

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: P478835

Luminaire Tested: **IFLD-S-SA6B-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478835  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

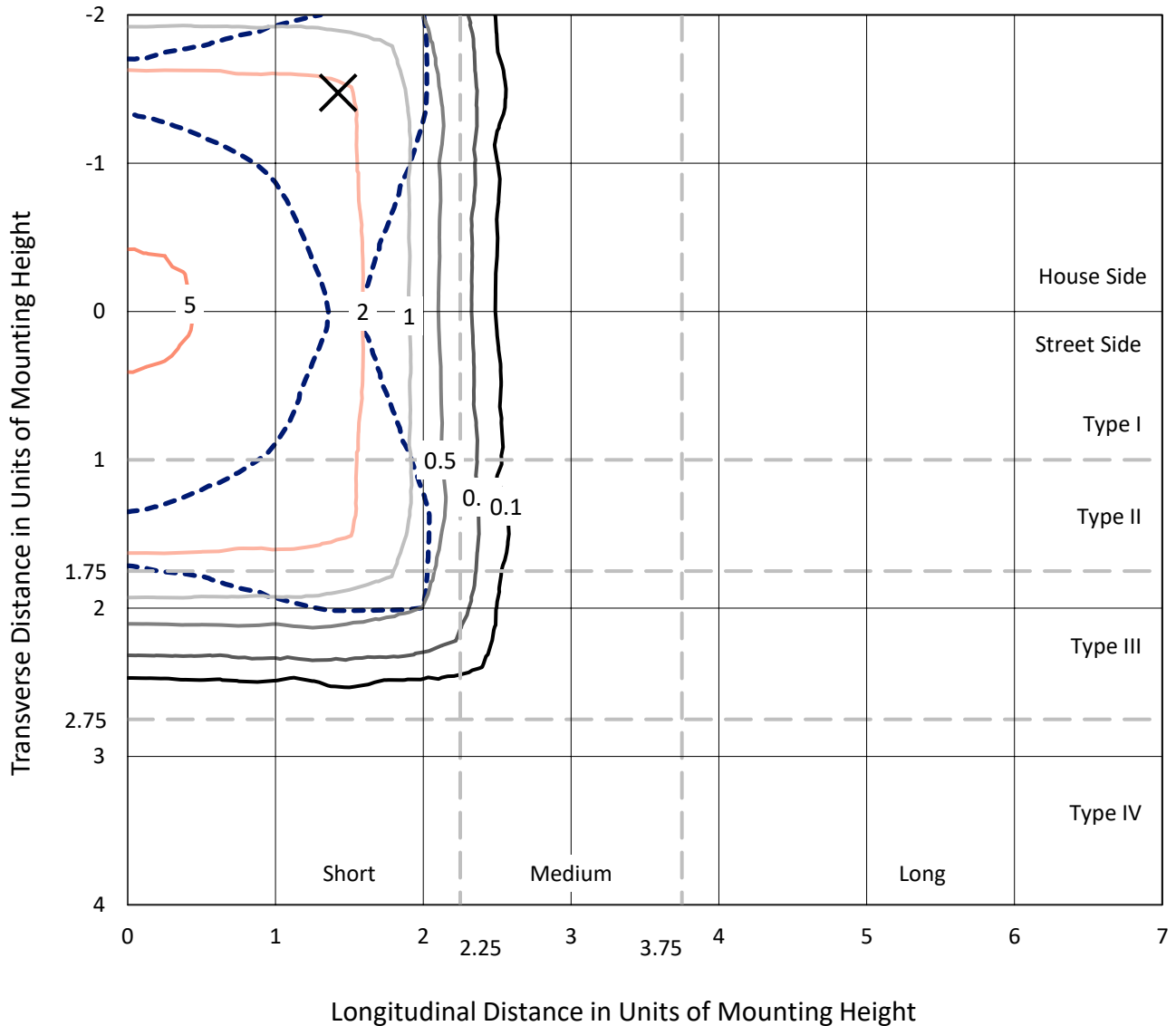
Lumens per Lamp: N/A  
Luminaire Lumens: 27842.1 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 244.9  
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

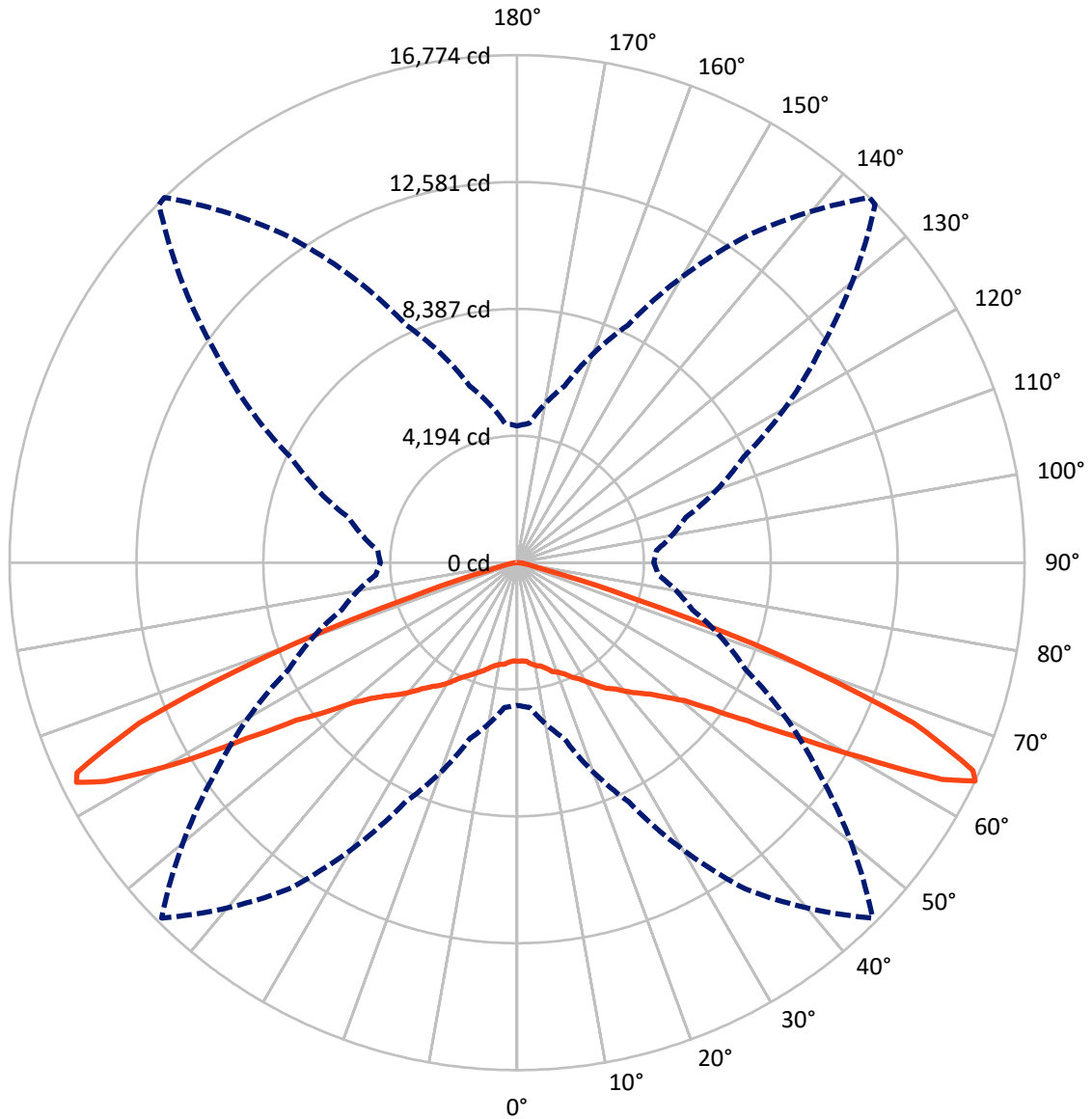
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P478835  
CATALOG NUMBER: IFLD-S-SA6B-727-U-5NQ

### Luminous Intensity Polar Plot



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

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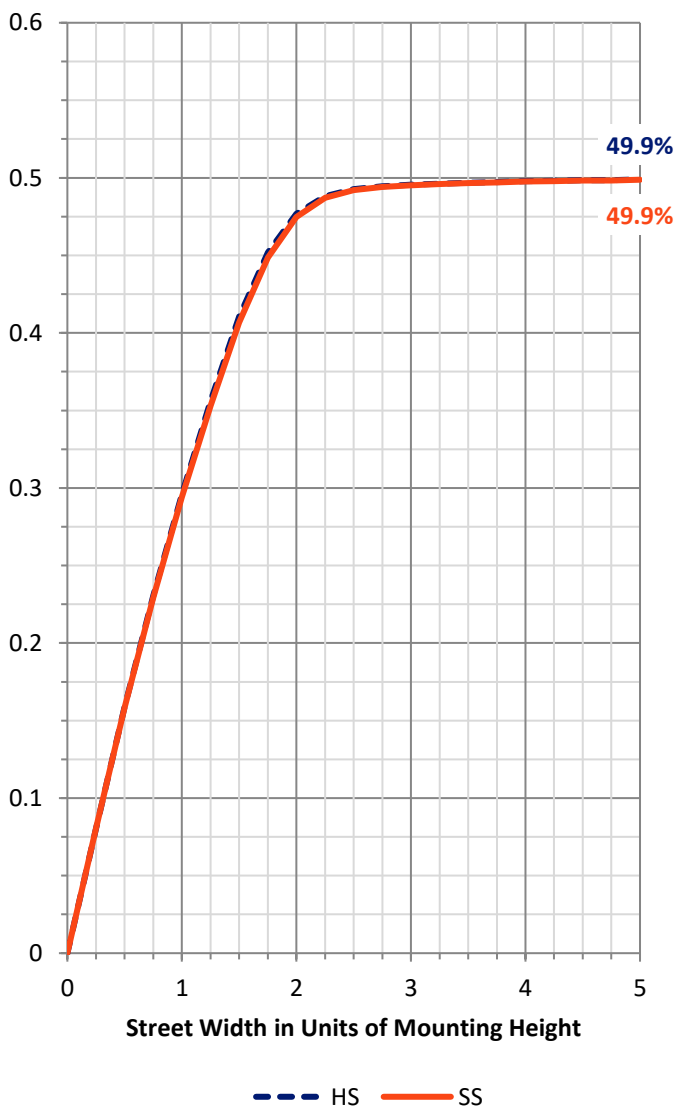
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13934.3	0.0	13934.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13907.8	0.0	13907.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27842.1	0.0	27842.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.3	1.2
10°-20°	1032.3	3.7
20°-30°	1940.1	7.0
30°-40°	3199.6	11.5
40°-50°	5004.0	18.0
50°-60°	8085.2	29.0
60°-70°	7280.2	26.1
70°-80°	862.4	3.1
80°-90°	118.0	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°	27842.1	100.0
0°-180°	27842.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478835

