

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: P268882

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5MQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35429.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 323
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: 28.75 FT

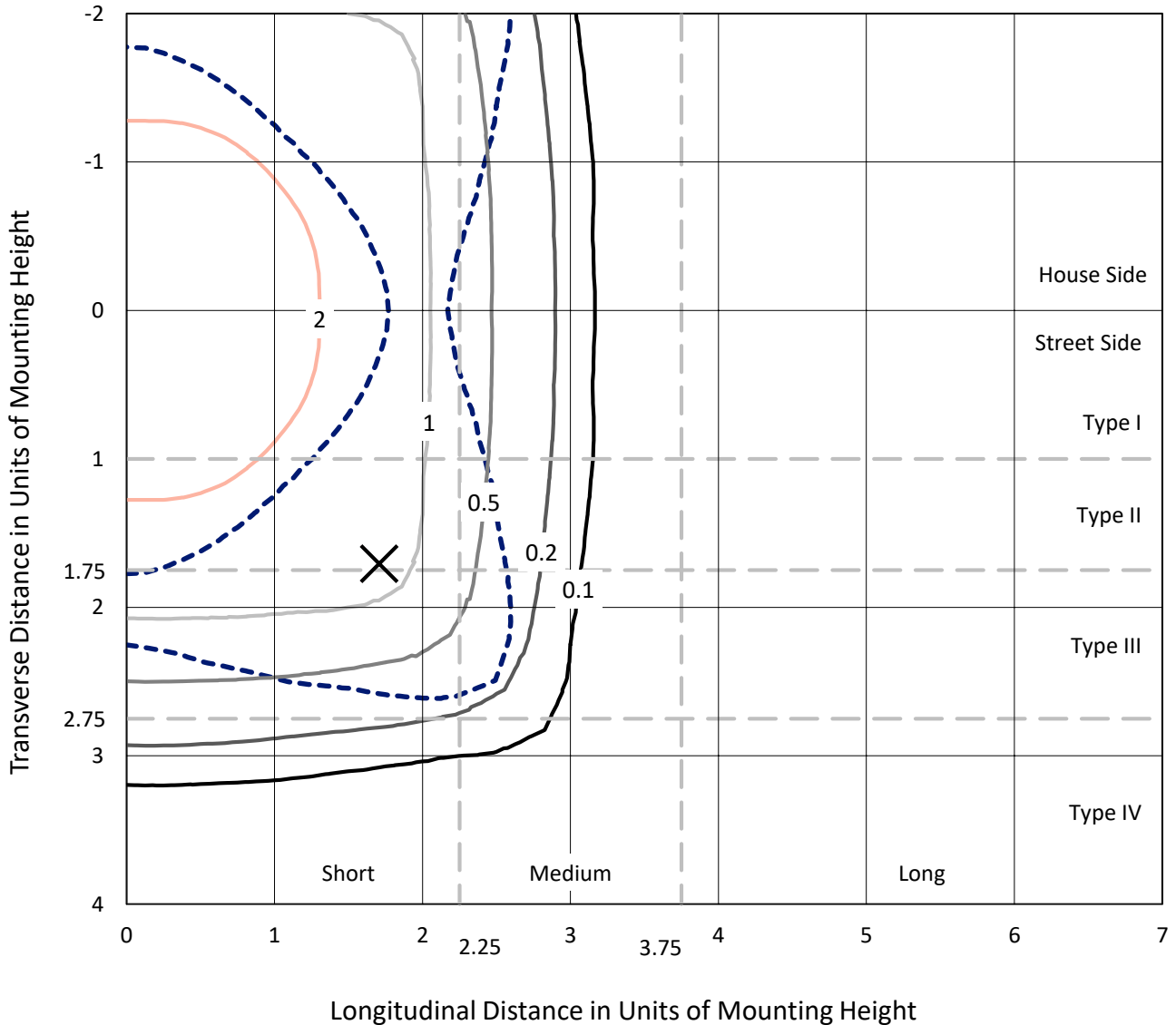


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

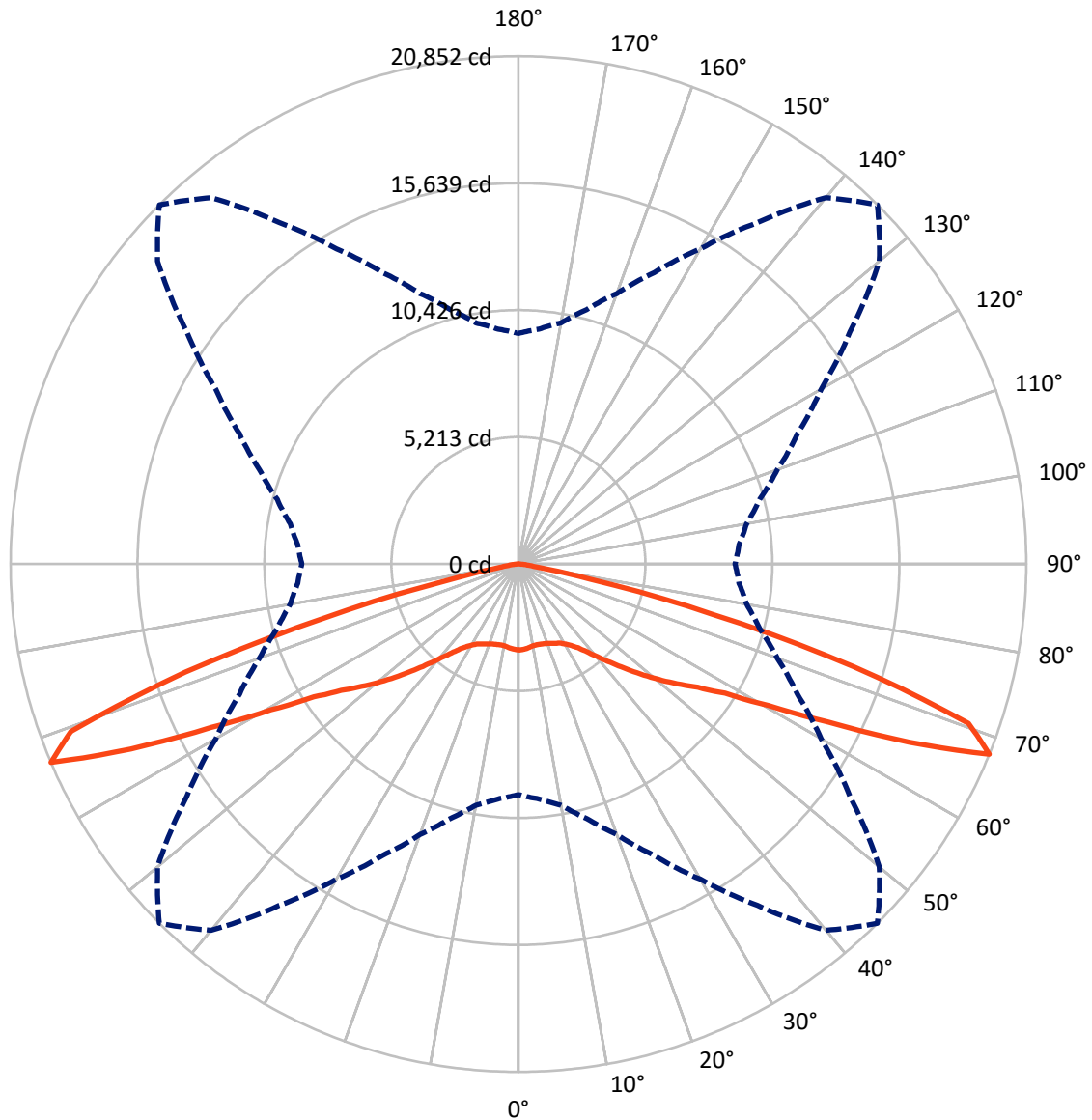


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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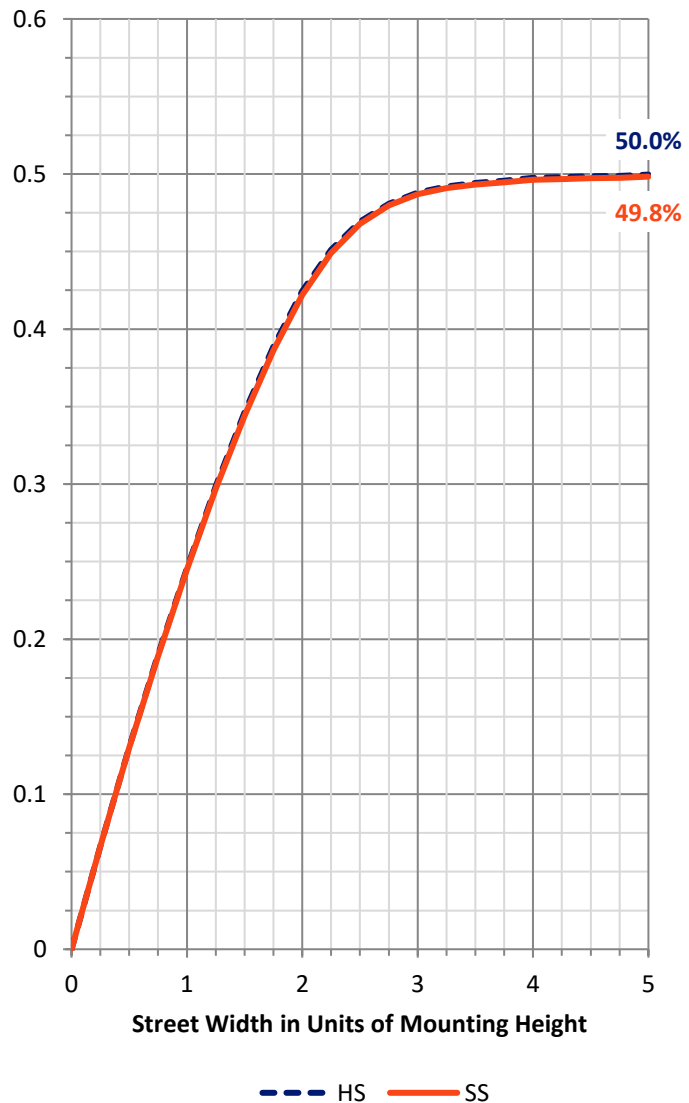
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17714.7	0.0	17714.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17714.7	0.0	17714.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	35429.5	0.0	35429.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.5	0.9
10°-20°	958.9	2.7
20°-30°	1630.2	4.6
30°-40°	2664.8	7.5
40°-50°	4757.1	13.4
50°-60°	8020.7	22.6
60°-70°	12446.9	35.1
70°-80°	4373.3	12.3
80°-90°	247.1	0.7
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°	35429.5	100.0
0°-180°	35429.5	100.0



