

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: P320966

Luminaire Tested: **GAN-SA2C-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14847 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

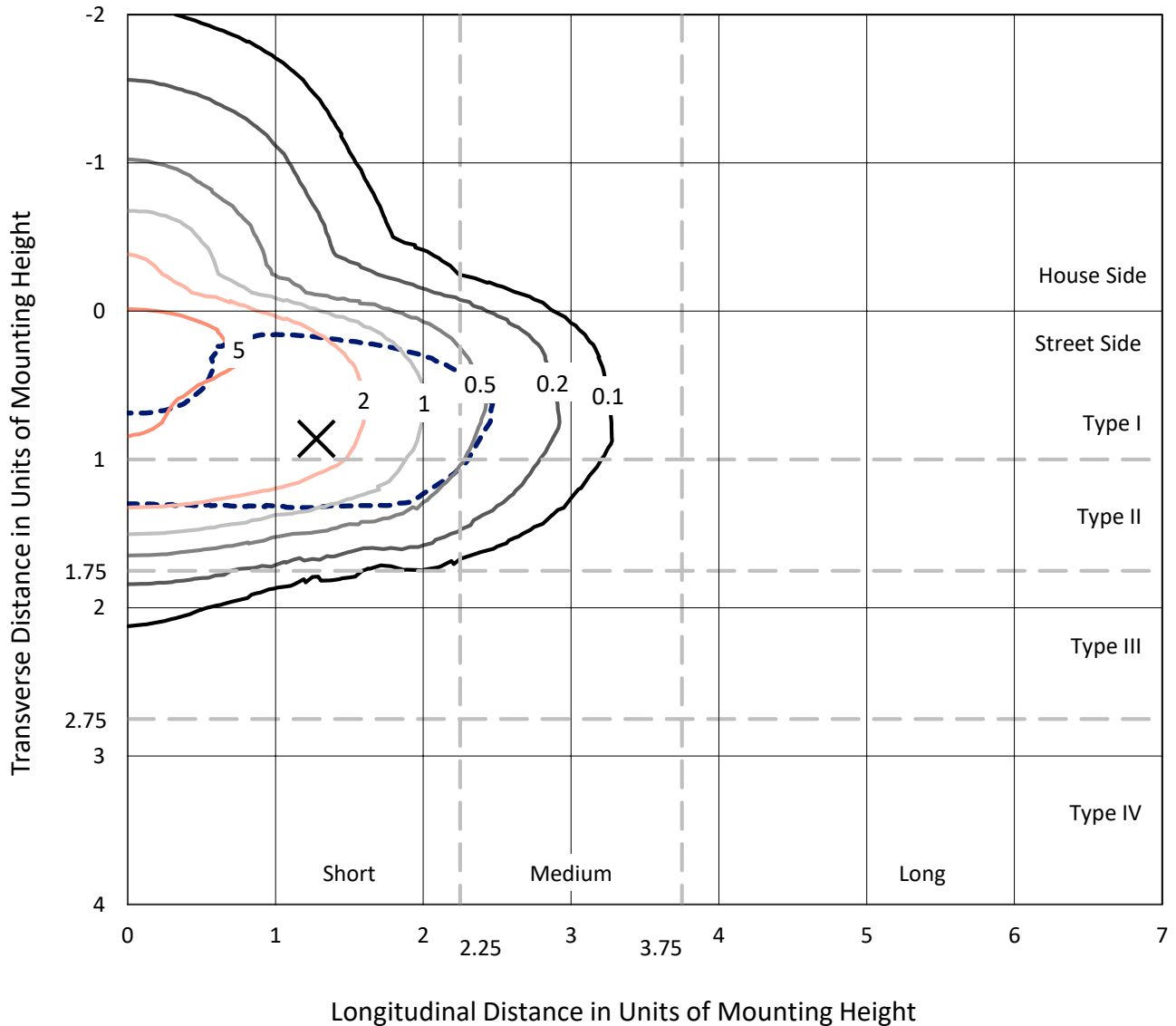
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

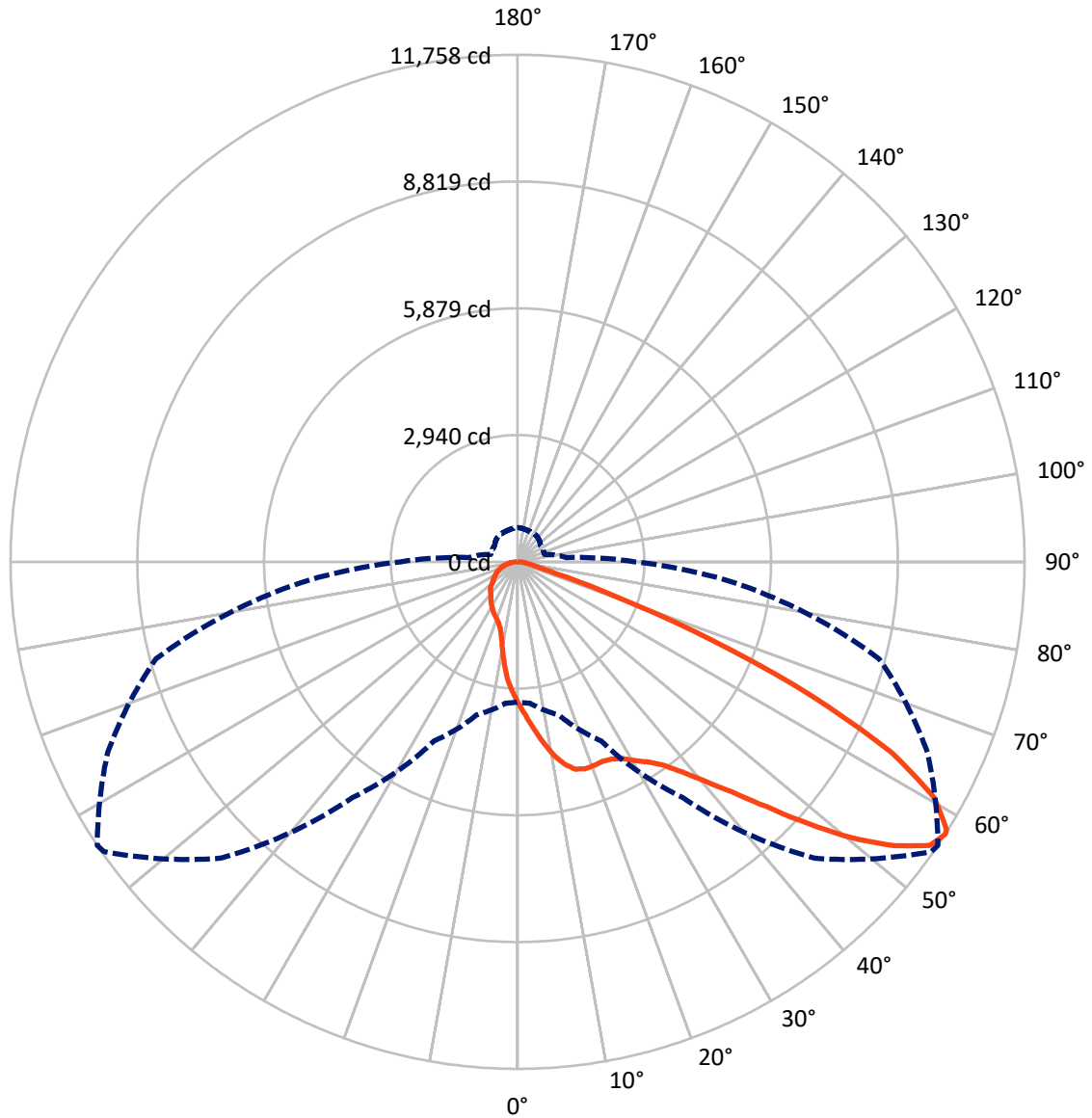
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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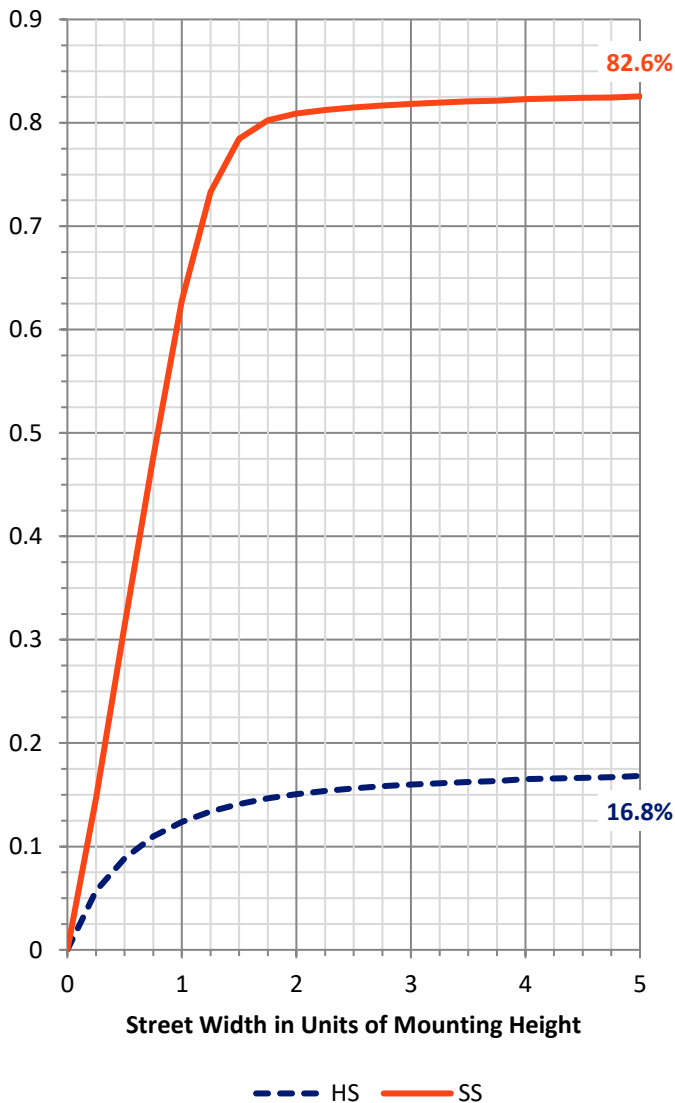
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2559.3	0.0	2559.3
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	12287.7	0.0	12287.7
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	14847.0	0.0	14847.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.6	2.1
10°-20°	889.4	6.0
20°-30°	1448.6	9.8
30°-40°	2165.5	14.6
40°-50°	3284.6	22.1
50°-60°	3681.5	24.8
60°-70°	2174.4	14.6
70°-80°	712.4	4.8
80°-90°	176.0	1.2
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°	14847.0	100.0
0°-180°	14847.0	100.0

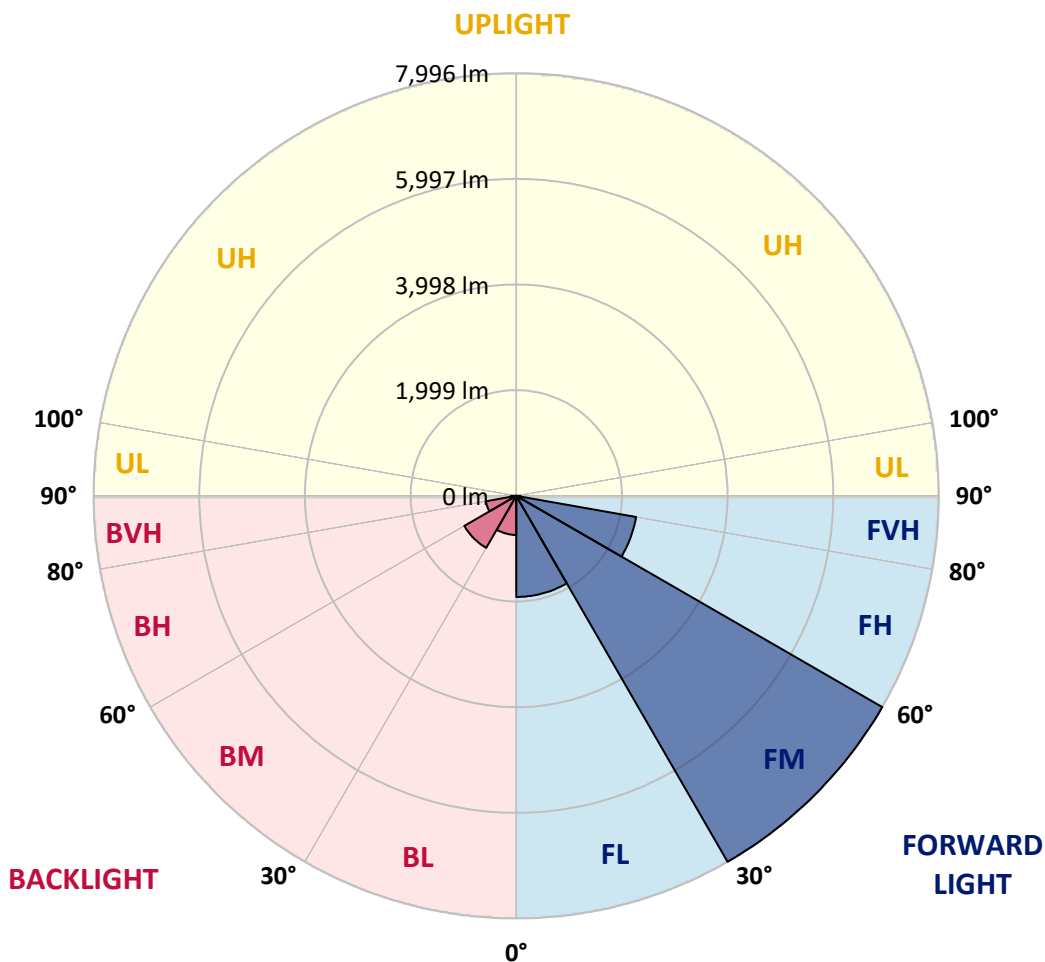


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1912.5	12.9			
FM (30°-60°)	7995.6	53.9			
FH (60°-80°)	2302.1	15.5			G2/5000