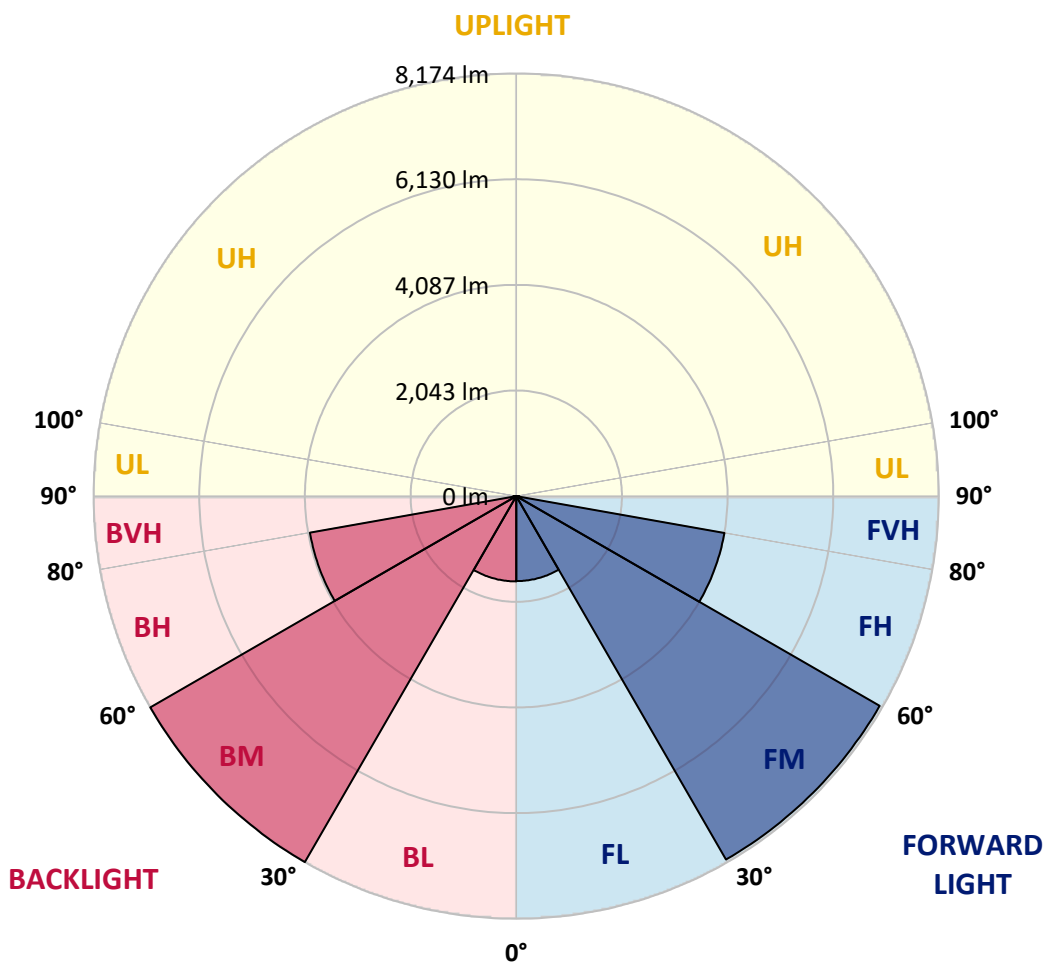
CATALOG NUMBER: IFLD-S-SA6B-727-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1643.2	5.9			
FM (30°-60°)	8115.1	29.1			
FH (60°-80°)	4088.9	14.7			G2/5000
FVH (80°-90°)	60.6	0.2			G1/100
BL (0°-30°)	1649.5	5.9	B3/2500		
BM (30°-60°)	8173.7	29.4	B4/8500		
BH (60°-80°)	4053.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	57.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type V Short





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 CATALOG NUMBER: IFLD-S-SA6B-727-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7
2.5°	3221.4	3227.8	3285.3	3262.9	3282.1	3247.0	3272.5	3326.8	3262.9	3310.8	3326.8
5°	3256.5	3266.1	3266.1	3288.5	3301.2	3294.9	3310.8	3288.5	3349.1	3323.6	3361.9
7.5°	3384.3	3368.3	3342.7	3361.9	3365.1	3381.1	3397.0	3425.8	3416.2	3393.8	3432.1
10°	3406.6	3393.8	3432.1	3435.3	3419.4	3406.6	3422.6	3422.6	3451.3	3457.7	3457.7
12.5°	3444.9	3457.7	3454.5	3480.0	3483.2	3473.6	3499.2	3547.1	3534.3	3543.9	3521.5
15°	3591.8	3575.8	3572.6	3598.2	3639.7	3579.0	3623.7	3620.5	3607.7	3626.9	3575.8
17.5°	3719.5	3668.4	3690.8	3732.3	3716.3	3729.1	3786.5	3735.4	3748.2	3725.9	3709.9
20°	3831.2	3789.7	3792.9	3808.9	3808.9	3847.2	3869.5	3850.4	3837.6	3834.4	3840.8
22.5°	3955.7	3907.9	3911.0	3978.1	4000.4	3987.7	3971.7	4003.6	4010.0	3984.5	4013.2