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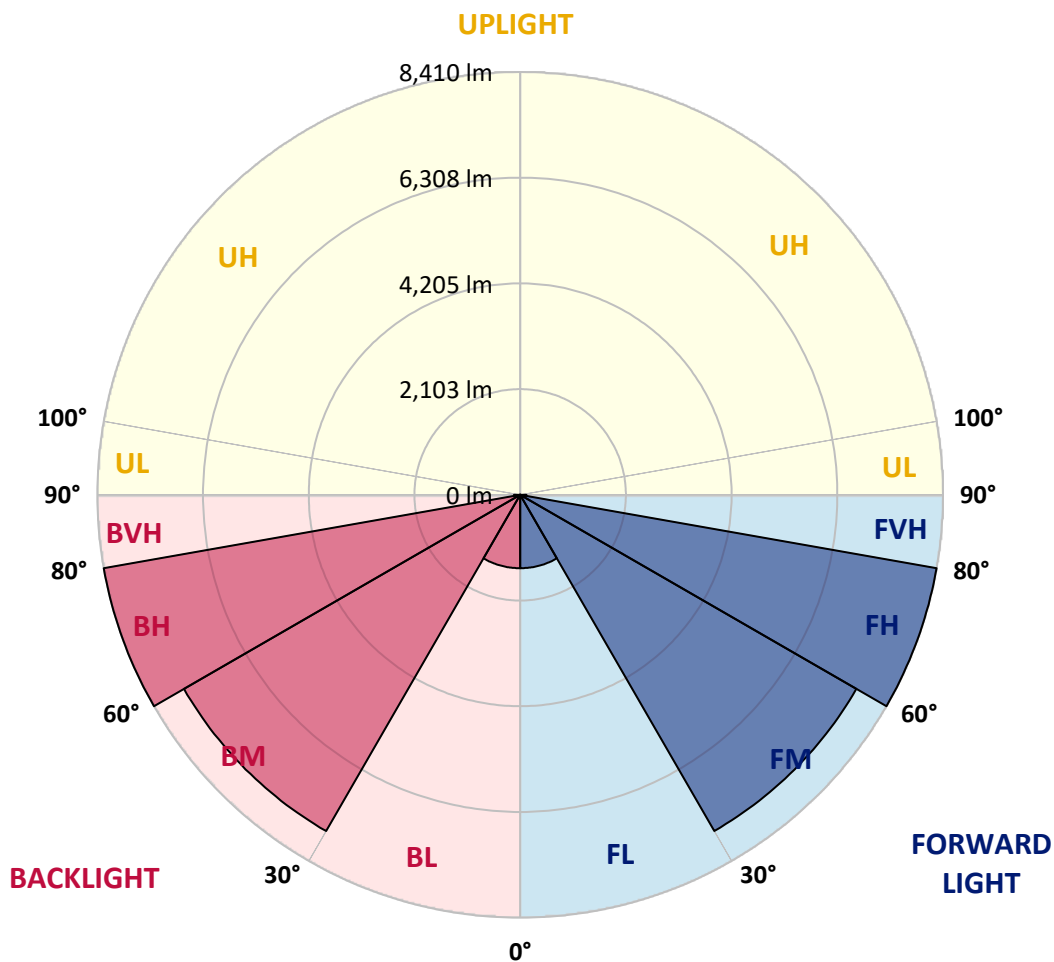
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1459.8	4.1			
FM	(30°-60°)	7721.3	21.8			
FH	(60°-80°)	8410.1	23.7			G4/12000
FVH	(80°-90°)	123.6	0.3			G2/225
BL	(0°-30°)	1459.8	4.1	B3/2500		
BM	(30°-60°)	7721.3	21.8	B4/8500		
BH	(60°-80°)	8410.1	23.7	B5		G4/12000
BVH	(80°-90°)	123.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7
2.5°	3517.7	3520.9	3520.9	3520.9	3519.3	3519.3	3516.1	3519.3	3517.7	3512.8	3514.3
5°	3488.4	3491.6	3491.6	3489.9	3494.9	3493.1	3488.4	3491.6	3489.9	3486.7	3488.4
7.5°	3446.0	3450.8	3450.8	3449.2	3454.2	3452.5	3449.2	3450.8	3450.8	3446.0	3446.0
10°	3398.7	3402.1	3402.1	3400.4	3408.4	3408.4	3406.9	3411.8	3413.4	3408.4	3405.2
12.5°	3354.7	3359.7	3359.7	3366.2	3374.4	3377.5	3385.7	3392.2	3398.7	3397.1	3390.7
15°	3328.7	3332.0	3338.5	3346.5	3359.7	3371.0	3384.1	3398.7	3411.8	3415.0	3405.2
17.5°	3312.4	3317.4	3327.1	3338.5	3356.3	3375.9	3395.5	3415.0	3433.0	3439.5	3428.0
20°	3307.5	3310.8	3320.6	3340.1	3364.5	3393.8	3421.6	3444.3	3468.7	3476.9	3468.7
