

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: P317388

Luminaire Tested: **GAN-SA4A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17836 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

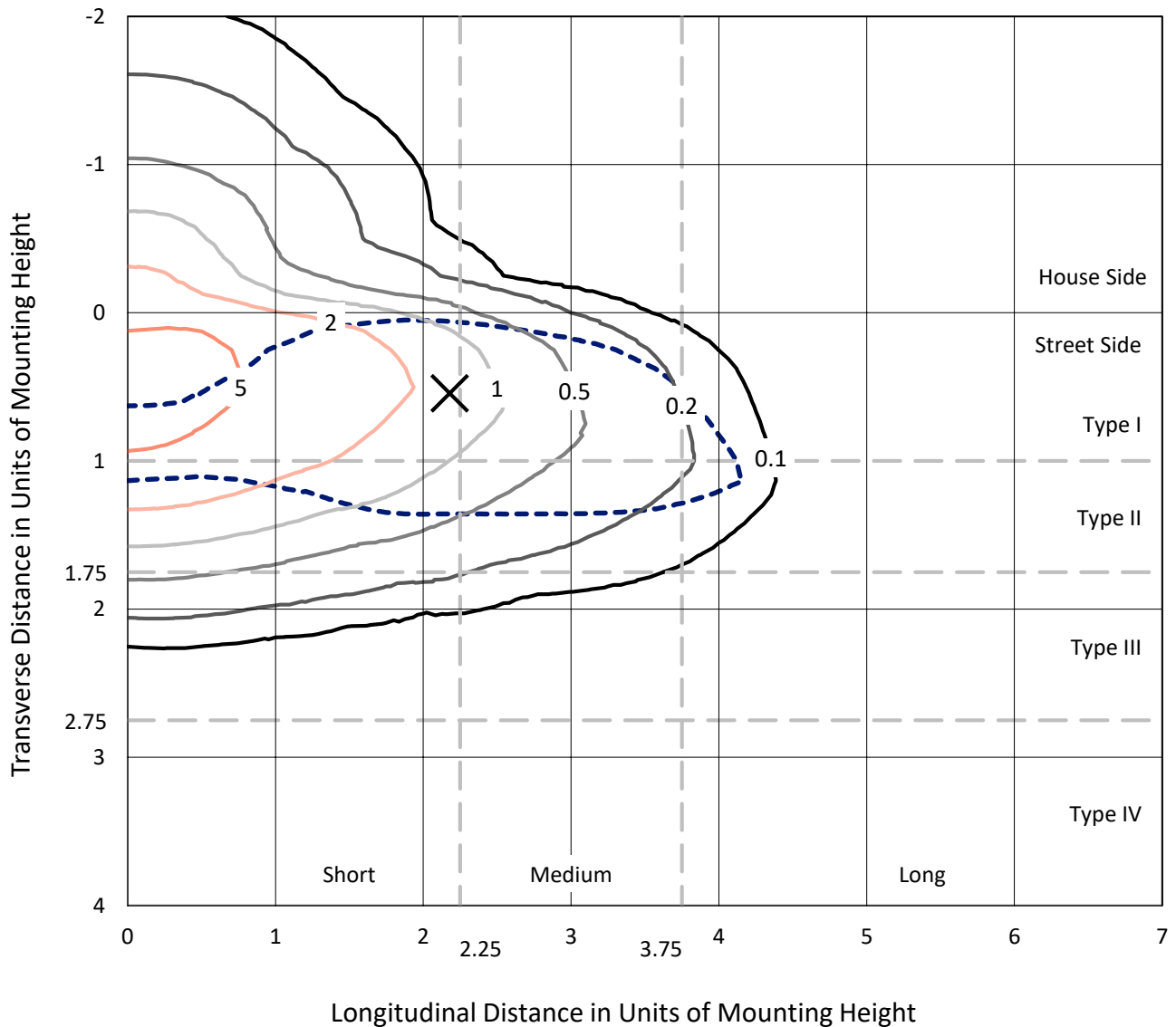
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

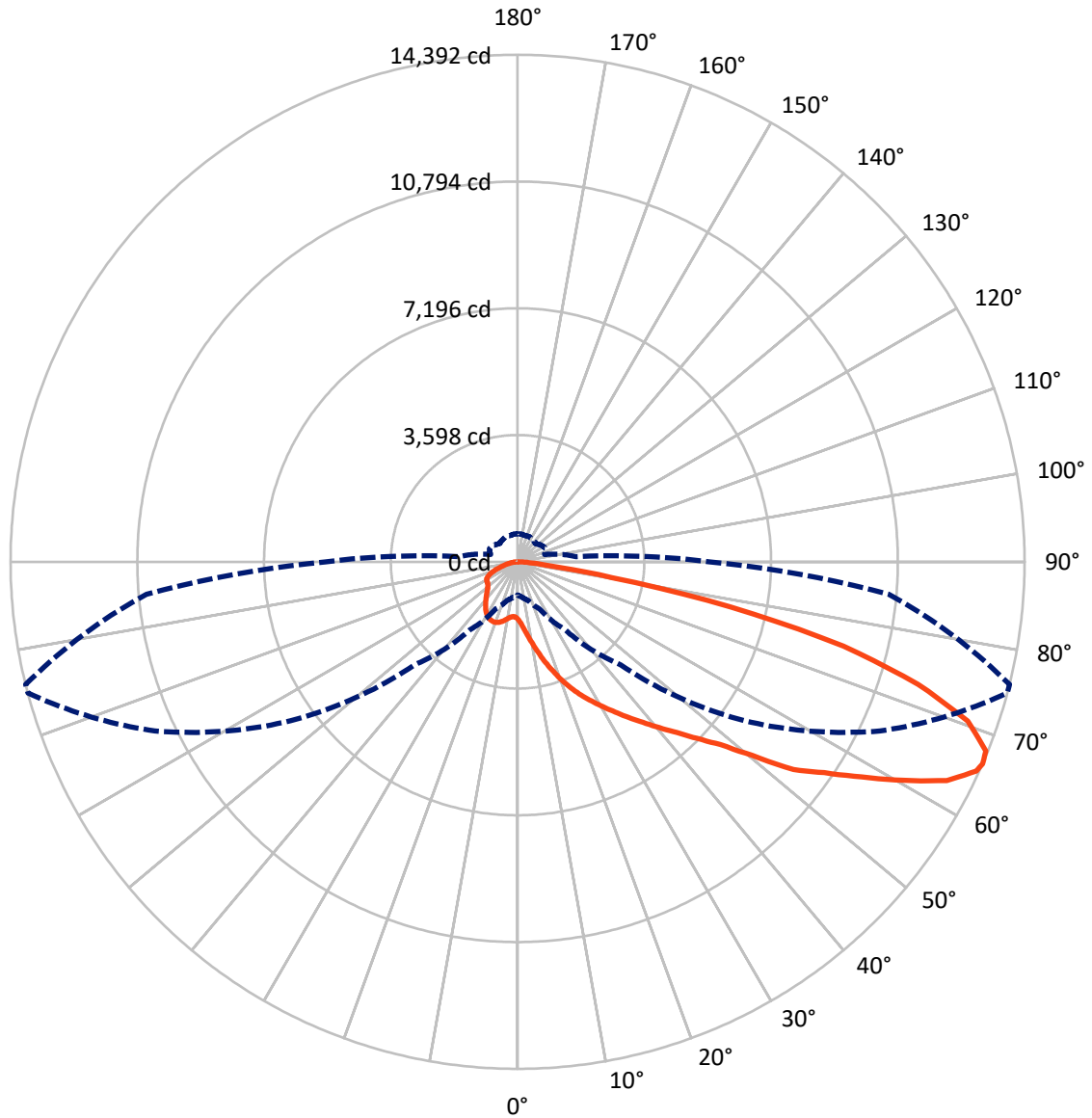
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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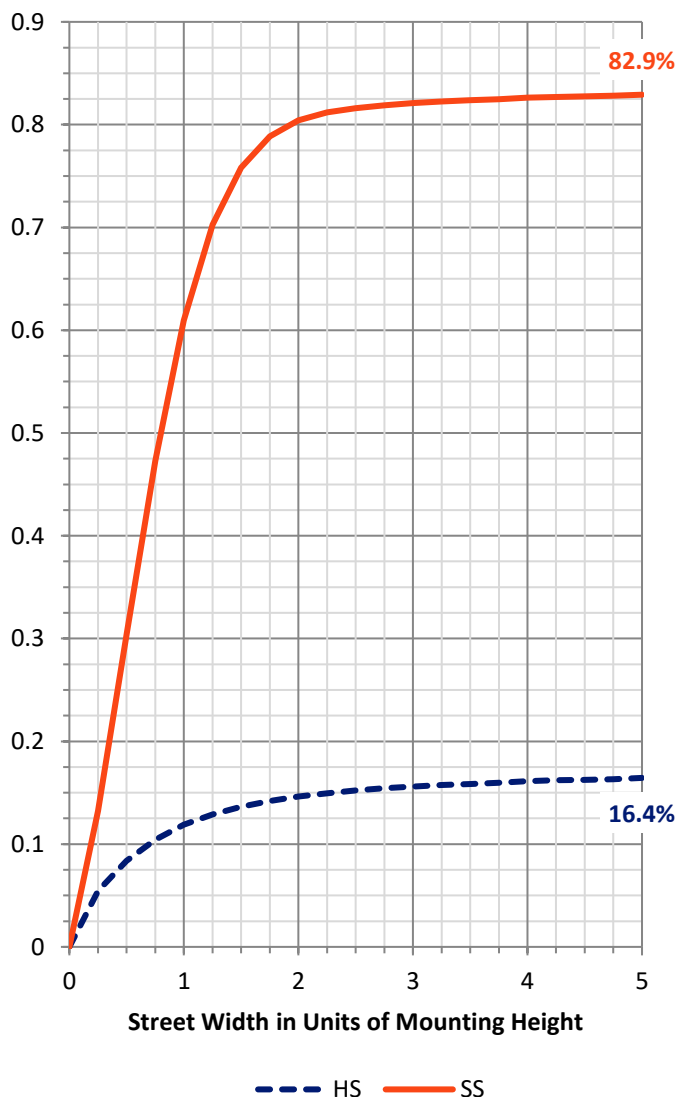
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3001.2	0.0	3001.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	14834.8	0.0	14834.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	17836.0	0.0	17836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.1
10°-20°	777.8	4.4
20°-30°	1511.5	8.5
30°-40°	2467.1	13.8
40°-50°	3370.6	18.9
50°-60°	3926.1	22.0
60°-70°	3519.8	19.7
70°-80°	1778.8	10.0
80°-90°	287.2	1.6
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°	17836.0	100.0
0°-180°	17836.0	100.0

Coefficient of Utilization

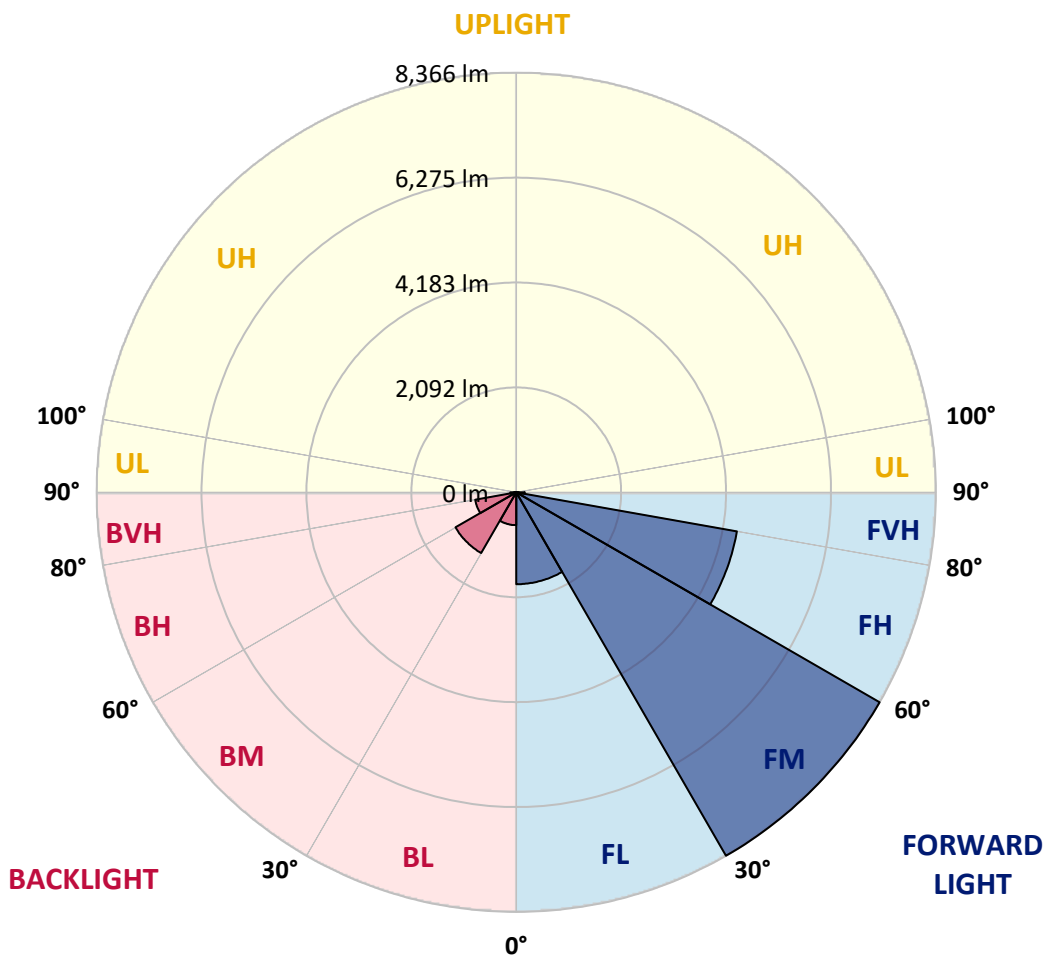


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.7	10.3			
FM (30°-60°)	8366.3	46.9			
FH (60°-80°)	4467.1	25.0			G2/5000
FVH (80°-90°)	169.6	1.0			G2/225
