

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: P319989

Luminaire Tested: **GAN-SA5A-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22132 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 162
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

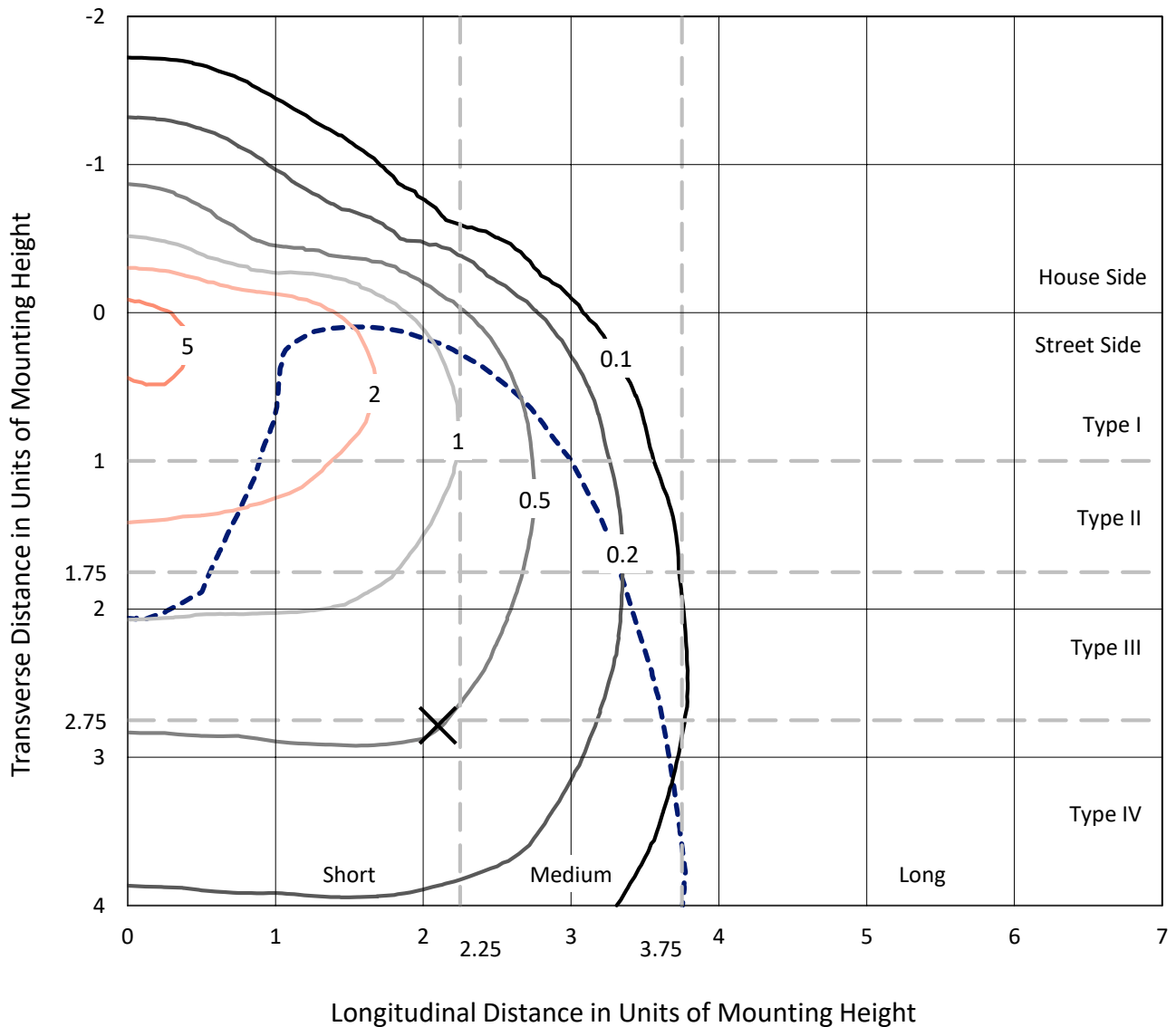




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Iso-Footcandle Lines of Horizontal Illumination

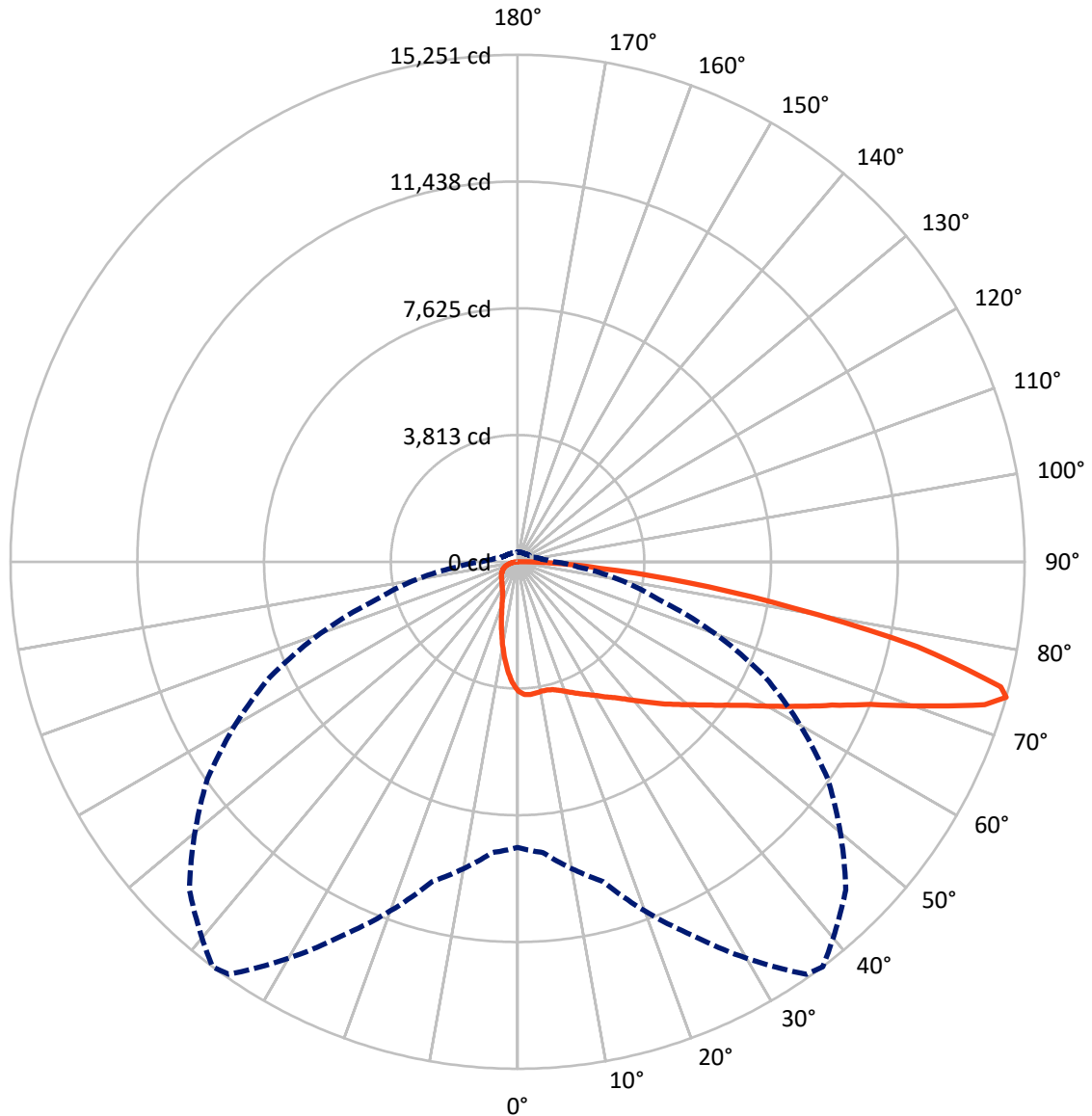
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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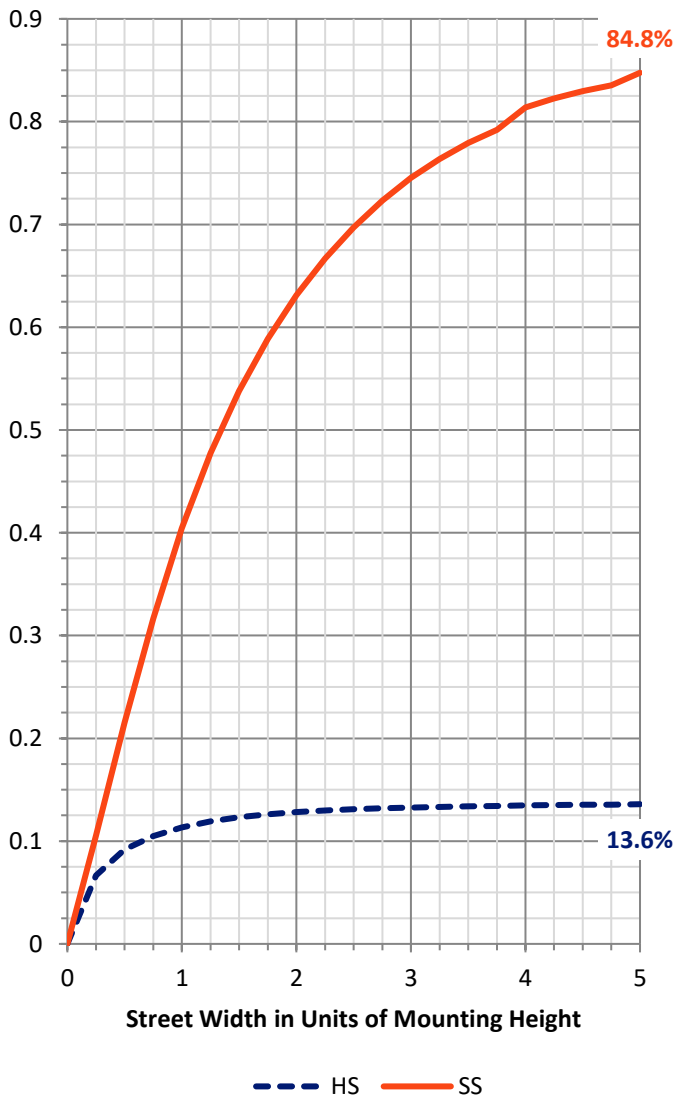
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.2	0.0	3045.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	19086.8	0.0	19086.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	22132.0	0.0	22132.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.6
10°-20°	880.2	4.0
20°-30°	1356.3	6.1
30°-40°	1972.2	8.9
40°-50°	2902.7	13.1
50°-60°	4076.4	18.4
60°-70°	5159.4	23.3
70°-80°	4543.1	20.5
80°-90°	898.3	4.1
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°	22132.0	100.0
0°-180°	22132.0	100.0

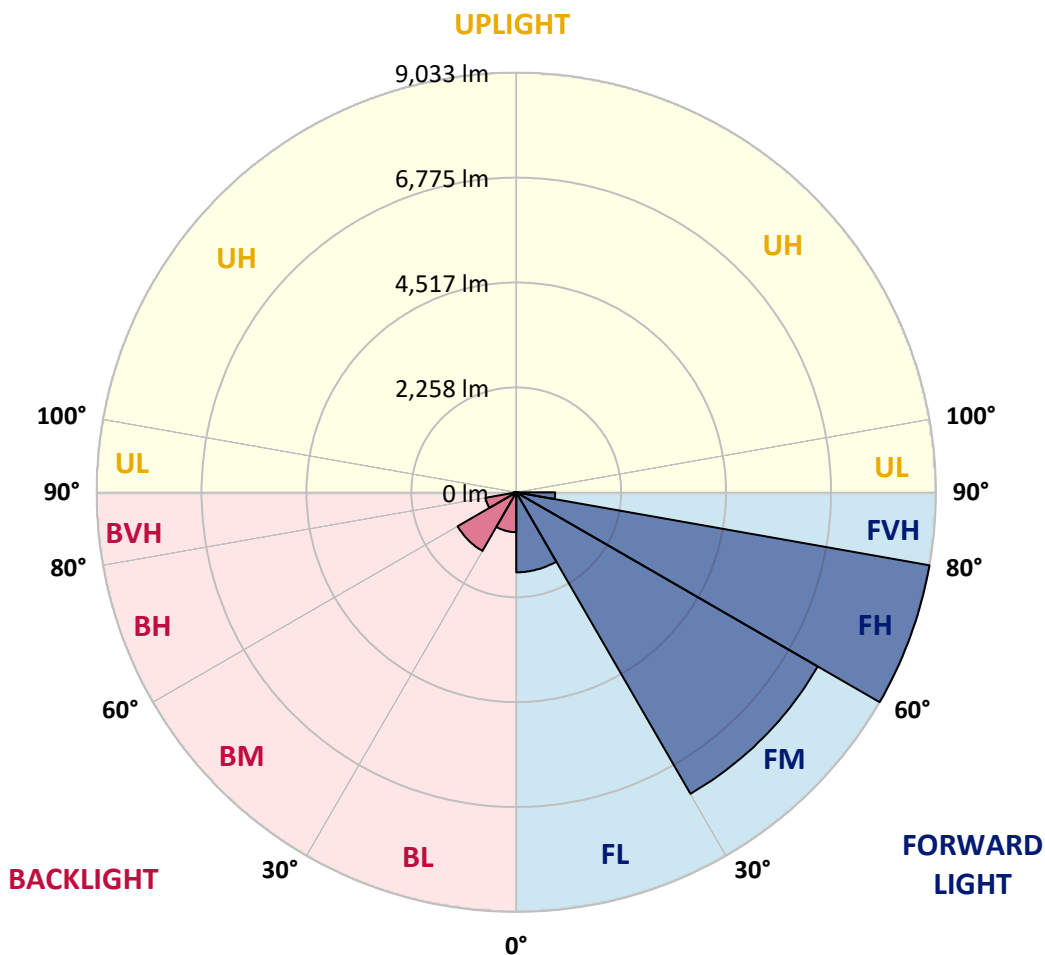


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.1	7.8			
