

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: P383434

Luminaire Tested: **GAN-SA7B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26740.1 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

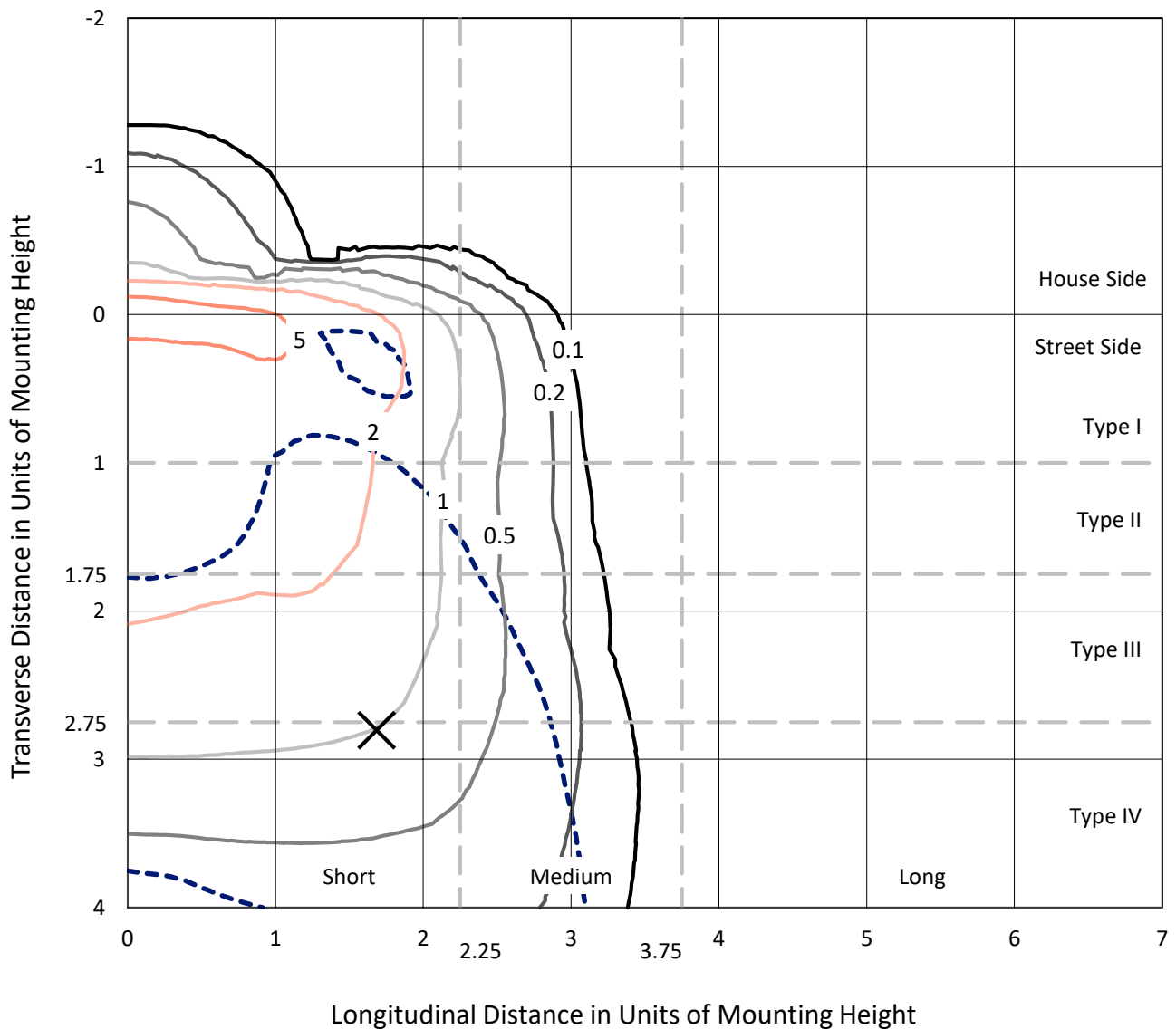
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

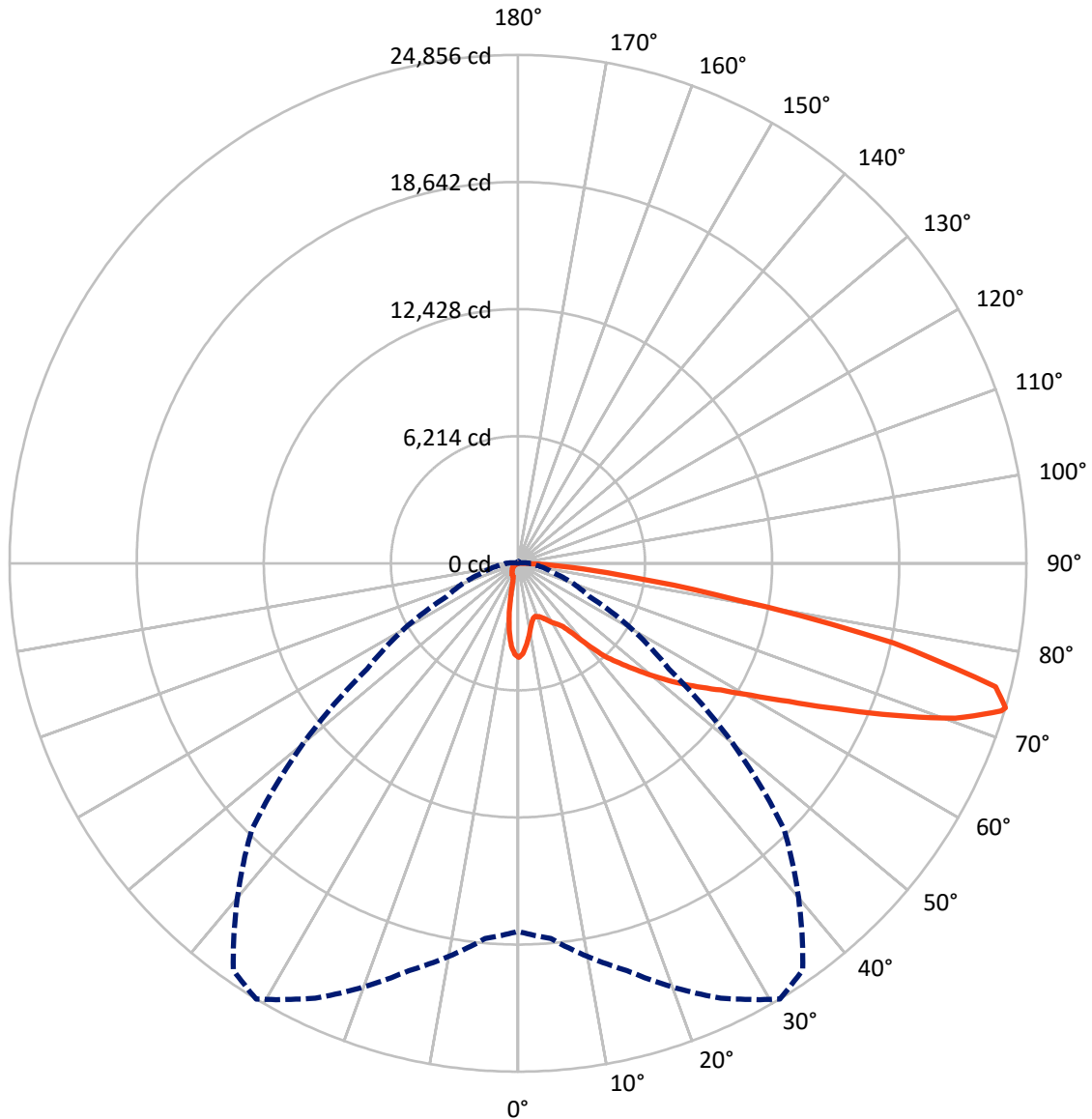
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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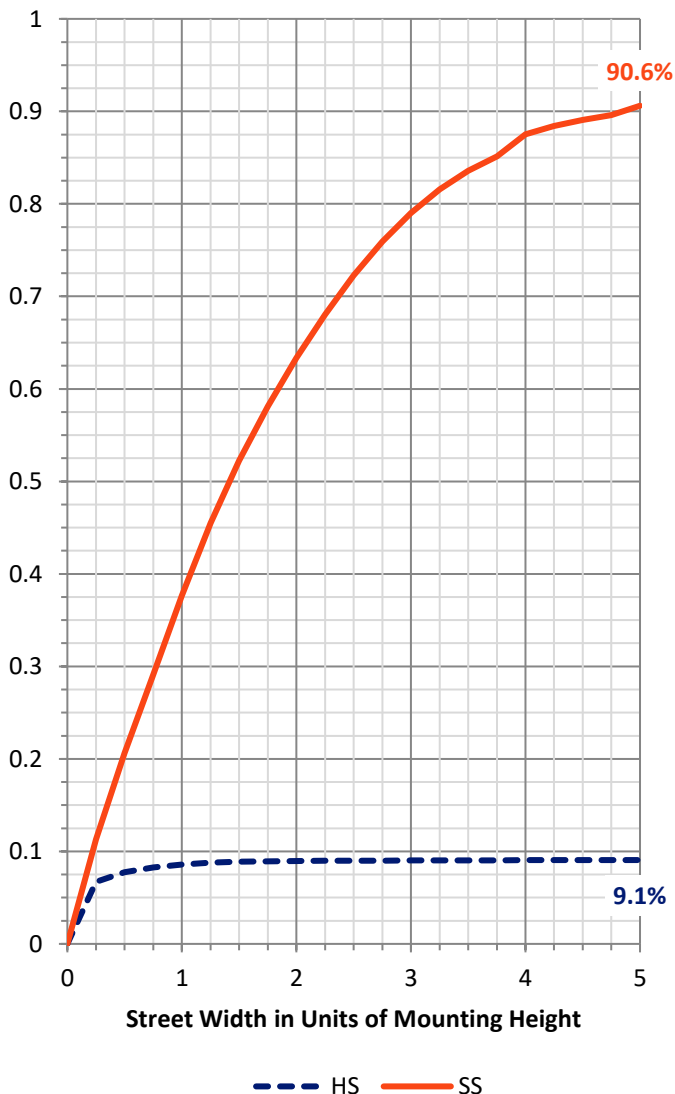
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2437.4	0.0	2437.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	24302.6	0.0	24302.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	26740.1	0.0	26740.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.4
10°-20°	828.3	3.1
20°-30°	1241.0	4.6
30°-40°	1974.4	7.4
40°-50°	3525.7	13.2
50°-60°	5470.9	20.5
60°-70°	7272.8	27.2
70°-80°	5470.7	20.5
80°-90°	574.8	2.1
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°	26740.1	100.0
0°-180°	26740.1	100.0

Coefficient of Utilization

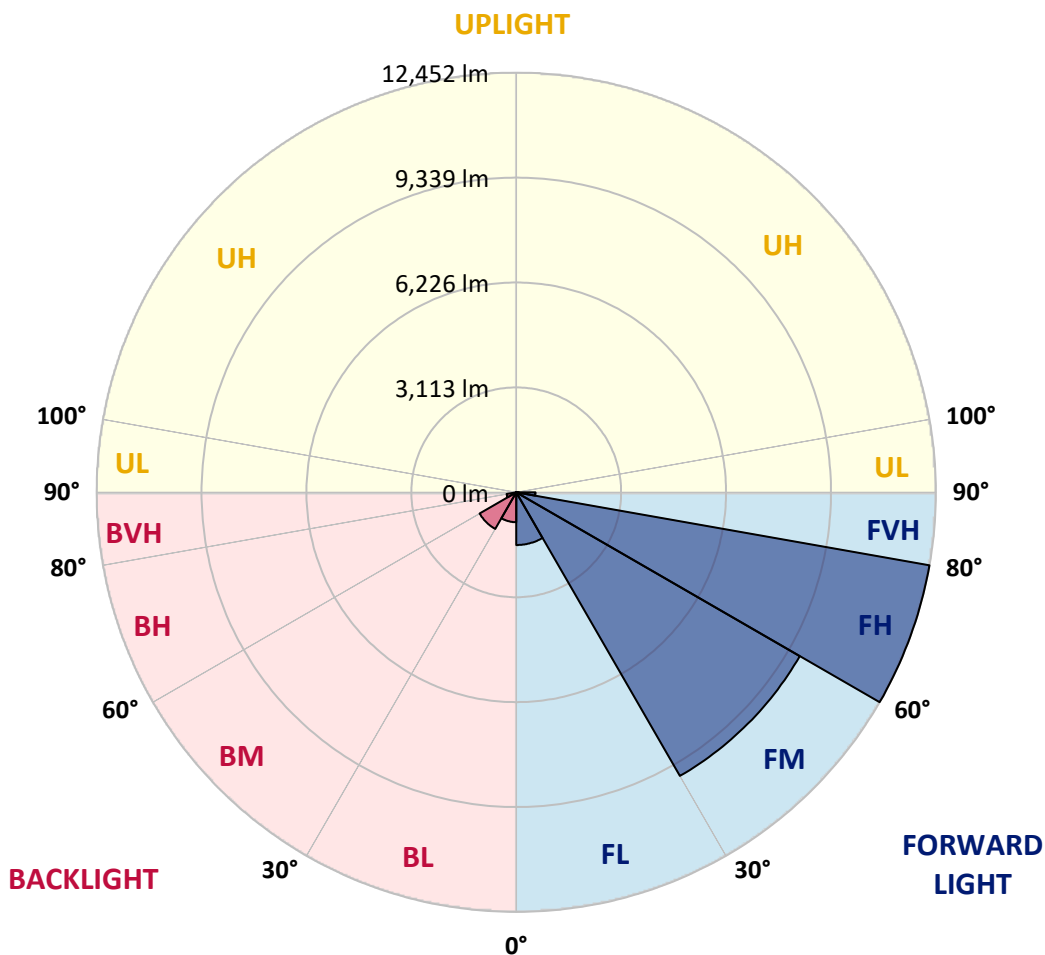


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.3	5.9			
FM (30°-60°)	9716.4	36.3			