FVH (80°-90°)	77.5	0.5			G1/100
BL (0°-30°)	740.0	5.0	B2/1000		
BM (30°-60°)	1136.0	7.7	B2/2500		
BH (60°-80°)	584.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	98.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1
2.5°	3781.4	3816.1	3800.8	3747.7	3706.9	3649.2	3584.9	3565.5	3497.7	3421.7	3330.3
5°	4379.9	4362.5	4337.5	4254.9	4167.6	4066.1	3904.9	3879.3	3728.3	3556.4	3374.7
7.5°	4720.7	4719.2	4704.4	4655.9	4576.3	4443.7	4249.3	4219.2	3991.1	3714.5	3432.9
10°	4671.2	4667.7	4692.2	4742.7	4766.6	4739.1	4575.3	4545.2	4265.1	3889.5	3500.2
12.5°	4390.1	4392.1	4431.4	4537.5	4681.9	4855.4	4828.9	4814.1	4549.3	4087.5	3581.9
15°	4171.2	4175.8	4206.9	4299.3	4469.7	4784.5	4983.0	4988.1	4824.3	4305.9	3677.3
17.5°	4075.3	4085.0	4099.3	4164.1	4320.2	4643.2	5019.7	5047.3	5065.1	4532.4	3769.1
20°	4105.9	4115.1	4119.2	4160.5	4288.6	4557.4	4994.2	5043.7	5249.8	4745.7	3861.0
22.5°	4243.1	4248.8	4251.3	4262.0	4361.5	4581.9	4977.4	5029.4	5383.5	4937.1	3930.4
25°	4470.7	4466.6	4450.3	4436.5	4503.4	4678.9	5016.2	5065.6	5492.2	5110.5	3975.8
27.5°	4743.2	4738.1	4706.4	4668.7	4706.9	4829.9	5127.9	5167.2	5589.7	5272.8	3998.7
30°	5070.2	5057.0	4997.3	4952.4	4967.2	5056.5	5312.1	5347.8	5740.2	5457.0	4021.2
