556.9	8847.4	9100.0	9112.6	9122.1	9119.0	9194.7	9295.8	8957.9	8790.6	8620.1
57.5°	8440.1	8989.5	9854.7	10442.0	10615.6	10707.2	10681.9	10214.6	9415.8	8866.4	8923.2
60°	7606.5	8503.2	9898.9	11783.9	13046.9	12920.6	12459.6	10612.5	9163.2	8234.8	8118.0
62.5°	6068.8	7148.7	9156.8	12162.8	15642.4	15604.5	13192.2	9693.6	7634.9	6460.3	6387.7
64°	4572.1	5708.8	8168.5	12064.9	16551.8	16589.7	13005.9	8563.2	5974.1	4572.1	4461.6
65°	3498.5	4553.2	7199.2	11862.8	16356.0	16378.1	12488.0	7394.9	4540.5	3245.9	3126.0
67.5°	1392.5	1938.7	3905.9	8995.8	14044.7	13984.7	8910.6	3577.5	1736.6	1130.4	1108.3
70°	593.6	738.9	1370.4	4262.7	9403.1	9229.5	3836.4	1162.0	644.1	539.9	536.8
72.5°	407.3	451.5	587.3	1316.7	3909.0	3817.5	1092.5	539.9	438.9	404.2	404.2
75°	328.4	360.0	426.3	552.6	1035.7	997.8	514.7	397.8	350.5	325.2	322.1
77.5°	255.8	287.3	334.7	382.1	473.6	470.5	344.2	300.0	271.5	252.6	246.3
80°	202.1	233.7	265.2	271.5	309.4	303.1	233.7	236.8	221.0	183.1	180.0
82.5°	138.9	189.5	211.6	192.6	183.1	183.1	167.3	167.3	154.7	113.7	104.2
85°	85.3	126.3	132.6	113.7	85.3	85.3	91.6	88.4	82.1	60.0	56.8
87.5°	44.2	60.0	53.7	44.2	28.4	28.4	25.3	18.9	18.9	15.8	15.8
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)