BL (0°-30°)	654.6	3.7	B2/1000		
BM (30°-60°)	1397.5	7.8	B2/2500		
BH (60°-80°)	831.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	117.6	0.7			G2/225
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°	65°	75°	76°	85°
0°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	2162.3	2129.6	2126.6	2078.7	2067.8	1976.4	1909.2	1838.9	1759.0	1743.3	1680.3
5°	2777.5	2774.5	2732.7	2654.6	2593.4	2437.2	2282.8	2119.3	1940.1	1911.0	1769.3
7.5°	3330.9	3326.1	3294.0	3209.8	3121.4	2929.5	2709.1	2458.4	2167.7	2124.7	1889.8
10°	3751.2	3749.3	3738.4	3676.7	3601.6	3417.5	3174.1	2832.0	2432.3	2373.6	2040.6
12.5°	4075.7	4079.3	4086.6	4064.8	4029.1	3872.3	3622.8	3228.0	2714.5	2656.4	2208.3
15°	4295.5	4306.4	4343.9	4374.8	4393.6	4297.3	4055.7	3633.1	3030.6	2961.0	2394.2
17.5°	4406.3	4418.4	4483.2	4576.5	4662.4	4652.8	4460.8	4019.4	3334.0	3266.7	2594.0
20°	4502.0	4511.1	4583.7	4695.8	4847.7	4914.9	4807.2	4391.2	3666.4	3586.5	2805.9
22.5°	4779.3	4790.8	4812.6	4876.2	5010.6	5134.1	5082.1	4743.0	3971.0	3896.5	3007.0
25°	5314.6	5328.5	5281.3	5227.4	5252.8	5338.8	5348.5	5063.9	4279.8	4195.6	3223.1
27.5°	5959.5	5979.4	5898.9	5760.2	5639.1	5605.8	5594.3	5326.7	4574.6	4477.2	3436.9