32.5°	5448.3	5434.0	5347.8	5273.3	5273.3	5347.8	5501.9	5531.5	5867.7	5665.2	4057.4
35°	5921.8	5904.0	5791.7	5666.7	5631.5	5669.3	5760.6	5781.5	6097.3	5927.4	4123.2
37.5°	6480.0	6456.0	6310.6	6143.3	6066.2	6064.2	6130.0	6172.9	6464.2	6271.8	4235.0
40°	7039.8	7022.9	6895.9	6764.2	6613.2	6564.7	6666.3	6679.5	6943.8	6699.4	4377.8
42.5°	7472.4	7469.4	7445.9	7463.3	7308.7	7210.7	7290.3	7301.0	7529.6	7162.2	4529.9
45°	7701.0	7706.1	7819.9	8072.0	8129.1	8057.7	8097.0	8100.0	8199.0	7629.1	4669.2
47.5°	7517.9	7544.4	7832.2	8396.0	8863.9	9101.1	9035.8	9073.6	8848.0	8030.1	4778.4
50°	6804.0	6836.7	7326.5	8251.6	9206.7	10110.9	10076.7	10068.0	9371.5	8324.0	4837.6
52.5°	5919.8	5945.3	6349.4	7501.0	8955.2	10669.1	10982.9	10938.0	9836.9	8543.9	4848.8
55°	4573.3	4613.1	5000.3	6003.0	7937.8	10455.8	11649.3	11608.9	10260.9	8659.3	4835.5
57°	3251.2	3293.1	3677.8	4581.4	6677.5	9717.5	11715.6	11758.4	10490.0	8678.6	4850.3
57.5°	2901.2	2944.1	3325.2	4202.8	6284.6	9450.6	11658.4	11729.9	10531.3	8675.6	4858.5
60°	1460.8	1477.1	1720.0	2346.1	3972.7	7640.3	10913.0	11097.2	10568.6	8525.6	4893.7
62.5°	908.2	896.5	888.8	1080.7	1932.8	5066.7	9374.6	9729.2	9855.8	8162.3	4808.5
