

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: P321639

Luminaire Tested: **GAN-SA5B-750-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-750-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21967 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

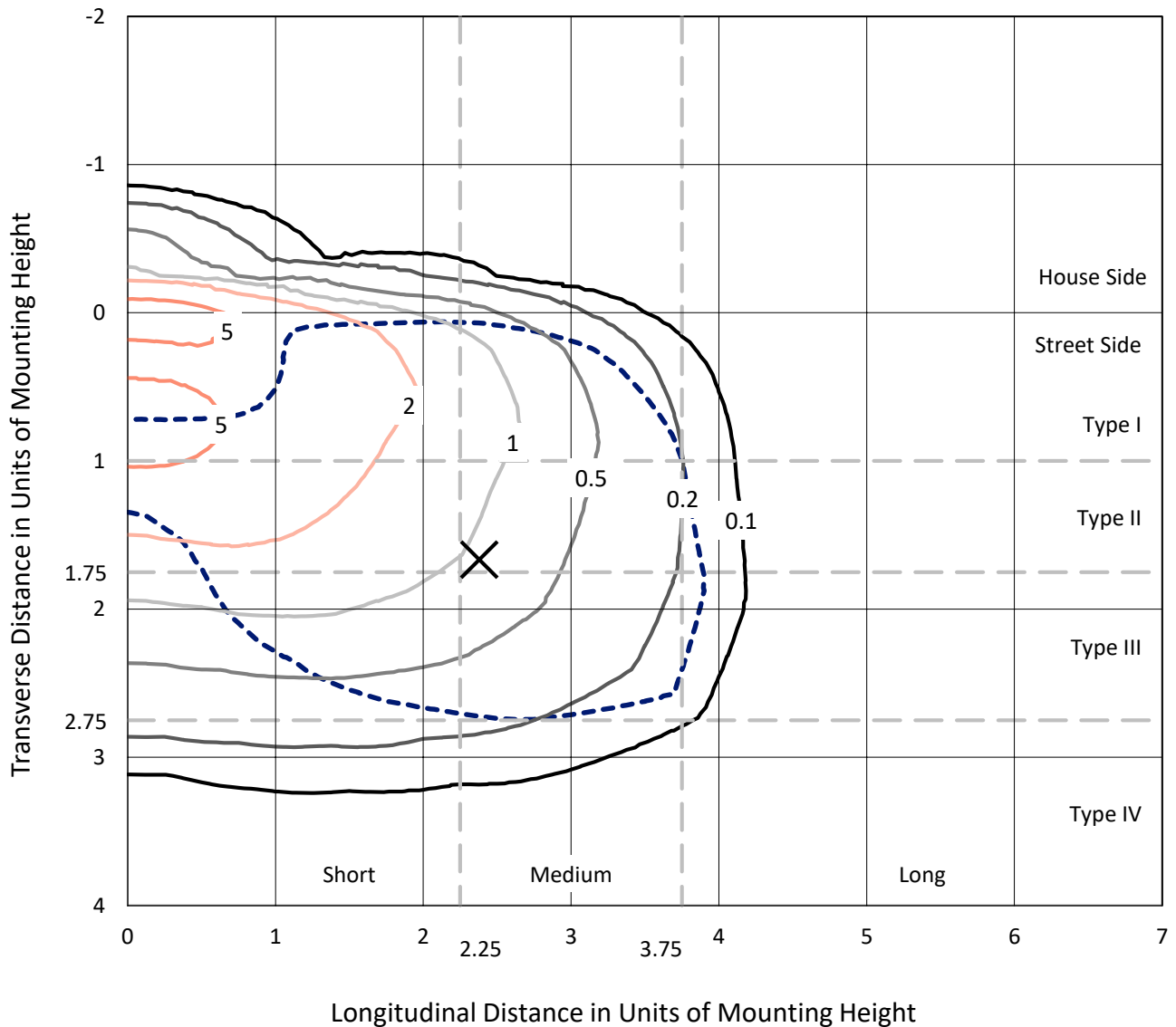
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

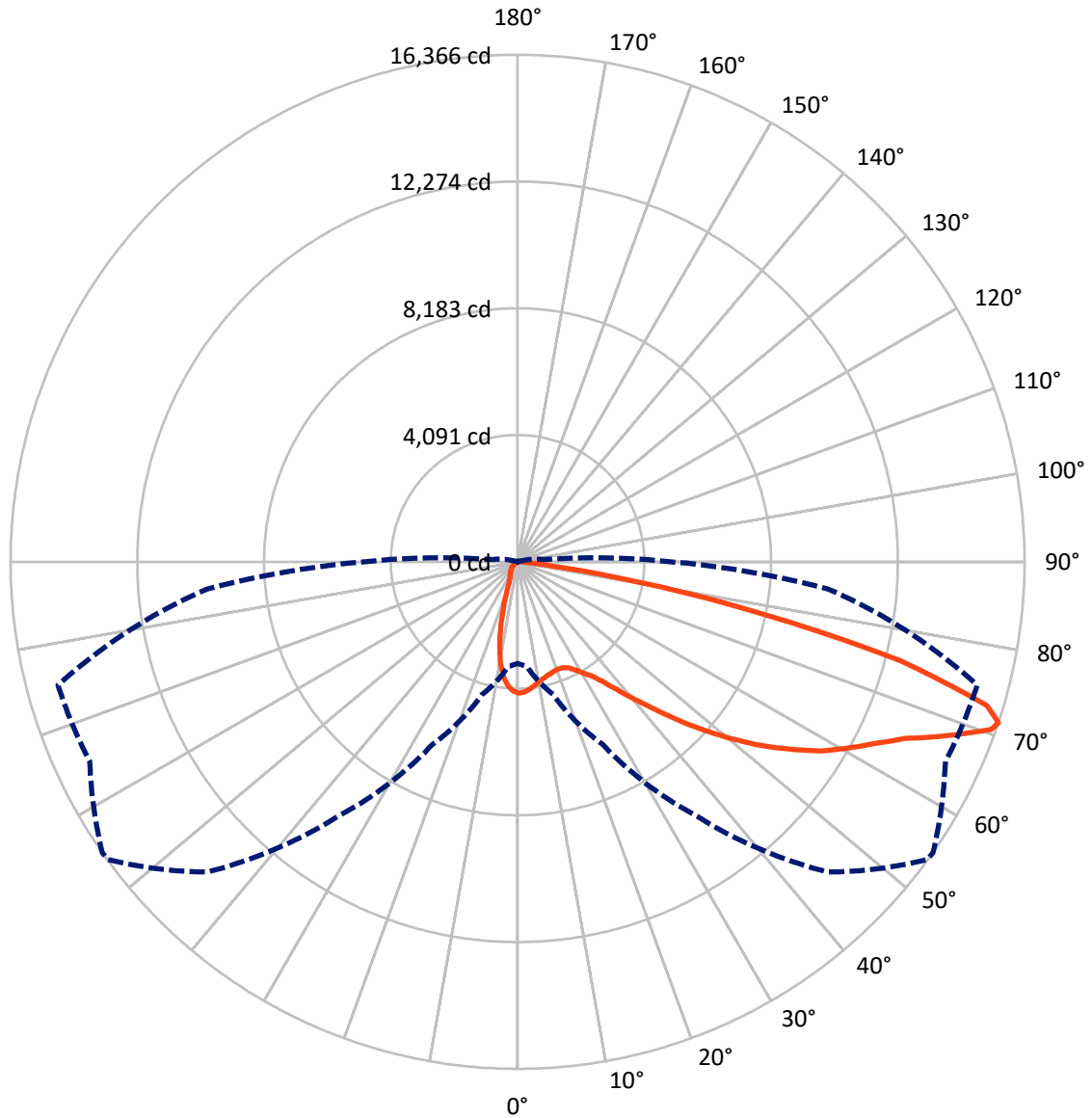
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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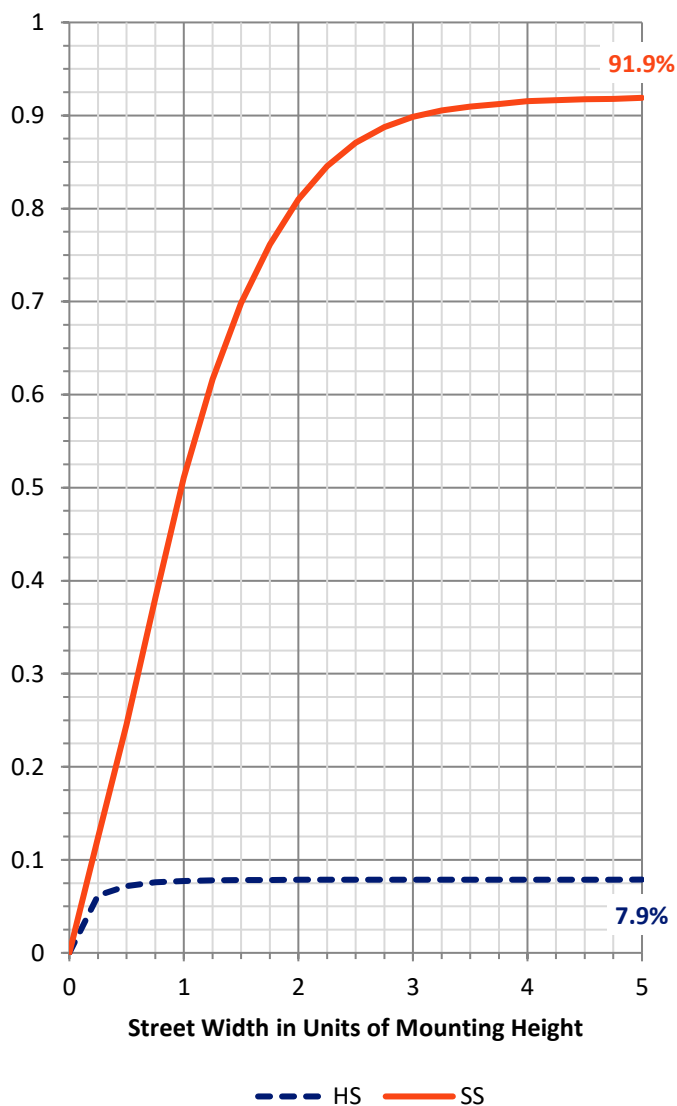
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1739.2	0.0	1739.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	20227.8	0.0	20227.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	21967.0	0.0	21967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.2	1.6
10°-20°	815.5	3.7
20°-30°	1310.5	6.0
30°-40°	2226.6	10.1
40°-50°	3455.9	15.7
50°-60°	4646.4	21.2
60°-70°	5684.0	25.9
70°-80°	3323.3	15.1
80°-90°	143.7	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°	21967.0	100.0
0°-180°	21967.0	100.0

Coefficient of Utilization

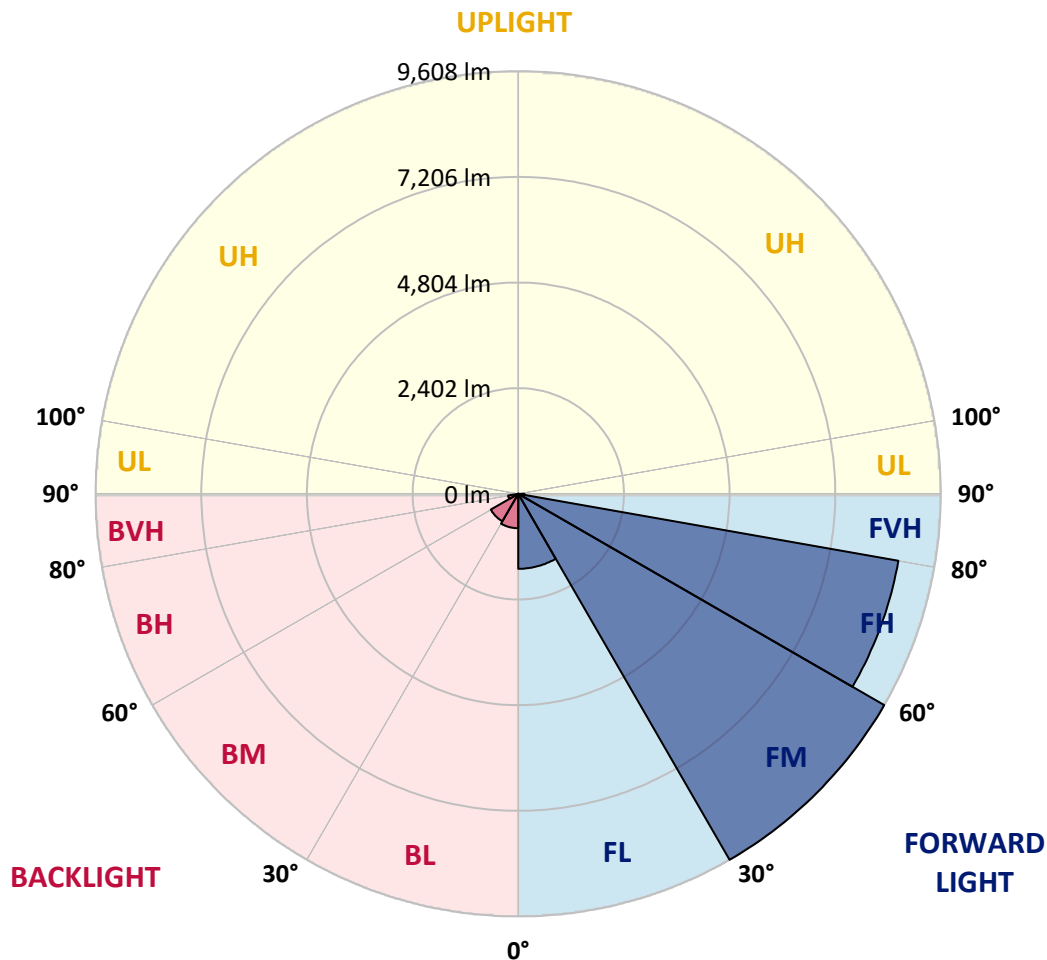