30°	6591.0	6625.5	6520.8	6340.9	6118.7	5962.5	5846.8	5584.0	4865.3	4772.0	3638.5
32.5°	7208.0	7194.1	7042.1	6866.5	6606.1	6410.6	6130.8	5860.2	5192.3	5085.1	3839.0
35°	7630.7	7635.5	7494.4	7286.1	7037.9	6887.7	6511.1	6158.1	5525.9	5427.2	4066.6
37.5°	7990.3	7967.9	7808.1	7613.7	7400.0	7335.8	6956.1	6486.3	5887.4	5779.6	4308.8
40°	8110.2	8084.2	7979.4	7839.6	7668.2	7662.8	7447.2	6858.0	6296.1	6189.6	4581.9
42.5°	8037.6	8004.3	7961.3	7923.1	7870.5	7894.7	7908.6	7294.0	6745.4	6626.1	4898.0
45°	7769.3	7719.1	7749.4	7832.3	7946.7	8083.6	8325.2	7776.6	7248.6	7148.7	5269.2
47.5°	7357.0	7311.6	7406.0	7583.4	7894.7	8241.0	8719.4	8309.5	7849.3	7750.0	5797.8
50°	6776.9	6790.2	6925.2	7248.0	7718.5	8313.7	9205.0	9014.9	8722.4	8629.8	6518.9
52.5°	5825.0	5827.5	6207.7	6737.5	7406.0	8276.1	9474.5	9916.5	9914.7	9802.6	7205.6
55°	4941.0	4994.9	5295.8	6000.0	6899.8	8126.0	9662.8	10354.9	10697.6	10566.2	7845.6
57.5°	4077.5	4109.0	4394.2	5101.4	6177.4	7725.7	9855.9	10881.1	11599.8	11516.9	8641.3
60°	3095.4	3143.8	3438.7	4092.1	5253.4	7015.5	9874.1	11430.3	12678.2	12594.7	9529.6
62.5°	2009.1	2092.7	2368.8	2980.9	4135.7	5994.0	9452.7	11789.3	13700.3	13670.7	10317.9
65°	1154.7	1217.7	1409.6	1881.9	2853.2	4711.5	8450.5	11651.3	14329.5	14312.5	10612.8