65°	798.5	776.6	692.4	677.1	853.6	2460.9	7059.7	7501.0	8332.7	7589.8	4605.4
67.5°	750.1	728.6	633.7	576.6	577.1	975.6	4382.9	4879.9	6491.3	6621.9	4126.3
70°	700.0	680.7	591.9	524.5	491.4	540.3	2016.5	2393.5	4231.4	5204.9	3448.7
72.5°	635.8	622.5	538.3	468.9	433.7	404.6	772.0	911.8	2449.7	3495.6	2395.1
75°	568.4	556.2	484.2	417.9	375.0	318.4	434.7	468.4	1244.5	1788.4	1179.2
77.5°	494.4	487.3	430.6	369.4	335.2	263.8	307.7	324.0	533.7	766.9	591.4
80°	393.4	407.2	376.6	329.1	297.5	211.2	217.9	228.6	310.7	374.5	335.7
82.5°	256.1	280.1	294.9	267.4	244.9	166.3	156.6	161.2	202.6	228.6	145.9
85°	106.6	119.9	193.9	175.0	162.8	121.4	105.1	107.2	125.5	130.1	59.7
87.5°	47.5	50.5	85.2	80.1	68.9	41.8	44.9	49.0	66.8	63.3	23.0
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°	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1
2.5°	3296.1	3253.3	3179.8	3098.7	3032.3	2979.3	2925.7	2889.0	2846.1	2823.1	2811.4
5°	3298.7	3214.5	3059.9	2901.2	2759.4	2629.8	2506.3	2411.4	2322.6	2274.6	2261.4
7.5°	3309.4	3182.9	2932.8	2671.6	2419.6	2189.4	2011.9	1900.6	1820.5	1784.8	1774.6
10°	3318.1	3145.6	2775.7	2388.9	2046.1	1812.9	1675.1	1612.9	1585.3	1580.7	1576.1
12.5°	3338.5	3107.4	2610.4	2094.0	1755.7	1594.5	1546.5	1542.5	1550.1	1561.3	1561.3