25°	4048.3	4099.4	4115.4	4147.3	4099.4	4134.5	4121.8	4182.4	4220.7	4169.7	4204.8
27.5°	4291.0	4268.6	4310.1	4306.9	4345.3	4310.1	4332.5	4351.6	4367.6	4370.8	4354.8
30°	4508.1	4517.7	4476.2	4587.9	4498.5	4556.0	4594.3	4603.9	4623.0	4623.0	4575.1
32.5°	4738.0	4718.8	4785.8	4760.3	4744.3	4789.0	4747.5	4878.4	4801.8	4846.5	4792.2
35°	4996.6	4996.6	5022.1	5092.3	4996.6	4967.8	5044.5	5098.7	5098.7	5018.9	5038.1
37.5°	5287.1	5261.6	5293.5	5382.9	5309.4	5213.7	5354.1	5376.5	5360.5	5338.2	5299.9
40°	5491.4	5485.0	5548.9	5667.0	5561.7	5542.5	5568.1	5628.7	5647.9	5670.2	5619.1
42.5°	5836.2	5865.0	6050.1	6021.4	5935.2	5868.2	5861.8	6088.5	6034.2	5976.7	5948.0
45°	6347.1	6321.5	6417.3	6420.5	6308.8	6161.9	6193.8	6401.3	6493.9	6366.2	6414.1
47.5°	6752.5	6765.3	6832.4	6969.6	6711.0	6557.8	6675.9	7011.1	6982.4	6934.5	6979.2
50°	7295.3	7352.8	7563.5	7515.6	7285.7	7097.4	7356.0	7672.0	7707.2	7531.6	7499.6
52.5°	8045.6	8135.0	8249.9	8288.2	8067.9	8000.9	8016.8	8409.5	8323.3	8154.1	8045.6
55°	8703.3	8744.8	8955.5	9271.6	9255.6	8933.1	9118.3	9265.2	8914.0	8566.0	8594.7
57.5°	8984.2	9003.4	9590.8	10223.0	10599.7	10673.2	10462.4	9967.6	9131.1	8460.6	8419.1
60°	8285.0	8467.0	9175.8	10602.9	12323.8	13173.0	11771.5	10047.4	8623.5	7809.3	7748.7
62.5°	6621.6	6631.2	7684.8	9849.5	13396.5	15621.8	12272.7	9297.1	7269.8	6347.1	6104.4