66°	943.4	982.7	1129.9	1470.8	2354.2	4137.5	7868.0	11360.0	14391.8	14392.4	10578.9
67.5°	754.5	772.0	838.0	1053.0	1737.2	3279.5	6827.2	10717.6	14314.3	14335.5	10360.3
70°	624.3	633.4	654.0	706.0	948.2	1977.6	4845.9	9048.2	13536.2	13552.6	9507.2
72.5°	560.1	565.5	573.4	580.7	669.1	1105.1	2959.7	7238.3	11868.0	11889.2	8207.1
75°	507.4	510.4	509.2	509.8	561.3	704.2	1529.5	5404.2	9596.2	9553.8	6287.0
77.5°	445.7	448.7	442.6	443.8	496.5	541.3	761.1	3783.2	6476.0	6176.8	3542.2
80°	376.6	379.1	376.6	380.9	432.3	408.7	442.6	2128.4	2863.5	2708.5	1259.5
82.5°	284.6	294.9	302.2	319.1	356.0	290.6	296.1	828.9	871.9	830.2	386.3
85°	124.7	152.0	227.7	244.0	267.6	174.4	194.4	337.9	354.8	343.9	140.5
87.5°	32.7	35.7	112.6	141.7	148.4	78.7	101.1	153.8	162.3	153.8	46.6
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°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1647.0	1617.3	1564.0	1516.8	1481.1	1456.9	1432.6	1420.5	1413.3	1406.0	1407.2
5°	1699.7	1639.7	1548.3	1483.5	1447.2	1424.2	1412.1	1407.2	1404.2	1396.9	1396.9
7.5°	1779.0	1694.2	1568.3	1501.7	1473.2	1455.7	1448.4	1446.0	1442.3	1433.9	1435.1
10°	1878.9	1760.2	1610.1	1545.3	1519.2	1499.9	1489.6	1485.9	1479.3	1469.6	1470.8
12.5°	1996.4	1842.0	1665.2	1597.3	1565.9	1539.8	1522.9	1512.6	1501.1	1488.4	1489.0