15°	3370.6	3069.6	2421.6	1840.9	1571.0	1514.4	1524.1	1546.5	1567.5	1584.8	1587.4
17.5°	3394.1	3023.2	2218.5	1638.4	1472.5	1487.9	1522.6	1554.2	1575.6	1592.5	1594.0
20°	3410.9	2951.2	2001.7	1483.8	1415.9	1463.4	1506.7	1534.8	1549.6	1566.4	1569.0
22.5°	3402.3	2854.8	1809.3	1373.1	1370.0	1427.6	1469.0	1502.7	1491.4	1475.1	1485.8
25°	3360.4	2722.1	1611.3	1290.4	1321.5	1379.7	1430.7	1408.3	1370.5	1363.4	1367.4
27.5°	3285.9	2552.7	1428.2	1213.9	1265.4	1335.3	1332.2	1309.8	1296.5	1287.3	1292.9
30°	3205.8	2369.0	1267.9	1147.0	1203.1	1260.8	1249.1	1248.6	1235.3	1220.5	1227.6
32.5°	3126.7	2184.3	1140.9	1091.9	1156.2	1163.9	1189.4	1197.0	1171.0	1139.9	1137.8
35°	3057.9	2009.8	1044.5	1041.9	1099.6	1100.6	1137.8	1127.1	1062.3	1030.2	1030.2
37.5°	3006.3	1835.8	971.0	997.0	1025.1	1051.6	1070.5	1026.1	1015.4	997.5	997.0
40°	2983.9	1682.8	925.1	962.8	972.5	1006.2	957.7	975.1	980.2	971.0	971.0
42.5°	2960.4	1549.6	885.3	936.8	935.3	930.7	906.2	928.6	949.0	949.6	948.0
45°	2936.9	1434.8	850.1	881.2	902.6	853.1	857.7	881.7	910.3	920.5	920.5
47.5°	2910.9	1344.0	817.9	822.5	855.7	822.5	818.9	837.3	871.0	887.3	890.9
50°	2853.8	1262.3	781.2	771.0	780.2	791.4	794.4	803.1	840.4	866.4	872.5
