

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: P320987

Luminaire Tested: **GAN-SA3A-750-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320987
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-SA3A-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14597 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

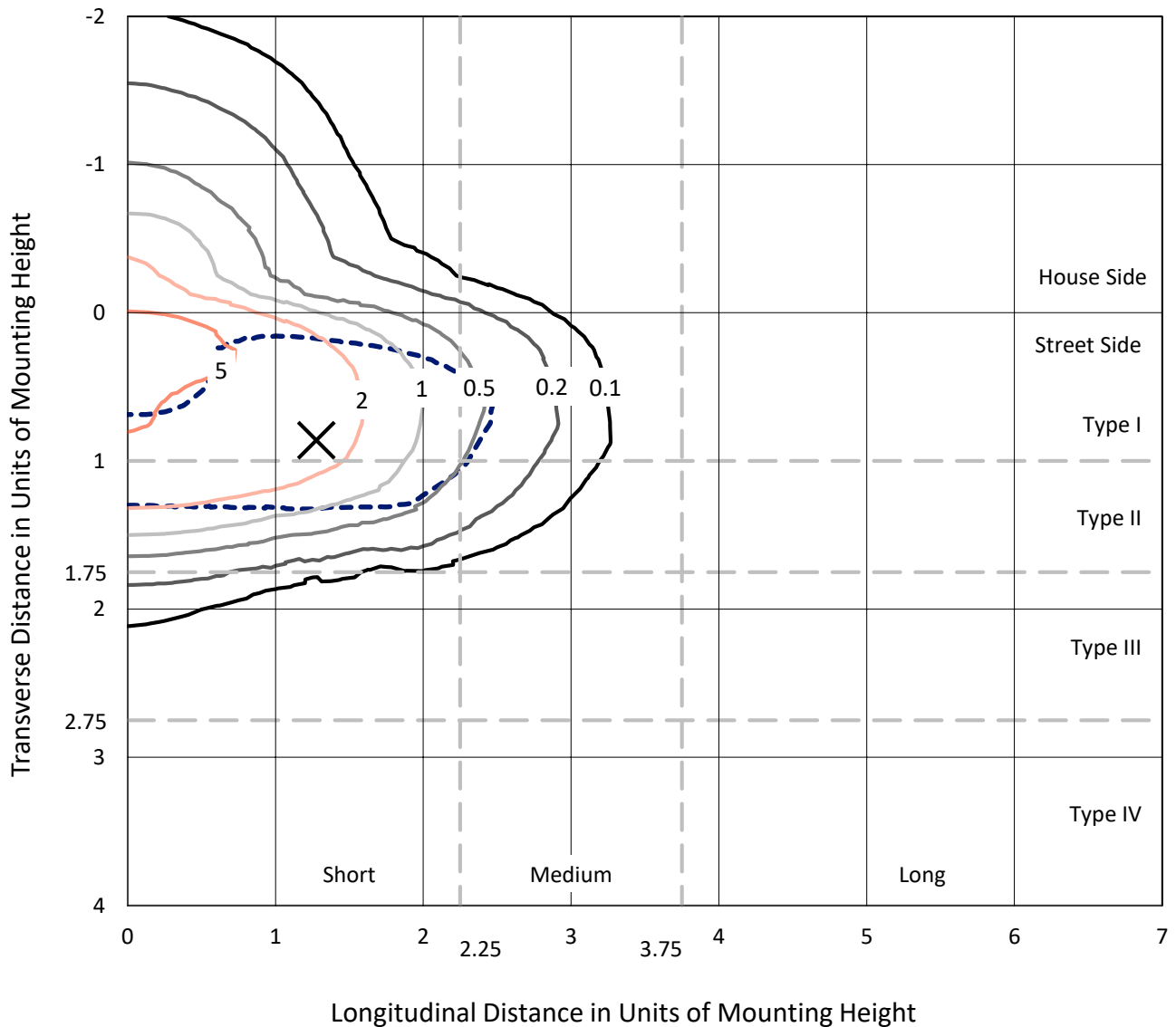
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

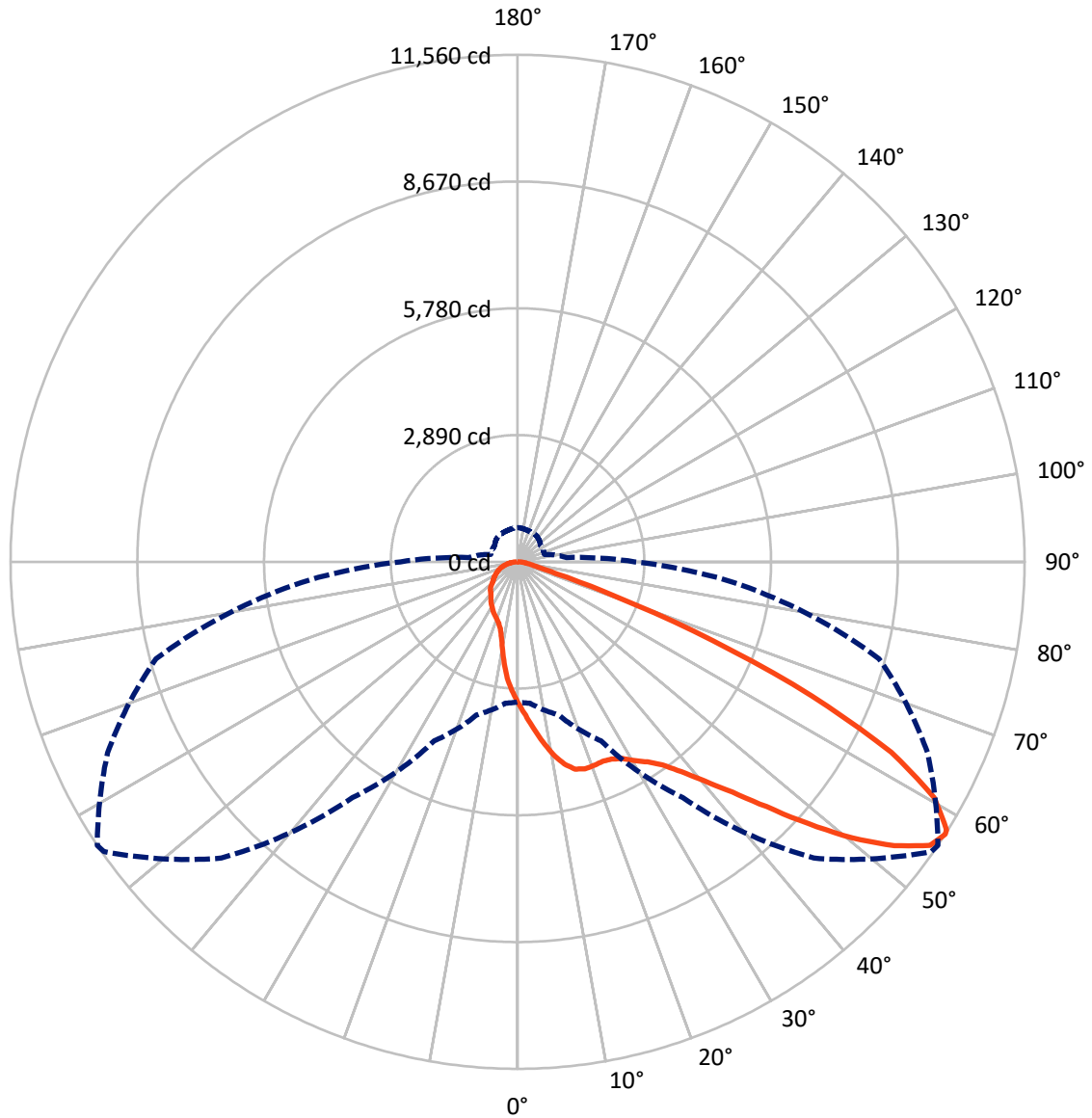
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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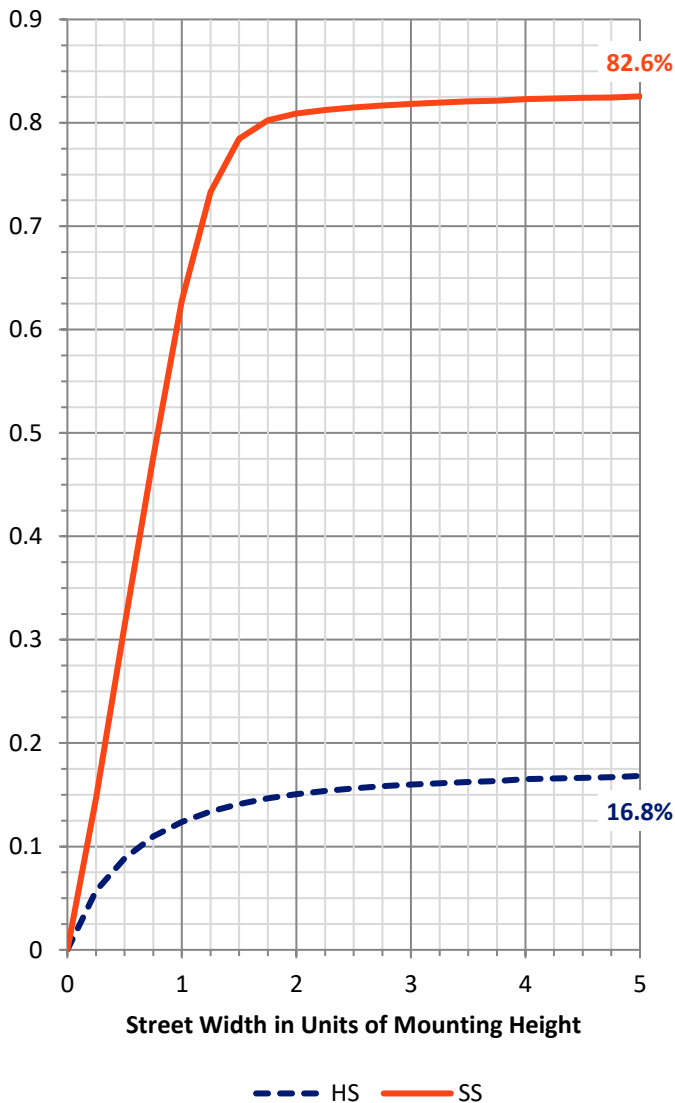
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2516.2	0.0	2516.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	12080.8	0.0	12080.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	14597.0	0.0	14597.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	2.1
10°-20°	874.4	6.0
20°-30°	1424.2	9.8
30°-40°	2129.0	14.6
40°-50°	3229.3	22.1
50°-60°	3619.5	24.8
60°-70°	2137.8	14.6
70°-80°	700.4	4.8
80°-90°	173.0	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°	14597.0	100.0
0°-180°	14597.0	100.0



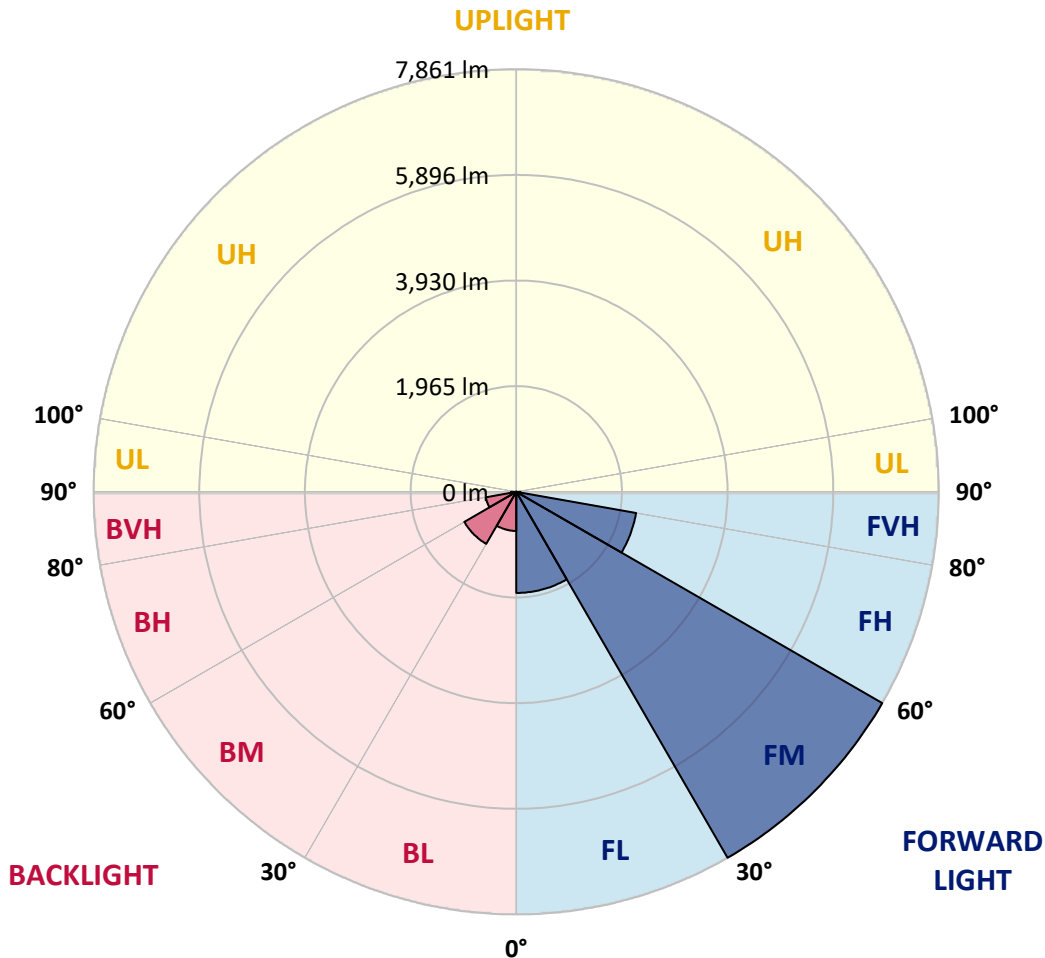
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.3	12.9			