FM (30°-60°)	7494.1	33.9			
FH (60°-80°)	9033.2	40.8			G4/12000
FVH (80°-90°)	837.4	3.8			G5
BL (0°-30°)	857.8	3.9	B2/1000		
BM (30°-60°)	1457.3	6.6	B2/2500		
BH (60°-80°)	669.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	60.8	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6
2.5°	4032.9	4033.7	4032.9	4026.6	4011.8	3999.4	3989.2	3974.4	3941.7	3916.7	3879.3
5°	4071.1	4066.4	4063.3	4051.6	4028.2	4014.2	3994.7	3966.6	3912.8	3862.9	3802.1
7.5°	4053.2	4047.7	4040.7	4026.6	4000.1	3988.4	3961.2	3924.5	3859.8	3794.3	3707.0
10°	3997.8	3996.2	3993.1	3990.0	3967.4	3958.0	3933.1	3894.1	3830.2	3750.7	3648.5
12.5°	3936.2	3940.1	3952.6	3969.0	3958.8	3954.1	3938.6	3912.0	3846.6	3760.8	3637.6
15°	3897.2	3908.1	3941.7	3984.5	3993.1	3991.6	3987.7	3970.5	3901.1	3806.0	3662.6
17.5°	3884.0	3901.9	3965.8	4036.8	4061.7	4067.2	4068.7	4039.1	3961.9	3861.4	3688.3
20°	3908.1	3930.8	4024.3	4121.8	4161.5	4164.6	4157.6	4106.2	4019.6	3908.9	3702.3
22.5°	3981.4	4001.7	4118.6	4228.6	4273.8	4278.5	4257.4	4179.4	4080.4	3965.1	3721.8
25°	4122.5	4147.5	4264.4	4374.4	4397.7	4398.5	4368.1	4271.4	4160.0	4043.8	3763.9
27.5°	4306.5	4331.5	4436.7	4544.3	4531.8	4524.8	4483.5	4386.8	4263.6	4152.2	3838.8
30°	4511.6	4538.8	4638.6	4715.0	4685.4	4671.4	4637.9	4513.1	4407.9	4300.3	3953.4