64°	4715.6	4805.0	6015.0	8719.2	13173.0	16618.0	12212.0	8317.0	5992.7	4683.7	4514.5
65°	3384.3	3508.8	4677.3	7569.9	12649.4	16499.8	12030.1	7474.1	4846.5	3575.8	3403.4
67.5°	1245.1	1296.2	1835.8	3786.5	9083.2	14060.6	9533.4	4109.0	2129.5	1516.5	1363.3
70°	577.9	581.1	680.0	1251.5	3971.7	9402.5	4549.6	1542.1	801.4	635.3	590.6
72.5°	424.6	434.2	475.7	577.9	1168.5	3981.3	1494.2	632.2	469.3	415.0	405.5
75°	344.8	351.2	364.0	418.2	539.6	1066.4	606.6	437.4	373.5	335.2	322.5
77.5°	265.0	265.0	293.7	319.3	357.6	498.1	402.3	348.0	303.3	265.0	255.4
80°	191.6	194.8	229.9	249.0	242.6	328.8	290.5	287.3	249.0	207.5	191.6
82.5°	111.7	121.3	166.0	178.8	172.4	194.8	210.7	223.5	194.8	143.7	130.9
85°	63.9	67.0	95.8	99.0	99.0	92.6	121.3	134.1	130.9	89.4	79.8
87.5°	19.2	19.2	25.5	25.5	28.7	31.9	47.9	57.5	63.9	44.7	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478835  
 CATALOG NUMBER: IFLD-S-SA6B-727-U-5NQ

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7	3259.7
2.5°	3310.8	3262.9	3266.1	3278.9	3237.4	3253.4	3301.2	3266.1	3256.5	3237.4	3227.8
5°	3294.9	3345.9	3326.8	3333.2	3323.6	3278.9	3272.5	3301.2	3317.2	3288.5	3345.9
7.5°	3406.6	3384.3	3358.7	3368.3	3345.9	3384.3	3409.8	3352.3	3381.1	3365.1	3333.2
10°	3470.5	3429.0	3448.1	3441.7	3425.8	3464.1	3438.5	3432.1	3406.6	3371.5	3422.6
