

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: P317767

Luminaire Tested: **GAN-SA3C-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22078 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

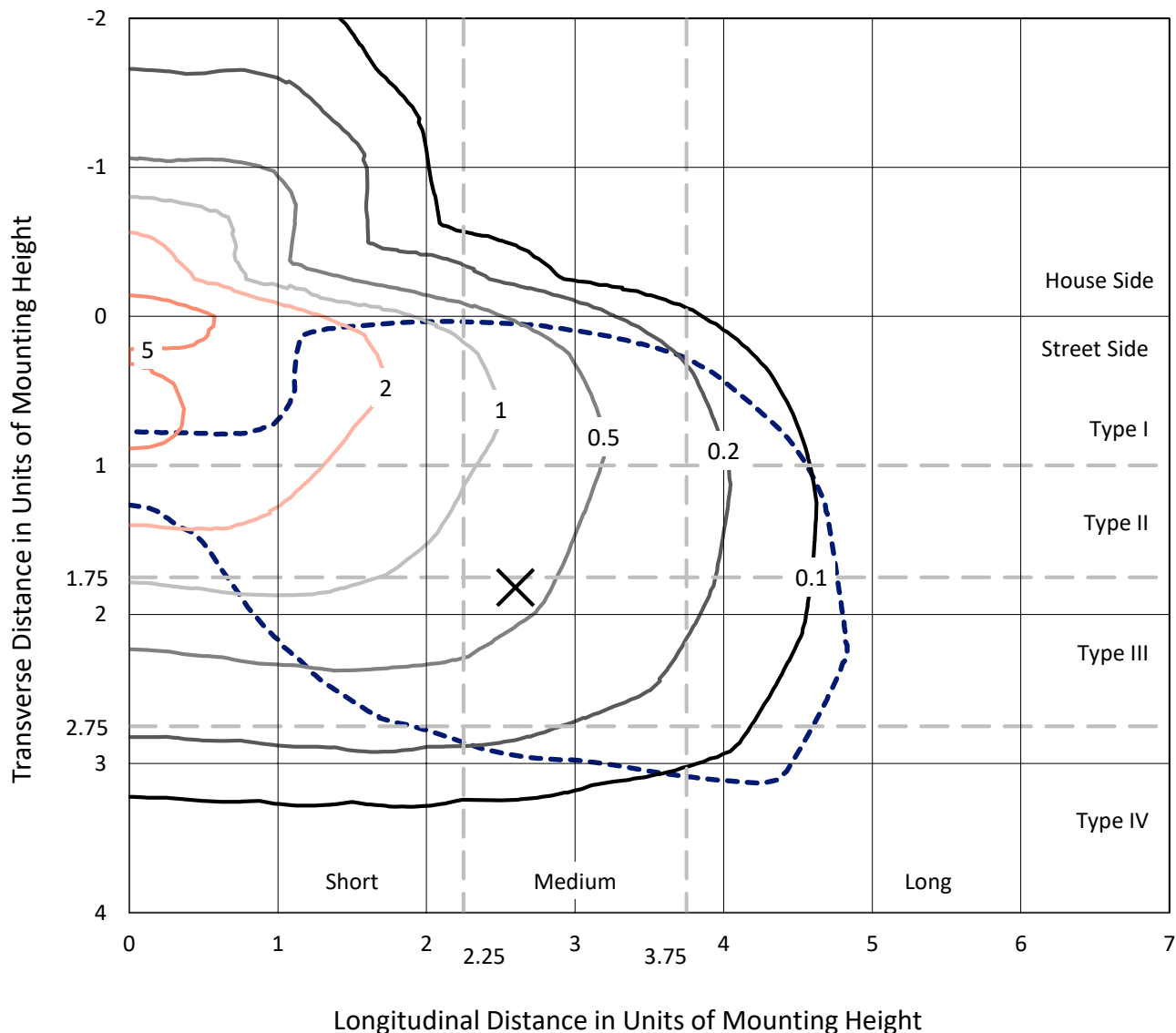
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

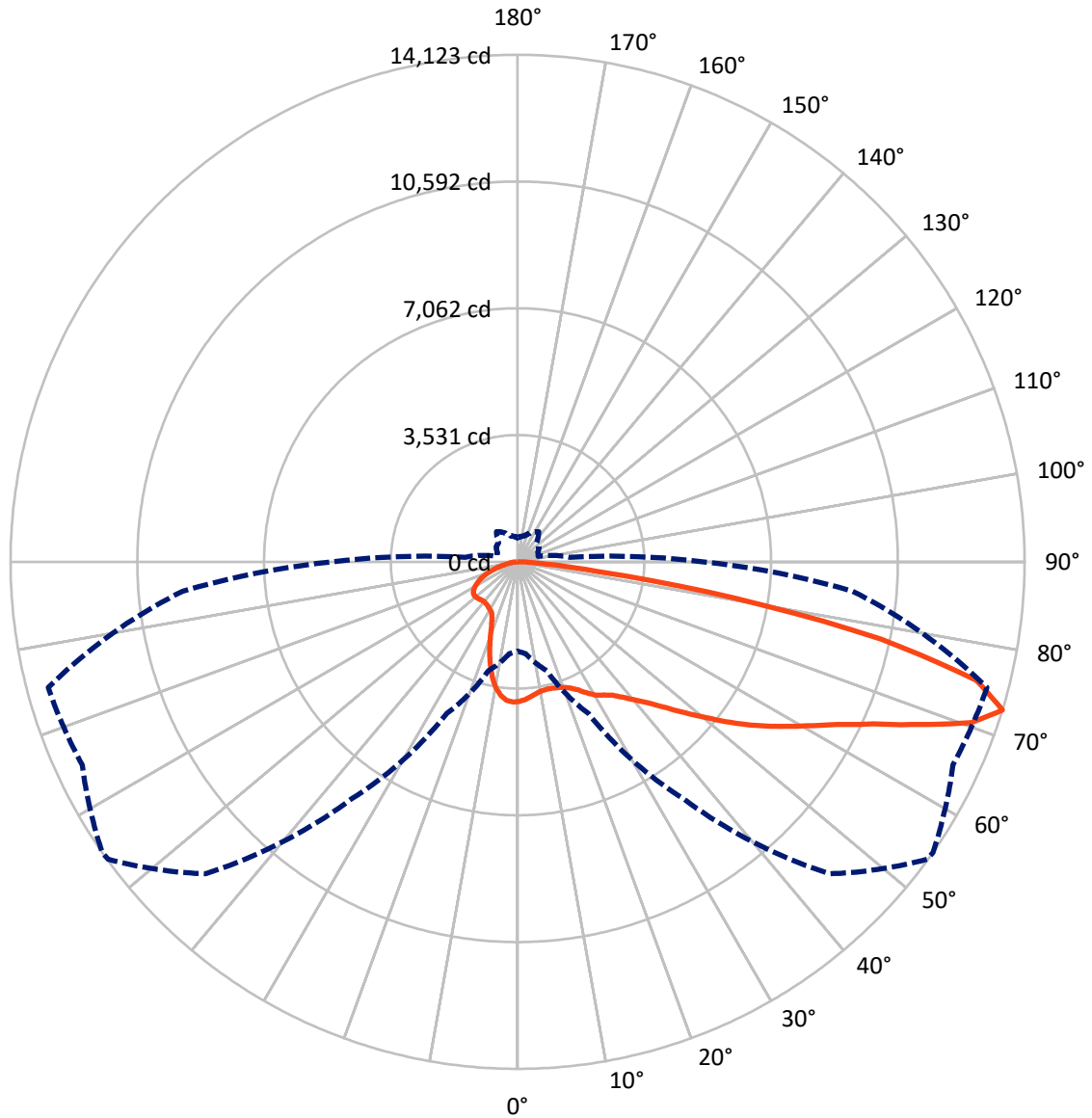
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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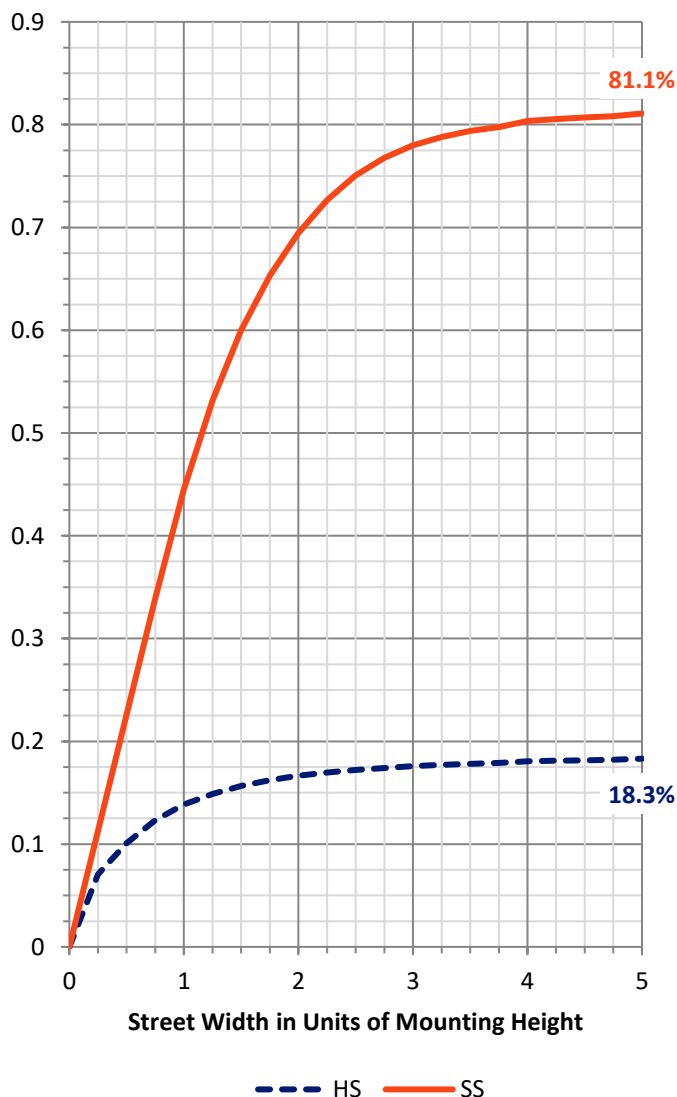
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4103.6	0.0	4103.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17974.4	0.0	17974.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	22078.0	0.0	22078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.6
10°-20°	938.1	4.2
20°-30°	1546.8	7.0
30°-40°	2288.0	10.4
40°-50°	3193.6	14.5
50°-60°	4158.2	18.8
60°-70°	5110.3	23.1
70°-80°	4005.8	18.1
80°-90°	484.8	2.2
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°	22078.0	100.0
0°-180°	22078.0	100.0

Coefficient of Utilization

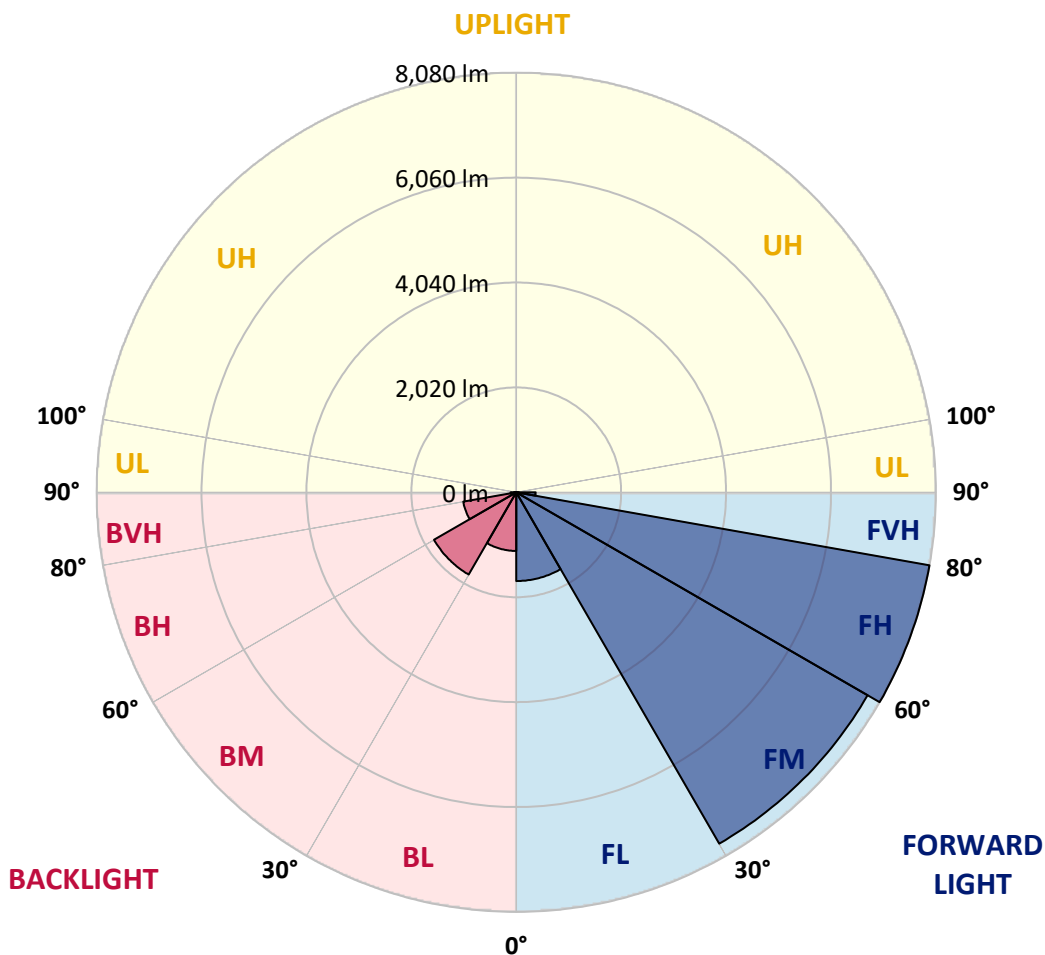


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.2	7.7			
FM (30°-60°)	7811.6	35.4			
FH (60°-80°)	8079.8	36.6			G4/12000