32.5°	4723.6	4748.6	4835.9	4888.1	4850.7	4844.5	4793.8	4680.0	4595.8	4526.4	4138.9
35°	4941.1	4959.1	5044.8	5074.4	5024.5	5023.0	5008.9	4904.5	4851.5	4884.2	4408.7
37.5°	5163.3	5168.0	5241.3	5242.8	5228.0	5234.3	5249.1	5183.6	5198.4	5300.5	4759.5
40°	5361.3	5373.8	5426.8	5443.2	5468.9	5490.7	5564.8	5521.9	5636.5	5817.4	5196.1
42.5°	5507.9	5532.1	5617.0	5659.1	5742.6	5776.9	5881.3	5921.1	6151.8	6423.1	5715.3
45°	5631.8	5669.3	5805.7	5892.2	6033.3	6093.4	6243.1	6376.4	6734.2	7080.4	6261.8
47.5°	5765.9	5813.5	5984.2	6149.5	6341.3	6409.1	6681.2	6880.8	7355.6	7741.5	6777.1
50°	5963.2	5999.8	6166.7	6426.3	6665.6	6752.9	7129.5	7415.6	7987.0	8371.4	7223.8
52.5°	6238.4	6224.3	6365.5	6729.5	7050.7	7158.3	7608.1	7984.7	8627.1	8941.3	7601.1
55°	6515.1	6491.8	6590.8	7046.8	7499.8	7612.8	8135.2	8556.1	9236.0	9454.2	7890.4
57.5°	6823.1	6778.6	6862.1	7404.7	8011.2	8146.1	8725.3	9163.4	9834.7	9869.0	8074.3
60°	7140.4	7080.4	7173.9	7848.3	8660.6	8819.6	9416.0	9755.9	10399.1	10201.1	8133.6
62.5°	7417.9	7375.8	7520.0	8343.3	9392.7	9567.3	10094.3	10385.9	10955.8	10339.1	7920.0
65°	7660.4	7667.4	7916.9	8899.9	10208.9	10395.2	10872.3	11162.4	11393.9	10257.2	7420.3
