

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: P236828

Luminaire Tested: **ARCH-L-AF72-150-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19515.9 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

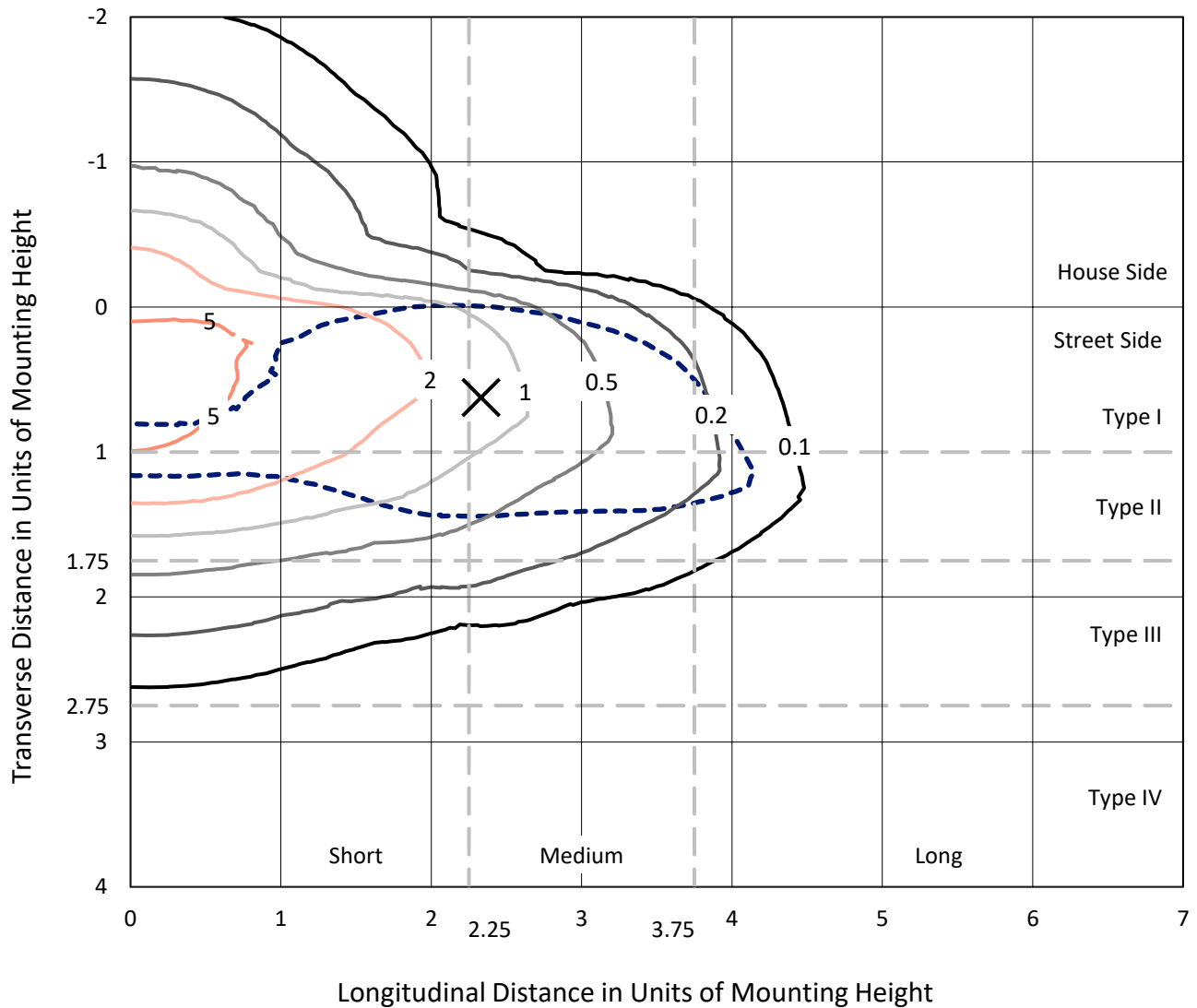
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