FH (60°-80°)	12451.9	46.6			G5
FVH (80°-90°)	570.0	2.1			G4/750
BL (0°-30°)	886.4	3.3	B2/1000		
BM (30°-60°)	1254.6	4.7	B2/2500		
BH (60°-80°)	291.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7
2.5°	4359.9	4378.3	4397.8	4401.7	4434.5	4435.8	4482.9	4518.3	4553.6	4587.6	4599.3
5°	3912.4	3942.5	3977.8	4013.2	4082.5	4110.0	4225.1	4342.9	4455.4	4562.7	4615.1
7.5°	3434.8	3468.8	3518.5	3606.2	3683.4	3737.1	3918.9	4128.3	4337.7	4535.2	4649.1
10°	2999.1	3030.5	3082.9	3175.7	3294.8	3368.1	3612.7	3903.3	4210.8	4510.4	4700.1
12.5°	2721.7	2738.7	2767.4	2866.9	2974.2	3056.7	3344.5	3704.4	4106.1	4509.1	4782.6
15°	2670.7	2675.9	2652.3	2696.8	2780.6	2860.4	3152.2	3543.4	4026.2	4530.0	4889.9
17.5°	2751.8	2749.2	2670.7	2665.4	2732.1	2797.5	3058.0	3432.2	3970.0	4578.5	5028.6
20°	2874.8	2865.6	2729.5	2704.7	2775.4	2836.8	3051.4	3390.4	3949.0	4659.6	5197.4
22.5°	3038.3	3022.6	2809.4	2783.2	2859.1	2923.2	3132.5	3430.9	3967.4	4768.1	5393.7
25°	3241.1	3217.6	2946.8	2918.0	2995.1	3059.3	3277.8	3547.3	4022.3	4900.3	5642.3
27.5°	3470.1	3436.1	3166.6	3092.0	3179.7	3246.4	3471.4	3725.3	4108.7	5040.3	5947.1
30°	3686.0	3641.5	3398.2	3275.1	3382.4	3457.1	3680.8	3937.3	4247.4	5256.3	6364.5