22.5°	3317.4	3323.8	3335.1	3358.0	3390.7	3428.0	3460.6	3491.6	3522.6	3537.3	3525.8
25°	3361.3	3367.7	3382.5	3411.8	3447.7	3486.7	3524.2	3560.1	3587.7	3602.5	3594.3
27.5°	3442.8	3450.8	3468.7	3498.1	3537.3	3579.6	3620.3	3649.6	3672.5	3677.3	3667.6
30°	3565.0	3582.8	3604.0	3636.6	3682.2	3718.1	3758.8	3784.9	3812.5	3812.5	3804.4
32.5°	3755.5	3773.5	3796.2	3827.1	3863.2	3902.1	3938.0	3960.8	3990.2	3991.8	3972.2
35°	4040.7	4048.8	4068.3	4087.9	4120.5	4154.8	4185.7	4200.4	4224.8	4226.4	4208.5
37.5°	4417.1	4418.7	4431.7	4438.3	4467.5	4505.0	4534.4	4544.2	4567.0	4563.7	4545.8
40°	4855.2	4863.5	4868.4	4878.2	4909.1	4944.9	4975.9	4980.8	5005.3	5000.3	4977.5
42.5°	5362.1	5365.2	5393.0	5407.6	5437.0	5454.9	5494.0	5499.0	5528.2	5515.2	5489.2
45°	5930.7	5960.0	5986.0	6015.4	6046.3	6067.5	6098.5	6091.9	6111.4	6091.9	6077.4
47.5°	6528.6	6549.8	6608.4	6654.0	6704.6	6722.5	6766.6	6746.9	6766.6	6738.7	6734.0
50°	7186.9	7224.3	7274.8	7326.9	7380.7	7410.1	7467.2	7442.6	7468.7	7442.6	7427.9
52.5°	7835.3	7845.1	7955.8	8032.5	8107.5	8141.6	8175.8	8164.4	8166.0	8164.4	8149.8
55°	8451.3	8474.0	8584.8	8689.0	8819.4	8915.6	8974.2	8967.7	8953.0	8938.3	8913.9