15°	2124.7	1931.0	1724.5	1644.0	1601.0	1564.6	1537.4	1519.8	1501.7	1485.9	1485.3
17.5°	2254.9	2017.0	1769.9	1669.4	1611.3	1563.4	1526.5	1499.2	1476.8	1457.5	1455.7
20°	2395.4	2094.5	1795.3	1667.0	1591.9	1535.0	1485.9	1452.0	1427.2	1407.8	1404.8
22.5°	2538.3	2167.1	1799.6	1642.2	1548.9	1479.3	1427.8	1390.3	1364.8	1344.8	1337.6
25°	2669.1	2223.4	1782.0	1594.3	1489.0	1413.9	1363.6	1325.5	1304.9	1281.3	1274.0
27.5°	2788.4	2262.8	1746.9	1533.2	1421.7	1347.9	1300.6	1267.9	1245.5	1227.4	1221.3
30°	2895.6	2284.0	1689.4	1460.5	1352.7	1285.5	1245.5	1223.1	1203.8	1180.7	1176.5
32.5°	2997.3	2284.0	1615.5	1381.2	1284.3	1230.4	1206.8	1192.9	1171.1	1148.7	1142.6
35°	3099.0	2270.1	1528.3	1298.2	1221.3	1191.0	1189.8	1173.5	1140.2	1109.9	1102.0
37.5°	3206.2	2241.6	1430.2	1220.7	1169.9	1173.5	1183.8	1147.4	1100.2	1057.2	1045.7
40°	3327.3	2202.2	1328.5	1153.5	1126.9	1165.6	1167.4	1109.9	1017.9	978.5	968.2
42.5°	3469.6	2162.9	1234.0	1094.2	1093.0	1142.0	1136.5	1028.8	973.7	953.7	948.2
45°	3656.7	2140.5	1144.4	1037.8	1066.3	1103.8	1083.9	984.0	960.9	949.4	944.6
47.5°	3951.6	2152.0	1062.1	993.0	1039.7	1065.7	985.8	965.8	949.4	935.5	930.7
50°	4320.9	2145.3	995.5	962.2	1009.4	1025.7	941.6	942.2	933.7	918.0	910.7