FVH (80°-90°)	374.8	1.7			G3/500
BL (0°-30°)	1129.1	5.1	B3/2500		
BM (30°-60°)	1828.2	8.3	B2/2500		
BH (60°-80°)	1036.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	110.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1
2.5°	3767.3	3758.4	3769.6	3785.2	3802.4	3825.5	3838.9	3844.9	3868.0	3876.9	3896.3
5°	3592.8	3588.3	3607.0	3633.8	3671.9	3725.6	3768.8	3777.0	3838.2	3881.4	3920.9
7.5°	3466.0	3466.0	3487.7	3519.7	3562.2	3634.6	3695.7	3706.9	3810.6	3903.8	3976.9
10°	3365.4	3369.1	3394.5	3432.5	3482.5	3559.3	3640.5	3653.2	3803.1	3956.0	4072.3
12.5°	3298.3	3307.2	3330.3	3364.6	3426.5	3519.7	3622.6	3639.8	3818.8	4030.5	4187.1
15°	3340.8	3355.7	3357.9	3372.1	3406.4	3507.8	3633.1	3651.0	3852.3	4106.6	4317.6
17.5°	3527.2	3532.4	3509.3	3479.5	3463.1	3527.9	3664.4	3683.0	3892.6	4181.9	4442.9
20°	3810.6	3807.6	3757.6	3677.1	3593.6	3604.0	3715.9	3735.2	3947.0	4248.3	4568.2
22.5°	4168.5	4158.1	4081.3	3932.9	3790.4	3730.8	3806.1	3822.5	4029.1	4343.0	4702.4
25°	4602.5	4579.4	4478.0	4278.9	4069.3	3915.7	3941.8	3957.5	4148.4	4448.9	4825.5
27.5°	5060.4	5037.3	4908.2	4667.4	4388.5	4149.1	4129.0	4142.4	4284.1	4527.2	4916.4
30°	5539.1	5514.5	5396.7	5126.7	4727.0	4390.7	4303.5	4308.7	4379.5	4569.7	4991.0