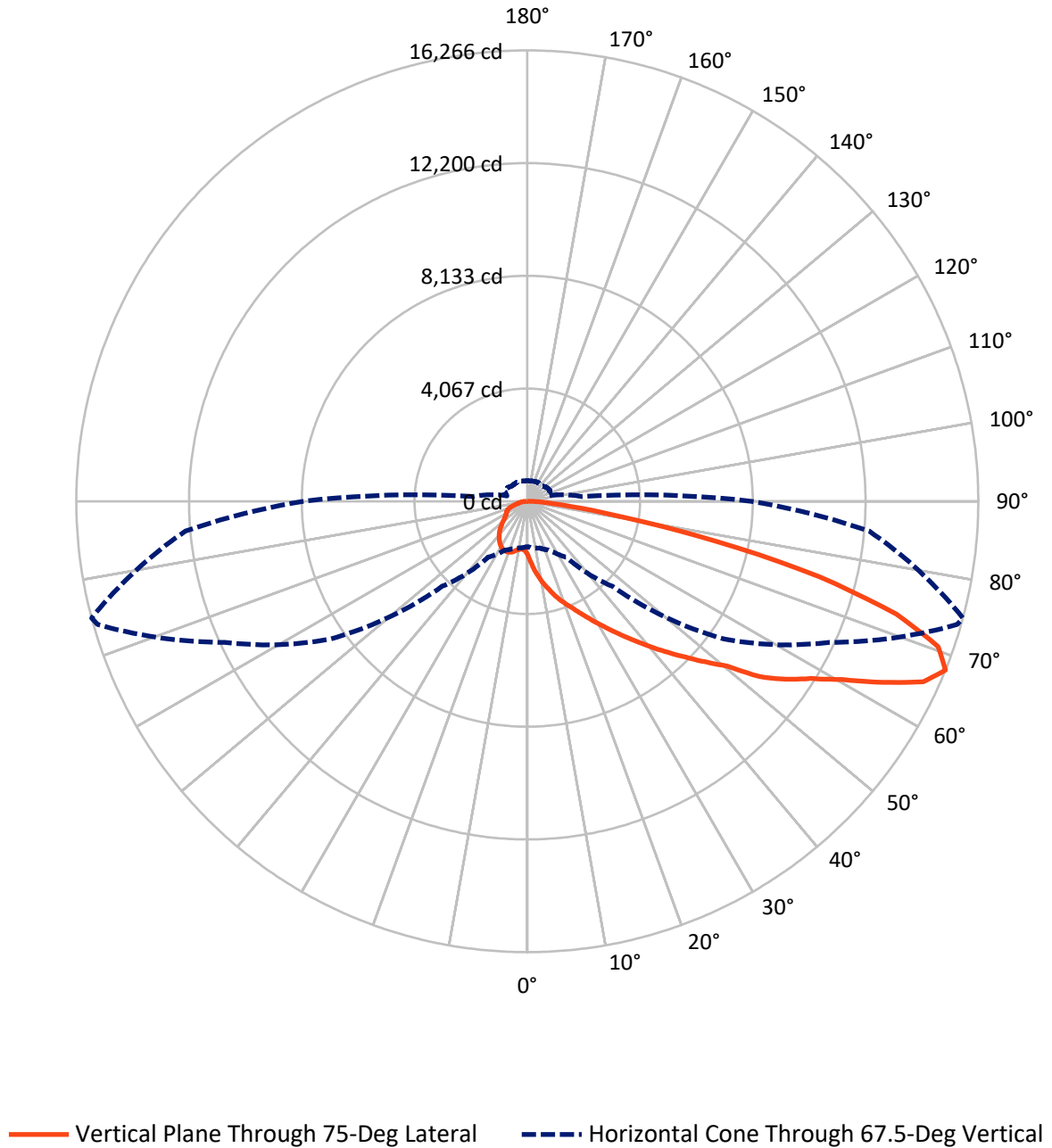
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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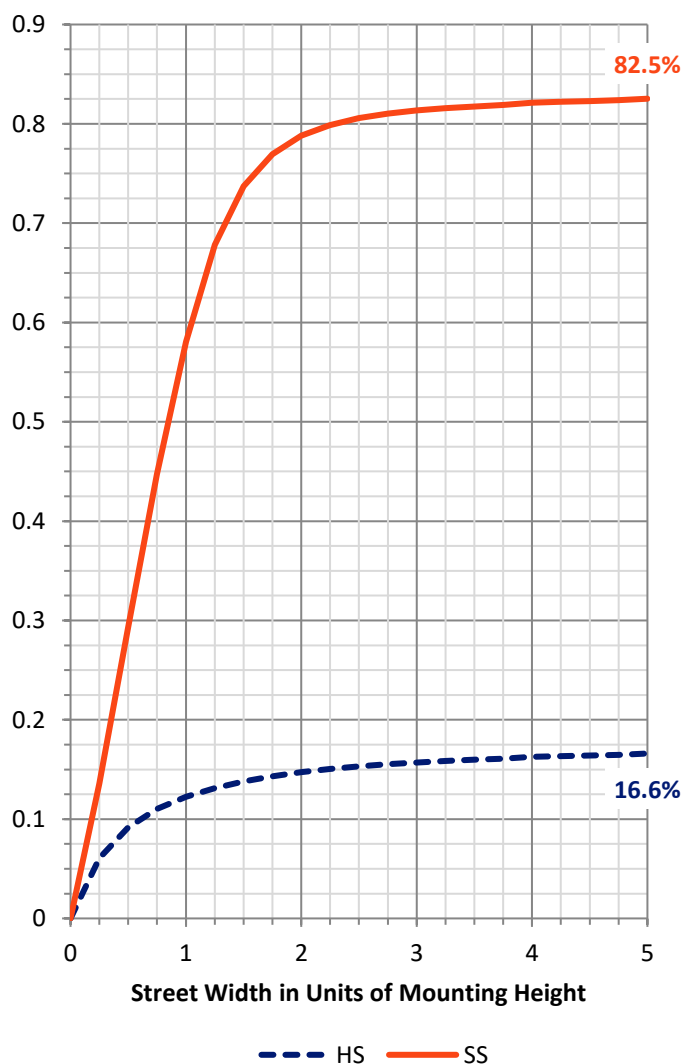
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3332.6	0.0	3332.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	16183.3	0.0	16183.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	19515.9	0.0	19515.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	1.2
10°-20°	821.0	4.2
20°-30°	1497.5	7.7
30°-40°	2458.0	12.6
40°-50°	3554.6	18.2
50°-60°	4189.1	21.5
60°-70°	4070.8	20.9
70°-80°	2262.8	11.6
80°-90°	435.1	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°	19515.9	100.0
0°-180°	19515.9	100.0