32.5°	3903.3	3853.5	3604.9	3458.4	3555.2	3636.3	3896.8	4229.0	4507.8	5586.0	6919.3
35°	4403.1	4350.8	4045.9	3803.8	3802.5	3848.3	4199.0	4628.2	4851.9	6045.3	7581.4
37.5°	5244.4	5214.3	4923.9	4464.6	4341.6	4290.6	4611.2	5104.4	5346.5	6677.2	8328.6
40°	6165.6	6139.5	5813.7	5397.6	5210.4	5084.9	5202.6	5767.9	6045.3	7449.3	9091.4
42.5°	7205.9	7081.6	6500.6	6376.4	6208.9	6113.3	6007.4	6585.7	6903.6	8289.4	9847.8
45°	8150.7	7941.3	7187.5	6999.2	6961.2	6984.7	7043.6	7684.8	7869.3	9287.7	10601.5
47.5°	8713.3	8548.4	7970.0	7789.5	7779.1	7934.7	8379.6	8926.6	8831.1	10157.9	11264.8
50°	9248.5	9099.3	8619.1	8663.6	8712.0	8923.9	9896.2	10203.7	9709.1	10946.9	11873.3
52.5°	9681.6	9453.9	9202.7	9452.6	9690.7	10032.3	11461.1	11349.9	10331.9	11574.9	12394.1
55°	9931.5	9828.1	9949.9	10201.1	10648.6	11203.4	12938.5	12303.8	10787.2	12148.1	12740.9
57.5°	10847.5	10644.6	10886.7	11104.0	11687.5	12463.5	14203.8	13014.4	11115.7	12502.7	12820.7
60°	11955.8	11792.2	11934.8	12296.0	13083.7	13995.8	15386.7	13594.0	11287.1	12730.4	12613.9
62.5°	13719.6	13503.7	13414.8	13819.0	14863.2	15859.0	16284.3	13995.8	11249.2	12629.6	11904.7
65°	16082.8	15859.0	15461.3	15827.6	17155.8	17858.4	17287.9	14080.8	10987.5	11814.4	10112.0