32.5°	6020.1	5997.0	5865.0	5551.8	5094.7	4650.2	4429.5	4422.8	4437.0	4613.7	5075.3
35°	6507.8	6516.7	6362.4	6015.6	5501.8	4938.8	4578.6	4564.5	4533.2	4703.9	5194.6
37.5°	7029.8	7023.8	6824.0	6461.6	5927.6	5252.0	4792.7	4790.4	4682.3	4874.7	5381.8
40°	7378.8	7382.5	7261.0	6917.9	6357.9	5598.8	5067.1	5061.9	4920.2	5130.5	5627.1
42.5°	7515.2	7539.8	7571.2	7353.4	6808.3	6000.7	5394.4	5387.0	5252.0	5497.4	5915.7
45°	7524.9	7574.2	7768.0	7740.4	7264.7	6460.8	5812.8	5791.9	5695.0	5985.0	6260.2
47.5°	7441.4	7492.1	7814.3	7970.9	7672.6	6946.3	6302.0	6285.6	6202.0	6595.0	6633.1
50°	7258.7	7307.2	7718.8	8083.5	8008.2	7413.1	6865.7	6822.5	6777.7	7299.7	7059.6
52.5°	6916.4	7009.6	7591.3	8110.3	8208.7	7827.7	7458.6	7430.2	7454.8	8043.2	7486.9
55°	6105.9	6210.3	7262.4	8087.9	8357.1	8175.9	8051.4	8049.9	8177.4	8823.2	7945.5
57.5°	5651.7	5725.5	6592.8	8049.9	8533.1	8521.9	8638.3	8652.4	8900.8	9672.6	8425.7
60°	5395.2	5472.7	6253.5	7909.0	8806.1	8969.4	9237.1	9265.4	9636.0	10612.9	9003.7
62.5°	5161.8	5246.8	6043.2	7621.9	9127.5	9609.2	9954.4	9979.8	10414.5	11579.3	9562.2
65°	4762.8	4859.0	5735.2	7433.2	9419.8	10443.6	10866.4	10883.6	11308.7	12592.0	9989.5