FM (30°-60°)	7861.0	53.9			
FH (60°-80°)	2263.3	15.5			G2/5000
FVH (80°-90°)	76.2	0.5			G1/100
BL (0°-30°)	727.6	5.0	B2/1000		
BM (30°-60°)	1116.9	7.7	B2/2500		
BH (60°-80°)	574.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	96.9	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°	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6
2.5°	3717.7	3751.8	3736.8	3684.6	3644.5	3587.8	3524.6	3505.5	3438.8	3364.0	3274.2
5°	4306.1	4289.1	4264.5	4183.2	4097.5	3997.6	3839.1	3814.0	3665.5	3496.5	3317.9
7.5°	4641.2	4639.7	4625.2	4577.5	4499.3	4368.8	4177.7	4148.1	3923.9	3652.0	3375.1
10°	4592.6	4589.1	4613.1	4662.8	4686.4	4659.3	4498.3	4468.7	4193.3	3824.1	3441.3
12.5°	4316.2	4318.2	4356.8	4461.1	4603.1	4773.7	4747.6	4733.0	4472.7	4018.7	3521.6
15°	4101.0	4105.5	4136.1	4226.9	4394.4	4703.9	4899.1	4904.1	4743.1	4233.4	3615.4
17.5°	4006.7	4016.2	4030.2	4093.9	4247.4	4565.0	4935.2	4962.3	4979.8	4456.1	3705.7
20°	4036.8	4045.8	4049.8	4090.4	4216.3	4480.7	4910.1	4958.8	5161.4	4665.8	3796.0
22.5°	4171.7	4177.2	4179.7	4190.3	4288.1	4504.8	4893.6	4944.7	5292.9	4853.9	3864.2
25°	4395.4	4391.4	4375.4	4361.8	4427.5	4600.1	4931.7	4980.3	5399.7	5024.5	3908.8
27.5°	4663.3	4658.3	4627.2	4590.1	4627.7	4748.6	5041.5	5080.2	5495.5	5184.0	3931.4