52.5°	2774.7	1189.4	734.2	723.5	723.5	765.9	780.2	782.7	814.3	845.5	851.6
55°	2708.9	1142.9	685.8	683.7	681.7	738.8	763.3	767.4	789.3	813.8	816.9
57°	2713.4	1139.4	648.5	650.6	650.0	711.3	747.5	756.2	767.4	788.3	791.9
57.5°	2716.0	1141.9	640.3	641.4	640.9	703.6	742.9	752.6	761.3	783.2	786.8
60°	2754.3	1148.5	607.2	596.0	598.5	662.8	716.9	729.1	734.7	763.8	768.4
62.5°	2697.6	1119.0	580.7	553.6	553.6	619.9	680.7	700.0	708.7	748.0	755.7
65°	2533.3	1035.8	549.5	505.6	510.7	577.1	637.3	668.9	682.2	731.2	739.3
67.5°	2279.7	939.3	516.4	462.8	467.9	532.2	592.4	626.6	647.5	712.8	719.4
70°	1949.6	821.5	471.5	417.4	423.5	483.2	539.3	578.1	609.2	695.5	697.5
72.5°	1437.3	673.5	408.7	367.4	374.0	426.0	485.7	530.6	572.5	652.1	651.1
75°	854.6	526.6	339.3	316.9	321.5	369.9	437.3	491.9	554.6	635.2	644.9
77.5°	518.4	396.5	276.5	265.3	270.9	320.4	402.6	460.7	547.0	599.0	596.0
80°	313.3	283.2	220.9	213.8	219.4	274.0	372.5	437.3	478.1	511.8	511.8
82.5°	163.8	173.0	162.3	156.6	164.3	222.5	338.8	381.7	422.5	362.8	338.8
85°	66.8	90.3	98.5	98.0	102.6	154.1	292.4	326.6	272.5	258.7	264.8
87.5°	22.5	38.3	48.0	41.3	43.4	96.9	202.6	157.7	187.3	130.6	124.0
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)