67.5°	4199.1	4287.1	5154.3	7016.4	9636.0	11457.0	12079.0	12088.7	12195.3	13307.1	10208.0
70°	3540.6	3574.2	4326.6	6155.8	9380.3	12404.8	13407.8	13410.1	13003.6	13765.0	10172.2
72.5°	2487.7	2566.7	3140.9	4659.9	8061.1	12289.3	14097.6	14123.0	13379.5	13533.8	9359.4
75°	1525.7	1609.2	1970.2	2824.0	5114.1	9665.1	13025.3	13201.3	12674.8	12067.0	7645.7
77.5°	1020.1	1051.4	1285.6	1646.5	2316.9	5560.7	10014.1	10345.2	10529.4	8800.1	4889.6
80°	569.0	628.6	852.3	1023.1	1030.6	2209.5	6004.4	6082.0	5858.3	3504.1	1508.6
82.5°	301.3	334.1	569.0	601.0	562.3	739.7	2237.9	2240.1	1871.7	939.6	448.2
85°	233.4	261.0	390.0	366.9	287.1	328.1	738.3	778.5	636.8	384.8	146.2
87.5°	116.3	144.7	264.7	232.7	112.6	94.0	264.0	281.9	251.3	150.6	52.9
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°	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1	3894.1
2.5°	3903.8	3910.5	3918.7	3909.7	3906.8	3894.8	3874.7	3870.2	3859.8	3860.5	3866.5
5°	3938.1	3949.3	3944.8	3910.5	3869.5	3812.1	3752.4	3701.7	3668.1	3665.9	3663.7
7.5°	4003.7	4011.2	3976.1	3878.4	3763.6	3630.8	3505.6	3396.0	3329.6	3313.2	3309.4
10°	4106.6	4105.1	4008.9	3812.1	3583.1	3346.0	3144.6	2992.5	2903.8	2877.7	2871.0
12.5°	4221.4	4204.3	4020.1	3691.3	3328.1	2999.2	2744.2	2574.9	2482.5	2452.6	2445.2