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1704.3	7.8			
FM (30°-60°)	9607.7	43.7			
FH (60°-80°)	8774.4	39.9			G4/12000
FVH (80°-90°)	141.4	0.6			G2/225
BL (0°-30°)	782.8	3.6	B2/1000		
BM (30°-60°)	721.1	3.3	B1/1000		
BH (60°-80°)	233.0	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4112.1	4117.1	4134.8	4142.7	4161.5	4193.0	4208.8	4209.8	4235.4	4245.3	4253.2
5°	3821.2	3850.7	3880.3	3911.9	3969.1	4045.1	4120.0	4126.9	4209.8	4270.9	4303.5
7.5°	3570.6	3597.3	3632.8	3683.1	3763.9	3883.3	4008.6	4023.4	4180.2	4319.3	4392.3
10°	3313.2	3334.9	3386.2	3460.1	3571.6	3731.4	3900.1	3924.7	4153.6	4384.4	4512.6
12.5°	3038.0	3050.8	3113.0	3219.5	3383.2	3586.4	3808.3	3840.9	4136.8	4459.3	4654.6
15°	2828.9	2834.8	2894.0	3004.5	3191.9	3456.2	3737.3	3776.8	4140.7	4549.1	4809.5
17.5°	2775.6	2778.6	2810.1	2886.1	3051.8	3339.8	3681.1	3729.4	4152.6	4636.9	4965.3
20°	2991.6	2970.9	2938.4	2926.5	2997.5	3269.8	3647.6	3701.8	4168.4	4714.8	5105.4
22.5°	3584.4	3523.3	3388.1	3207.6	3098.2	3274.7	3656.4	3710.7	4218.7	4810.5	5267.2
25°	4464.3	4379.4	4149.6	3794.5	3453.2	3416.7	3730.4	3785.6	4316.3	4924.9	5422.0
27.5°	5465.4	5381.6	5100.5	4593.5	4011.5	3697.9	3900.1	3951.4	4461.3	5026.5	5540.4