30°	4984.9	4971.8	4913.1	4869.0	4883.5	4971.3	5222.6	5257.8	5643.5	5365.1	3953.5
32.5°	5356.6	5342.5	5257.8	5184.5	5184.5	5257.8	5409.3	5438.4	5768.9	5569.8	3989.1
35°	5822.1	5804.6	5694.2	5571.3	5536.7	5573.8	5663.6	5684.2	5994.7	5827.6	4053.8
37.5°	6370.9	6347.3	6204.4	6039.8	5964.1	5962.1	6026.8	6068.9	6355.4	6166.2	4163.7
40°	6921.2	6904.7	6779.8	6650.3	6501.8	6454.2	6554.0	6567.1	6826.9	6586.6	4304.1
42.5°	7346.6	7343.6	7320.5	7337.6	7185.6	7089.3	7167.5	7178.1	7402.8	7041.6	4453.6
45°	7571.4	7576.4	7688.2	7936.1	7992.2	7922.0	7960.6	7963.6	8061.0	7500.6	4590.6
47.5°	7391.3	7417.3	7700.3	8254.6	8714.6	8947.9	8883.7	8920.8	8699.1	7894.9	4697.9
50°	6689.5	6721.6	7203.1	8112.6	9051.7	9940.6	9907.0	9898.5	9213.7	8183.9	4756.1
52.5°	5820.1	5845.2	6242.5	7374.7	8804.4	10489.4	10797.9	10753.8	9671.2	8400.1	4767.1
55°	4496.3	4535.4	4916.1	5901.9	7804.1	10279.7	11453.1	11413.5	10088.1	8513.4	4754.1
57°	3196.5	3237.6	3615.9	4504.3	6565.1	9553.9	11518.3	11560.4	10313.4	8532.5	4768.7
57.5°	2852.4	2894.5	3269.2	4132.1	6178.8	9291.5	11462.1	11532.4	10354.0	8529.5	4776.7
60°	1436.2	1452.3	1691.1	2306.6	3905.8	7511.7	10729.2	10910.3	10390.6	8382.0	4811.3