67.5°	18503.5	18341.2	18001.0	18618.7	19817.2	20043.6	18349.1	13874.0	10144.8	9579.6	7144.4
70°	20102.5	20033.1	20254.3	21620.4	22689.4	22623.9	19322.6	12763.1	7907.3	5890.8	3534.3
72.5°	18949.7	19282.0	20915.0	23392.1	24697.9	24164.1	18822.8	9800.6	4519.6	2266.4	1021.9
73°	17994.5	18419.8	20618.0	23458.8	24856.3	24271.4	18402.7	8996.0	3852.2	1788.8	774.7
75°	12518.4	13040.5	17069.4	21848.1	24115.6	23125.1	15339.5	5506.2	1784.8	792.9	312.7
77.5°	6078.0	6464.0	9398.9	15785.7	18754.8	18067.7	9549.4	2051.7	806.1	496.0	143.9
80°	2269.0	2522.8	4079.9	8034.2	10838.3	11122.2	4200.3	776.0	536.5	399.1	73.3
82.5°	594.0	662.1	1504.7	3582.6	5554.5	5813.7	1324.2	391.2	392.6	328.5	44.5
85°	189.8	217.2	469.8	1608.1	2617.0	2297.8	345.4	189.8	285.2	244.7	24.9
87.5°	23.6	30.1	149.1	378.1	577.1	320.5	53.7	56.3	121.7	136.1	14.4
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°	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7	4600.7
2.5°	4611.2	4604.6	4605.9	4571.9	4549.7	4505.2	4459.4	4438.5	4416.2	4407.1	4416.2
5°	4634.7	4622.9	4588.9	4484.2	4373.0	4229.0	4094.3	3992.2	3864.0	3828.7	3865.3
7.5°	4671.3	4647.8	4548.4	4335.0	4087.7	3813.0	3504.2	3279.1	3094.6	2975.5	3018.7