30°	6424.2	6400.5	6069.1	5493.0	4713.8	4153.6	4119.0	4162.4	4568.8	5087.6	5634.1
32.5°	7236.9	7199.4	6933.1	6372.9	5517.7	4701.0	4376.5	4389.3	4649.7	5166.6	5756.4
35°	7990.5	7944.1	7710.4	7180.7	6342.3	5369.7	4773.0	4754.3	4826.3	5325.4	5933.9
37.5°	8648.4	8690.8	8431.4	7927.4	7082.1	6065.1	5307.6	5251.4	5102.4	5583.8	6191.4
40°	9198.8	9198.8	9063.7	8643.5	7881.0	6784.2	5912.2	5838.3	5517.7	5982.3	6517.9
42.5°	9397.0	9439.5	9489.8	9252.1	8596.1	7531.8	6585.9	6509.0	6102.6	6547.5	6930.2
45°	9408.9	9476.0	9733.4	9732.4	9242.2	8274.6	7345.4	7308.9	6852.2	7273.4	7441.1
47.5°	9242.2	9326.0	9750.2	9990.8	9754.1	8966.0	8175.9	8130.6	7733.1	8163.1	7975.7
50°	8984.8	9077.5	9570.6	10092.4	10102.3	9567.7	9050.8	8982.8	8702.7	9180.0	8528.1
52.5°	8524.1	8703.6	9409.9	10116.1	10331.1	10087.5	9883.3	9853.7	9787.6	10159.5	8968.0
55°	7538.7	7738.0	9006.5	10124.0	10543.2	10548.1	10663.5	10671.4	10804.6	11074.8	9295.5
57.5°	7073.2	7185.6	8302.2	10161.5	10857.8	11070.9	11458.5	11519.7	11725.8	11943.8	9669.3
60°	6780.2	6913.4	7955.0	10110.2	11352.0	11756.4	12195.4	12216.1	12437.0	12840.4	10175.3