12.5°	3492.8	3540.7	3572.6	3518.3	3527.9	3508.8	3492.8	3492.8	3464.1	3454.5	3464.1
15°	3591.8	3633.3	3620.5	3662.0	3607.7	3626.9	3646.1	3598.2	3623.7	3553.5	3607.7
17.5°	3773.8	3738.6	3783.3	3729.1	3748.2	3786.5	3725.9	3725.9	3745.0	3706.7	3658.8
20°	3888.7	3872.7	3856.8	3860.0	3828.0	3863.2	3844.0	3834.4	3805.7	3818.5	3844.0
22.5°	3997.2	3974.9	3981.3	3990.9	4013.2	3997.2	3987.7	3997.2	3927.0	3990.9	3901.5
25°	4131.3	4192.0	4172.8	4214.4	4150.5	4192.0	4188.8	4128.1	4166.5	4140.9	4121.8
27.5°	4354.8	4322.9	4351.6	4300.6	4345.3	4348.4	4310.1	4412.3	4367.6	4361.2	4348.4
30°	4642.2	4619.8	4600.7	4571.9	4607.1	4578.3	4610.2	4619.8	4578.3	4546.4	4485.7
32.5°	4805.0	4865.7	4888.0	4817.8	4821.0	4836.9	4808.2	4779.5	4805.0	4814.6	4805.0
35°	5034.9	5092.3	5105.1	5050.8	5022.1	5101.9	5044.5	5140.2	5057.2	5060.4	4974.2
37.5°	5303.1	5319.0	5427.6	5366.9	5341.4	5303.1	5408.4	5395.6	5414.8	5261.6	5338.2
40°	5606.4	5663.8	5724.5	5571.2	5568.1	5603.2	5596.8	5670.2	5635.1	5612.8	5558.5
42.5°	5938.4	6059.7	6069.3	5967.1	5903.3	5896.9	5928.8	6091.7	6094.8	5948.0	5884.1
45°	6379.0	6513.1	6478.0	6280.0	6209.8	6200.2	6356.6	6426.9	6487.5	6430.1	6375.8
47.5°	6928.1	7017.5	6992.0	6810.0	6583.3	6647.2	6800.4	7020.7	6956.9	6880.2	6816.4
50°	7515.6	7621.0	7566.7	7384.7	7167.6	7167.6	7356.0	7636.9	7617.8	7467.7	7410.2