57.5°	9145.3	9168.1	9295.2	9423.8	9572.2	9709.1	9827.9	9950.2	9997.3	10010.4	9956.6
60°	10083.7	10082.1	10251.5	10408.0	10619.9	10823.5	11084.1	11349.7	11654.4	11796.2	11608.7
62.5°	11038.6	11077.5	11322.1	11599.0	12035.8	12460.8	12941.5	13414.1	13896.3	14289.0	13871.8
65°	10924.5	11074.3	11437.7	12065.0	12871.5	13829.5	14865.8	15962.3	16953.0	17634.0	16869.8
67.5°	9467.9	9681.4	10051.1	10813.6	11822.2	13203.8	14943.9	17112.6	19633.0	20851.8	19341.4
70°	6862.6	7103.7	7491.5	8236.1	9234.8	10548.1	12438.1	15041.7	18378.6	19607.0	17943.6
72.5°	3415.0	3545.4	3784.9	4259.0	5015.0	6080.5	7794.7	10297.2	13249.6	14377.0	12856.8
75°	1160.2	1220.3	1261.1	1415.9	1655.3	2074.0	2926.1	4501.8	6867.5	8232.8	6769.7
77.5°	669.6	671.3	699.1	726.6	767.4	813.1	927.1	1217.2	2105.1	2989.7	2178.4
80°	433.4	431.7	454.6	475.7	503.5	526.2	532.8	563.7	650.2	770.7	689.2
82.5°	224.8	252.6	303.1	330.8	382.9	392.6	379.7	368.2	389.4	404.1	413.8
85°	123.8	107.5	161.2	208.5	231.4	234.5	234.5	221.6	229.7	224.8	244.3
87.5°	57.0	52.1	63.5	102.6	109.1	92.9	97.7	86.3	62.0	60.2	68.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7