62.5°	6546.5	6677.7	7736.0	9912.9	11907.3	12581.0	12915.4	12917.4	13083.1	13908.7	10750.3
65°	5969.4	6079.9	7293.1	9691.0	12274.3	13396.7	13751.8	13739.0	13874.1	15035.1	11418.1
67.5°	5135.0	5219.8	6388.7	8849.6	12136.2	14138.5	15014.4	14972.0	14808.2	16008.6	11680.5
70°	3970.1	4000.7	5035.4	7375.0	10842.1	14423.5	16234.5	16212.8	15381.3	15834.0	10718.8
71°	3281.6	3382.2	4437.6	6509.0	9975.1	14160.2	16352.9	16365.7	15237.3	15358.6	10056.9
72.5°	1905.6	1991.5	3216.5	4998.9	8468.9	13061.4	15739.3	15832.1	14564.6	13969.8	8590.2
75°	408.4	437.0	1192.5	2419.5	4658.6	9154.4	12423.2	12753.6	11870.8	9503.6	5177.4
77.5°	284.1	306.8	510.9	1097.8	1539.7	4523.4	7717.3	8090.1	7091.9	3571.6	1657.1
80°	224.9	250.5	398.5	542.5	416.2	1458.8	3615.0	3842.9	2365.3	797.0	279.1
82.5°	125.3	148.9	310.7	292.9	159.8	277.2	1012.0	1144.2	473.5	160.8	66.1
85°	36.5	44.4	200.2	213.1	68.1	53.3	172.6	214.0	89.8	42.4	29.6
87.5°	0.0	0.0	96.7	81.9	19.7	7.9	15.8	17.8	17.8	17.8	19.7
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°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4253.2	4260.1	4235.4	4202.9	4168.4	4125.9	4081.6	4047.0	4046.0	4029.3	4012.5
5°	4305.5	4301.5	4233.5	4129.9	4007.6	3880.3	3759.0	3621.9	3576.5	3520.3	3501.6