67.5°	7949.6	7989.4	8415.0	9632.8	11236.4	11440.7	12004.3	12009.0	11638.7	9777.0	6436.4
70°	8371.4	8453.2	9100.3	10649.4	12697.4	12978.0	13413.1	12506.4	11294.9	8475.1	5064.3
72.5°	8745.6	8898.4	9829.2	11812.5	14478.0	14690.8	14237.1	12219.5	9858.1	6351.4	3155.1
74°	8593.6	8783.0	9961.8	12385.5	15148.5	15250.6	13958.8	11382.2	8219.4	4398.5	1833.6
75°	8266.1	8471.9	9768.4	12380.1	15063.5	15006.6	13286.8	10425.6	6769.3	2999.9	1220.1
77.5°	6671.1	6888.6	8231.0	10610.4	12351.2	12297.5	10206.6	6993.8	2964.8	983.9	619.8
80°	3878.5	4044.6	5109.5	6738.1	8328.5	8425.9	6712.4	3460.7	1166.3	552.7	420.2
82.5°	1722.9	1837.5	2468.2	3439.6	5026.1	5151.6	3515.2	1813.4	720.4	336.0	252.6
85°	1130.4	1215.4	1498.4	1637.9	2393.4	2479.1	1720.6	1411.9	475.6	184.8	185.5
87.5°	813.1	895.0	1113.3	972.2	1098.5	1040.0	936.3	1306.6	191.0	105.2	62.4
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°	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6	3899.6
2.5°	3862.9	3850.5	3822.4	3769.4	3739.8	3714.8	3673.5	3649.3	3638.4	3637.6	3642.3
5°	3767.0	3738.2	3665.7	3576.8	3505.9	3441.2	3360.9	3312.5	3278.2	3258.0	3263.4
7.5°	3655.6	3610.3	3496.5	3354.6	3240.8	3115.3	2991.3	2917.3	2859.6	2816.7	2824.5
10°	3579.2	3516.8	3350.7	3146.5	2957.0	2774.6	2603.9	2501.7	2420.7	2358.3	2363.0