2.5°	3514.3	3516.1	3516.1	3520.9	3522.6	3525.8	3529.1	3530.7
5°	3486.7	3491.6	3488.4	3493.1	3493.1	3496.6	3496.6	3498.1
7.5°	3446.0	3450.8	3450.8	3450.8	3449.2	3454.2	3454.2	3454.2
10°	3403.6	3406.9	3405.2	3402.1	3398.7	3403.6	3402.1	3400.4
12.5°	3390.7	3382.5	3375.9	3372.6	3366.2	3367.7	3362.9	3362.9
15°	3398.7	3384.1	3372.6	3367.7	3361.3	3358.0	3354.7	3356.3
17.5°	3419.8	3402.1	3387.2	3379.2	3371.0	3366.2	3359.7	3361.3
20°	3457.3	3436.1	3415.0	3398.7	3384.1	3375.9	3371.0	3369.5
22.5°	3512.8	3481.8	3450.8	3426.4	3406.9	3395.5	3390.7	3387.2
25°	3576.3	3542.0	3506.3	3478.5	3459.1	3444.3	3434.6	3434.6
27.5°	3656.1	3628.4	3595.8	3563.2	3545.4	3530.7	3524.2	3520.9
30°	3789.8	3763.7	3737.6	3706.6	3683.9	3669.1	3657.8	3647.9
32.5°	3960.8	3939.6	3918.4	3895.7	3874.5	3854.9	3837.0	3828.8
35°	4202.0	4185.7	4171.0	4145.0	4136.9	4125.3	4115.7	4107.5
37.5°	4534.4	4527.8	4527.8	4500.1	4493.6	4488.7	4478.9	4480.6
40°	4971.0	4977.5	4969.3	4959.6	4954.7	4941.7	4941.7	4953.1
42.5°	5487.4	5492.3	5510.4	5494.0	5511.9	5495.7	5485.9	5494.0
45°	6087.1	6105.1	6140.9	6124.6	6136.0	6108.2	6074.0	6075.6