7.5°	4402.1	4374.5	4230.5	4003.6	3735.3	3469.0	3193.8	2916.7	2798.3	2691.8	2673.0
10°	4523.4	4471.2	4211.8	3814.3	3322.1	2830.9	2415.6	2038.8	1873.1	1745.9	1739.9
12.5°	4649.7	4569.8	4159.5	3528.2	2780.5	2090.1	1611.7	1240.8	1102.8	1014.0	1021.9
15°	4781.9	4662.5	4047.0	3142.5	2164.1	1418.4	990.3	772.3	717.1	694.4	700.3
17.5°	4917.0	4726.6	3890.2	2678.0	1555.5	915.3	685.5	624.4	624.4	629.3	631.3
20°	5034.4	4761.2	3659.4	2157.2	1054.4	666.8	599.7	590.8	595.8	603.7	604.6
22.5°	5150.8	4763.1	3358.6	1629.5	737.8	583.9	571.1	567.2	570.1	579.0	580.0
25°	5245.5	4739.5	2981.8	1159.0	588.9	550.4	544.5	542.5	544.5	555.3	555.3
27.5°	5283.9	4653.6	2522.1	814.7	527.7	512.9	510.9	512.9	515.9	523.8	524.7
30°	5287.9	4503.7	2021.1	589.8	478.4	462.6	466.5	473.5	470.5	468.5	470.5
32.5°	5297.7	4330.1	1532.8	485.3	437.0	412.3	407.4	407.4	395.5	388.6	384.7
35°	5330.3	4125.9	1111.6	436.0	394.5	365.9	347.2	325.5	302.8	291.0	288.0
37.5°	5381.6	3911.9	796.0	403.4	357.1	324.5	289.0	250.5	218.0	209.1	209.1
40°	5475.3	3691.0	588.9	377.8	327.5	287.0	233.8	183.5	153.9	148.9	148.9
42.5°	5623.2	3458.2	469.5	355.1	301.8	248.6	178.5	133.2	111.5	108.5	107.5