62.5°	892.9	881.4	873.9	1062.5	1900.2	4981.4	9216.8	9565.4	9689.8	8024.8	4727.5
65°	785.1	763.5	680.7	665.7	839.3	2419.4	6940.8	7374.7	8192.4	7462.0	4527.9
67.5°	737.4	716.4	623.0	566.9	567.4	959.1	4309.1	4797.7	6381.9	6510.4	4056.8
70°	688.3	669.2	581.9	515.7	483.1	531.2	1982.5	2353.2	4160.2	5117.3	3390.6
72.5°	625.1	612.0	529.2	461.0	426.4	397.8	759.0	896.4	2408.4	3436.8	2354.7
75°	558.8	546.8	476.1	410.8	368.7	313.0	427.4	460.5	1223.5	1758.3	1159.3
77.5°	486.1	479.1	423.4	363.2	329.6	259.4	302.5	318.5	524.7	754.0	581.4
80°	386.8	400.3	370.2	323.6	292.5	207.7	214.2	224.7	305.5	368.2	330.1
82.5°	251.8	275.4	290.0	262.9	240.8	163.5	154.0	158.5	199.2	224.7	143.5
85°	104.8	117.9	190.6	172.1	160.0	119.4	103.3	105.3	123.4	127.9	58.7
87.5°	46.7	49.7	83.8	78.8	67.7	41.1	44.1	48.2	65.7	62.2	22.6
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°	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6	3237.6
2.5°	3240.6	3198.5	3126.3	3046.5	2981.3	2929.1	2876.4	2840.3	2798.2	2775.6	2764.1
5°	3243.1	3160.4	3008.4	2852.4	2712.9	2585.5	2464.1	2370.8	2283.5	2236.3	2223.3
7.5°	3253.7	3129.3	2883.5	2626.6	2378.8	2152.6	1978.0	1868.6	1789.9	1754.8	1744.7
10°	3262.2	3092.7	2729.0	2348.7	2011.6	1782.4	1646.9	1585.7	1558.6	1554.1	1549.6