15°	4340.0	4297.5	3992.5	3510.8	3014.9	2625.6	2357.9	2201.3	2151.4	2135.0	2132.0
17.5°	4450.4	4368.4	3913.5	3266.2	2657.7	2253.5	2044.7	1982.1	1994.0	2015.6	2016.4
20°	4558.5	4416.1	3786.7	2957.5	2281.1	1947.0	1876.2	1922.4	1979.1	2023.1	2029.1
22.5°	4665.1	4449.6	3623.4	2601.0	1944.1	1774.8	1824.7	1909.0	1973.9	2021.6	2029.8
25°	4754.6	4457.8	3398.2	2220.7	1709.9	1709.9	1800.1	1879.9	1944.1	1991.0	1999.2
27.5°	4787.4	4402.7	3080.5	1868.7	1592.1	1680.1	1765.8	1832.2	1886.6	1936.6	1945.6
30°	4800.1	4300.5	2713.6	1586.1	1543.6	1648.0	1719.6	1776.3	1827.7	1874.7	1882.9
32.5°	4802.4	4177.5	2324.4	1425.8	1510.1	1614.5	1662.2	1712.1	1767.3	1786.0	1789.0
35°	4816.5	4032.0	1914.2	1343.8	1478.7	1583.1	1621.2	1657.0	1567.5	1574.2	1580.2
37.5°	4857.5	3888.1	1571.2	1297.5	1458.6	1566.7	1612.2	1482.5	1412.4	1396.0	1393.7
40°	4934.3	3734.5	1316.9	1260.2	1451.1	1574.9	1554.8	1384.0	1263.2	1173.0	1159.6
42.5°	5041.0	3569.0	1154.4	1235.6	1456.4	1614.5	1475.0	1289.3	1088.7	1030.6	1023.1
45°	5161.0	3395.2	1066.4	1218.5	1474.3	1645.0	1458.6	1163.3	1007.5	963.5	959.7
47.5°	5277.4	3182.7	1020.9	1211.0	1498.9	1620.4	1389.3	1124.5	968.7	945.6	947.8
50°	5410.9	2991.0	993.3	1202.8	1520.5	1604.8	1311.0	1104.4	953.8	982.1	1011.9