45°	5777.1	3201.7	410.3	333.4	274.2	204.2	132.2	98.6	85.8	82.9	82.9
47.5°	5931.0	2928.5	381.7	312.7	247.6	158.8	98.6	77.9	72.0	72.0	73.0
50°	6061.2	2643.4	361.0	290.0	213.1	120.3	77.9	66.1	64.1	68.1	69.0
52.5°	6093.7	2363.3	335.4	261.4	170.6	91.7	64.1	58.2	58.2	58.2	58.2
55°	6074.0	2146.3	301.8	225.9	126.3	73.0	55.2	51.3	50.3	50.3	50.3
57.5°	6141.1	2018.1	241.7	175.6	90.7	59.2	48.3	45.4	43.4	42.4	42.4
60°	6276.2	1934.3	172.6	126.3	68.1	49.3	41.4	38.5	35.5	33.5	33.5
62.5°	6455.7	1861.3	128.2	93.7	52.3	39.5	34.5	31.6	27.6	25.6	25.6
65°	6593.8	1731.1	97.6	70.0	39.5	31.6	26.6	25.6	19.7	17.8	16.8
67.5°	6382.7	1445.0	78.9	51.3	29.6	24.7	20.7	19.7	11.8	9.9	9.9
70°	5474.3	1006.1	63.1	37.5	21.7	19.7	16.8	12.8	8.9	7.9	7.9
71°	4964.3	840.4	57.2	31.6	18.7	18.7	15.8	10.8	7.9	6.9	6.9
72.5°	4124.0	596.7	48.3	24.7	16.8	19.7	16.8	9.9	7.9	6.9	5.9
75°	2393.9	249.5	33.5	16.8	12.8	23.7	21.7	8.9	5.9	4.9	4.9
77.5°	720.0	91.7	18.7	10.8	9.9	20.7	24.7	7.9	3.0	1.0	1.0
80°	131.2	39.5	11.8	6.9	6.9	12.8	18.7	3.9	0.0	0.0	0.0
82.5°	46.4	19.7	6.9	3.9	3.0	5.9	8.9	0.0	0.0	0.0	0.0
85°	26.6	13.8	3.9	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)