12.5°	3282.3	3055.0	2566.4	2058.8	1726.2	1567.6	1520.5	1516.5	1524.0	1535.0	1535.0
15°	3313.9	3017.9	2380.8	1809.9	1544.6	1488.9	1498.4	1520.5	1541.1	1558.1	1560.6
17.5°	3337.0	2972.3	2181.2	1610.8	1447.8	1462.8	1496.9	1528.0	1549.1	1565.6	1567.1
20°	3353.5	2901.5	1968.0	1458.8	1392.1	1438.7	1481.4	1509.0	1523.5	1540.1	1542.6
22.5°	3345.0	2806.7	1778.8	1349.9	1346.9	1403.6	1444.2	1477.3	1466.3	1450.3	1460.8
25°	3303.8	2676.3	1584.2	1268.7	1299.3	1356.5	1406.6	1384.5	1347.4	1340.4	1344.4
27.5°	3230.6	2509.7	1404.1	1193.4	1244.1	1312.8	1309.8	1287.7	1274.7	1265.7	1271.2
30°	3151.8	2329.1	1246.6	1127.7	1182.9	1239.6	1228.0	1227.5	1214.5	1199.9	1207.0
32.5°	3074.1	2147.5	1121.7	1073.5	1136.7	1144.3	1169.3	1176.9	1151.3	1120.7	1118.7
35°	3006.4	1976.0	1026.9	1024.4	1081.0	1082.1	1118.7	1108.1	1044.4	1012.8	1012.8
37.5°	2955.7	1804.9	954.6	980.2	1007.8	1033.9	1052.5	1008.8	998.3	980.7	980.2
40°	2933.6	1654.4	909.5	946.6	956.1	989.2	941.6	958.6	963.7	954.6	954.6
42.5°	2910.6	1523.5	870.4	921.0	919.5	915.0	890.9	913.0	933.1	933.6	932.1
45°	2887.5	1410.6	835.7	866.3	887.4	838.8	843.3	866.8	894.9	905.0	905.0
47.5°	2861.9	1321.3	804.1	808.7	841.3	808.7	805.1	823.2	856.3	872.4	875.9
50°	2805.7	1241.1	768.0	758.0	767.0	778.1	781.1	789.6	826.2	851.8	857.8