52.5°	5523.5	2792.7	968.7	1186.4	1528.7	1577.2	1290.8	1108.1	953.8	1008.2	1036.5
55°	5656.9	2642.8	940.3	1152.1	1513.0	1498.9	1276.7	1130.5	964.9	930.6	933.6
57.5°	5829.2	2593.6	909.0	1098.4	1460.8	1384.8	1269.9	1152.1	958.2	936.6	944.1
60°	6067.8	2645.8	896.3	1028.3	1379.6	1295.3	1270.7	1140.9	911.3	874.0	874.7
62.5°	6295.3	2703.9	895.6	984.3	1279.6	1215.5	1253.5	1104.4	887.4	865.8	874.0
65°	6369.8	2645.0	859.8	935.1	1167.0	1120.1	1222.2	1065.6	869.5	836.7	835.2
67.5°	6269.9	2462.3	787.5	855.3	1038.0	1008.9	1181.2	1019.4	841.2	814.3	809.8
70°	5973.1	2054.4	698.0	750.2	891.1	883.7	1116.3	965.7	803.1	780.0	760.6
72.5°	5174.5	1463.8	588.4	624.2	725.6	749.4	1026.8	895.6	749.4	699.5	669.6
75°	4249.8	1083.5	483.2	490.7	551.1	616.0	903.8	813.6	686.1	601.0	577.9
77.5°	2602.5	662.9	384.8	387.8	395.2	491.4	744.2	721.8	605.5	501.1	484.7
80°	842.6	361.7	278.1	292.3	269.9	360.2	575.7	614.5	519.8	419.1	401.2
82.5°	320.7	211.0	187.9	197.6	187.2	241.6	419.8	492.2	425.8	344.5	280.4
85°	155.1	119.3	111.1	124.5	115.6	123.8	268.5	362.4	322.9	224.5	208.8
87.5°	55.2	52.9	42.5	57.4	49.2	44.0	82.0	182.7	213.3	154.4	138.0
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)