52.5°	8166.9	8320.2	8444.7	8186.1	8004.1	8032.8	8329.7	8431.9	8384.0	8278.6	8230.8
55°	8652.2	8945.9	9201.3	9214.1	9223.7	9220.5	9297.1	9399.3	9057.7	8888.5	8716.0
57.5°	8534.1	9089.6	9964.4	10558.2	10733.8	10826.4	10800.9	10328.4	9520.6	8965.1	9022.5
60°	7691.2	8597.9	10009.1	11915.1	13192.2	13064.5	12598.4	10730.6	9265.2	8326.5	8208.4
62.5°	6136.4	7228.3	9258.8	12298.2	15816.6	15778.3	13339.1	9801.6	7719.9	6532.2	6458.8
64°	4623.0	5772.4	8259.5	12199.3	16736.1	16774.4	13150.7	8658.6	6040.6	4623.0	4511.3
65°	3537.5	4603.9	7279.3	11994.9	16538.1	16560.5	12627.1	7477.3	4591.1	3282.1	3160.8
67.5°	1408.0	1960.3	3949.4	9096.0	14201.1	14140.4	9009.8	3617.3	1756.0	1143.0	1120.6
70°	600.2	747.1	1385.6	4310.1	9507.8	9332.2	3879.1	1174.9	651.3	546.0	542.8
72.5°	411.9	456.6	593.8	1331.4	3952.6	3860.0	1104.7	546.0	443.8	408.7	408.7
75°	332.0	364.0	431.0	558.7	1047.2	1008.9	520.4	402.3	354.4	328.8	325.7
77.5°	258.6	290.5	338.4	386.3	478.9	475.7	348.0	303.3	274.6	255.4	249.0
80°	204.3	236.3	268.2	274.6	312.9	306.5	236.3	239.5	223.5	185.2	182.0
82.5°	140.5	191.6	213.9	194.8	185.2	185.2	169.2	169.2	156.4	114.9	105.4
85°	86.2	127.7	134.1	114.9	86.2	86.2	92.6	89.4	83.0	60.7	57.5
87.5°	44.7	60.7	54.3	44.7	28.7	28.7	25.5	19.2	19.2	16.0	16.0
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)