52.5°	4598.9	2093.3	952.5	944.6	982.7	954.9	913.7	919.2	914.9	891.9	884.0
55°	4867.1	2048.4	930.7	937.9	963.4	866.5	881.0	894.3	890.1	867.7	864.1
57.5°	5200.7	2040.0	917.4	939.8	947.0	822.3	849.5	867.1	864.1	854.4	852.6
60°	5609.5	2042.4	905.2	942.8	928.9	789.6	819.9	842.3	844.1	842.3	841.1
62.5°	5834.1	1976.4	875.0	934.3	896.8	761.1	789.0	821.7	822.3	825.9	825.3
65°	5643.4	1779.0	818.7	904.6	842.9	737.5	762.3	798.1	789.0	805.3	805.3
66°	5458.1	1665.2	790.8	885.3	819.9	728.4	753.9	786.0	774.5	796.9	796.9
67.5°	5079.6	1473.2	740.5	844.1	787.2	715.7	744.2	766.0	750.2	783.5	781.1
70°	4388.2	1139.6	639.4	750.8	733.3	696.9	730.9	726.0	703.0	753.9	744.2
72.5°	3699.7	865.9	513.5	628.5	651.5	673.3	712.1	675.1	646.1	681.8	660.6
75°	2870.7	650.9	405.7	488.6	550.4	636.4	689.7	616.4	574.6	571.0	559.5
77.5°	1551.9	446.9	321.5	373.0	437.2	590.4	674.5	553.4	490.5	475.9	466.9
80°	614.6	290.6	233.7	282.8	305.8	523.8	638.2	480.2	404.5	390.0	376.0
82.5°	253.7	172.0	150.8	189.5	199.2	448.1	572.8	393.6	312.4	432.3	459.0
85°	109.0	94.5	89.6	98.1	112.6	314.3	456.0	300.3	337.3	300.9	239.2
87.5°	32.7	40.0	38.1	37.5	41.2	75.1	242.8	167.1	247.7	93.9	70.2
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)