52.5°	2728.0	1169.3	721.9	711.3	711.3	753.0	767.0	769.5	800.6	831.2	837.2
55°	2663.2	1123.7	674.2	672.2	670.2	726.4	750.5	754.5	776.0	800.1	803.1
57°	2667.8	1120.2	637.6	639.6	639.1	699.3	734.9	743.4	754.5	775.0	778.6
57.5°	2670.3	1122.7	629.6	630.6	630.1	691.8	730.4	739.9	748.5	770.0	773.5
60°	2707.9	1129.2	597.0	585.9	588.4	651.6	704.8	716.9	722.4	751.0	755.5
62.5°	2652.2	1100.1	570.9	544.3	544.3	609.5	669.2	688.3	696.8	735.4	742.9
65°	2490.7	1018.3	540.3	497.1	502.1	567.4	626.6	657.7	670.7	718.9	726.9
67.5°	2241.4	923.5	507.7	455.0	460.0	523.2	582.4	616.0	636.6	700.8	707.3
70°	1916.8	807.7	463.5	410.3	416.4	475.1	530.2	568.4	599.0	683.7	685.8
72.5°	1413.1	662.2	401.8	361.2	367.7	418.9	477.6	521.7	562.8	641.1	640.1
75°	840.3	517.7	333.6	311.5	316.0	363.7	429.9	483.6	545.3	624.6	634.1
77.5°	509.7	389.8	271.9	260.9	266.4	315.0	395.8	453.0	537.8	588.9	585.9
80°	308.0	278.4	217.2	210.2	215.7	269.4	366.2	429.9	470.0	503.2	503.2
82.5°	161.0	170.1	159.5	154.0	161.5	218.7	333.1	375.2	415.4	356.7	333.1
85°	65.7	88.8	96.8	96.3	100.8	151.5	287.4	321.1	267.9	254.3	260.4
87.5°	22.1	37.6	47.2	40.6	42.6	95.3	199.2	155.0	184.1	128.4	121.9
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)