12.5°	3553.4	3469.2	3239.2	2966.4	2700.5	2451.1	2228.1	2071.4	1988.0	1917.0	1922.5
15°	3557.3	3444.3	3145.7	2804.2	2469.8	2155.6	1885.1	1701.9	1588.8	1539.7	1540.5
17.5°	3560.4	3415.4	3047.5	2630.4	2241.4	1879.6	1585.7	1400.2	1293.4	1248.1	1248.9
20°	3550.3	3368.7	2925.8	2430.8	2002.8	1626.3	1341.7	1184.2	1103.1	1068.1	1068.1
22.5°	3537.1	3313.3	2788.6	2230.4	1767.4	1406.4	1167.1	1047.0	1000.2	976.8	976.1
25°	3543.3	3272.0	2648.3	2024.6	1550.6	1231.0	1050.9	971.4	940.2	925.4	924.6
27.5°	3576.8	3252.5	2518.9	1819.6	1361.2	1099.2	972.9	916.8	896.5	887.2	887.2
30°	3637.6	3252.5	2384.0	1645.0	1203.7	1001.8	912.9	874.7	860.7	854.4	854.4
32.5°	3743.7	3270.4	2253.8	1471.9	1078.2	925.4	863.0	837.3	826.4	823.3	823.3
35°	3926.1	3331.2	2126.8	1308.2	976.8	863.0	815.5	800.7	792.9	792.1	794.4
37.5°	4182.6	3455.2	2007.5	1187.3	905.1	812.3	775.7	764.0	759.3	763.2	766.3
40°	4505.3	3623.6	1899.1	1078.2	850.5	771.8	739.1	731.3	728.9	734.4	739.1
42.5°	4895.1	3851.2	1810.2	999.5	808.4	737.5	707.9	698.5	696.2	702.4	708.7
45°	5316.9	4096.0	1747.9	941.0	775.7	711.8	680.6	670.5	665.8	668.9	675.9
47.5°	5700.5	4327.6	1722.9	899.7	744.5	689.9	656.4	644.0	636.2	634.6	640.1
50°	6024.0	4499.9	1734.6	874.7	719.6	665.8	633.0	619.0	607.3	600.3	604.2