10°	4725.0	4680.5	4480.3	4117.8	3675.6	3188.8	2750.5	2409.0	2166.9	2067.4	2063.5
12.5°	4815.3	4731.5	4396.5	3835.2	3171.8	2522.8	1948.3	1578.0	1381.8	1254.9	1252.3
15°	4914.8	4791.7	4290.6	3496.3	2585.6	1807.0	1254.9	973.6	846.6	806.1	800.8
17.5°	5036.4	4861.1	4153.2	3078.9	1971.9	1197.3	819.1	738.0	732.8	728.8	728.8
20°	5189.5	4943.5	3976.5	2601.3	1398.8	799.5	696.1	701.4	704.0	698.8	700.1
22.5°	5367.5	5027.3	3765.9	2088.3	946.1	668.7	666.1	672.6	675.2	672.6	673.9
25°	5574.2	5124.1	3509.4	1550.6	683.0	634.7	641.2	650.3	656.8	656.8	656.8
27.5°	5830.6	5241.8	3200.6	1082.1	590.1	599.3	617.6	634.7	643.8	646.4	646.4
30°	6164.3	5388.4	2830.3	741.9	536.5	552.2	586.2	618.9	636.0	638.6	639.9
32.5°	6585.7	5553.2	2401.1	548.2	490.6	502.5	539.1	594.0	626.7	632.0	632.0
35°	7068.5	5744.3	1939.2	477.6	457.9	461.9	490.6	553.5	611.1	625.4	626.7
37.5°	7597.1	5932.7	1474.6	446.2	430.5	430.5	451.4	505.1	573.1	617.6	622.8
40°	8090.5	6046.6	1033.7	421.3	405.6	405.6	423.9	463.2	527.3	594.0	608.5
42.5°	8545.8	6085.8	719.7	397.8	382.1	386.0	401.7	433.1	481.5	548.2	561.4
45°	9014.2	6079.3	524.7	370.3	358.6	370.3	382.1	405.6	441.0	478.9	481.5