47.5°	6759.9	6776.3	6790.9	6779.5	6781.1	6735.5	6689.9	6678.4
50°	7458.9	7465.5	7473.5	7457.3	7460.6	7410.1	7357.9	7359.5
52.5°	8149.8	8180.8	8213.4	8169.4	8159.6	8102.5	8029.2	7999.9
55°	8940.0	8983.9	8946.5	8870.0	8793.4	8716.8	8620.7	8604.3
57.5°	9914.4	9839.3	9722.0	9577.0	9471.1	9363.7	9265.8	9225.1
60°	11269.9	10988.0	10776.2	10561.2	10425.9	10293.9	10165.2	10145.6
62.5°	13186.0	12698.8	12276.7	11831.9	11468.8	11185.2	10958.8	10895.2
65°	15587.6	14435.7	13436.8	12504.9	11695.2	11084.1	10699.6	10530.2
67.5°	16620.5	14346.0	12633.7	11310.6	10251.5	9511.9	9096.3	8889.4
70°	14605.1	11897.2	10034.8	8710.2	7745.7	6957.2	6580.8	6359.2
72.5°	10047.9	7568.1	5984.4	4884.7	4114.0	3454.2	3193.5	3173.9
75°	4511.6	2988.1	2059.5	1586.9	1336.0	1161.7	1107.9	1067.1
77.5°	1262.7	933.6	832.5	778.8	726.6	666.5	643.5	648.4
80°	614.3	580.0	557.2	523.1	475.7	425.3	402.4	412.2
82.5°	407.3	402.4	417.2	392.6	324.2	275.3	231.4	211.8
85°	247.7	250.8	255.7	257.5	218.3	153.2	104.3	117.3
87.5°	97.7	112.4	122.2	127.1	118.9	73.3	58.7	60.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)