52.5°	6259.4	4608.2	1745.5	863.8	700.1	639.3	607.3	594.1	578.5	566.8	566.8
55°	6430.2	4633.2	1721.4	855.2	685.3	610.4	578.5	566.0	550.4	537.1	535.6
57.5°	6497.2	4563.0	1631.7	842.8	675.1	583.1	548.1	538.7	525.5	509.9	509.1
60°	6406.8	4346.3	1458.6	816.2	661.9	560.5	517.7	511.4	505.2	490.4	489.6
62.5°	6043.5	3870.7	1234.9	762.5	635.4	536.4	489.6	492.7	493.5	483.4	481.8
65°	5384.7	3217.4	1016.6	692.3	595.6	507.5	460.7	475.6	484.1	482.6	480.2
67.5°	4427.4	2504.1	861.5	618.2	543.4	467.8	429.6	446.7	453.7	459.2	457.6
70°	3286.0	1765.8	712.6	540.3	480.2	421.0	389.0	397.6	392.9	399.2	401.5
72.5°	1832.1	1059.5	580.8	462.3	414.7	366.4	343.8	342.2	332.1	332.1	332.1
74°	1099.2	777.3	510.6	414.0	375.0	330.6	311.1	304.0	294.7	295.5	294.7
75°	884.1	668.1	468.5	382.0	346.9	309.5	290.0	280.7	273.6	273.6	272.9
77.5°	558.2	507.5	377.3	304.0	277.5	254.9	241.7	229.2	229.2	228.4	227.6
80°	421.8	403.8	293.9	230.0	212.8	195.7	187.1	181.6	181.6	184.0	183.2
82.5°	289.2	304.0	206.6	160.6	152.0	139.5	138.0	138.8	136.4	133.3	132.5
85°	211.3	228.4	139.5	101.3	92.8	85.0	91.2	94.3	90.4	83.4	80.3
87.5°	81.1	149.7	74.8	42.1	39.0	33.5	39.0	40.5	43.7	34.3	35.1
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)