47.5°	9367.5	6024.3	416.1	344.1	336.3	352.0	362.5	378.1	397.8	395.2	395.2
50°	9698.6	5890.8	335.0	308.8	314.0	332.4	337.6	342.8	344.1	319.2	316.6
52.5°	9949.9	5682.8	268.3	270.9	291.8	310.1	304.9	297.1	283.9	253.8	248.6
55°	10033.6	5282.4	210.6	223.8	259.1	282.6	263.0	246.0	221.1	196.3	191.1
57.5°	9881.8	4765.5	171.4	174.0	218.5	238.1	215.9	196.3	168.8	147.8	143.9
60°	9559.9	4191.1	141.3	130.9	168.8	185.8	171.4	151.7	127.0	111.2	109.9
62.5°	8921.3	3578.7	116.4	102.1	128.3	142.6	133.5	119.1	98.1	87.7	86.4
65°	7578.8	2863.0	94.2	82.4	99.5	111.2	103.4	92.9	77.2	69.3	68.0
67.5°	5290.3	1935.3	77.2	68.0	78.5	87.7	81.1	75.9	61.5	60.2	61.5
70°	2551.6	932.9	64.1	55.0	61.5	68.0	65.4	61.5	58.9	68.0	78.5
72.5°	731.5	312.7	51.0	45.8	49.7	53.7	56.3	55.0	64.1	82.4	95.5
73°	562.7	252.5	48.4	43.2	47.1	52.4	55.0	53.7	65.4	83.7	95.5
75°	240.8	121.7	36.6	35.3	39.2	45.8	48.4	48.4	65.4	85.1	91.6
77.5°	108.6	65.4	23.6	27.5	34.0	36.6	40.5	40.5	52.4	65.4	65.4
80°	61.5	35.3	18.4	21.0	24.9	24.9	24.9	22.3	23.6	26.2	28.8
82.5°	39.2	23.6	14.4	17.0	15.7	13.0	10.4	10.4	9.1	10.4	13.0
85°	22.3	13.0	13.0	10.4	6.5	5.2	6.5	5.2	1.3	0.0	1.3
87.5°	13.0	7.8	3.9	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)