Coefficient of Utilization

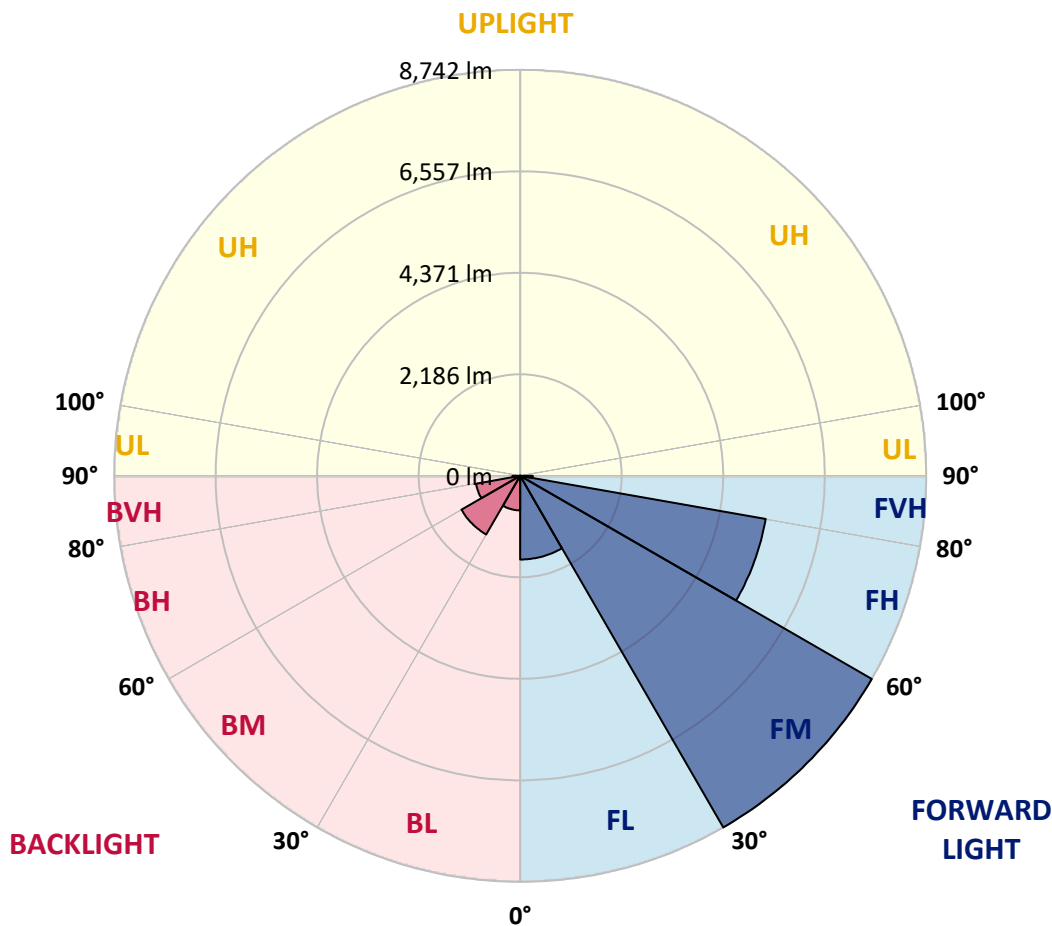


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.8	9.2			
FM (30°-60°)	8742.1	44.8			
FH (60°-80°)	5368.6	27.5			G3/7500
FVH (80°-90°)	270.8	1.4			G3/500
BL (0°-30°)	743.8	3.8	B2/1000		
BM (30°-60°)	1459.5	7.5	B2/2500		
BH (60°-80°)	964.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	164.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8
2.5°	2741.7	2749.8	2733.4	2696.7	2643.7	2545.8	2460.1	2309.2	2174.6	2158.2	2015.4
5°	3223.0	3231.3	3210.8	3165.9	3108.9	3002.8	2884.5	2688.7	2472.3	2431.6	2129.7
7.5°	3553.5	3557.6	3533.1	3488.2	3443.5	3337.4	3219.0	2998.6	2733.4	2700.9	2276.5
10°	3835.0	3843.2	3810.5	3782.0	3733.1	3627.0	3504.6	3272.0	2998.6	2953.9	2427.5
12.5°	4096.1	4104.4	4083.9	4059.4	4043.1	3945.2	3810.5	3533.1	3239.4	3190.4	2607.0
15°	4271.6	4279.6	4283.8	4316.4	4336.8	4267.4	4132.8	3830.9	3500.4	3455.7	2819.1
17.5°	4222.7	4243.0	4304.2	4422.5	4549.0	4553.1	4442.9	4124.6	3757.5	3708.6	3035.3
20°	4079.8	4096.1	4169.6	4349.1	4597.9	4740.8	4732.6	4422.5	3998.3	3945.2	3235.2
22.5°	4198.2	4218.5	4218.5	4328.7	4573.5	4838.6	4944.7	4716.2	4238.9	4190.0	3435.2
25°	4704.0	4716.2	4630.6	4585.7	4675.4	4920.3	5120.2	5034.4	4532.7	4475.6	3651.5
27.5°	5409.9	5389.4	5283.3	5103.8	5005.9	5071.2	5275.2	5336.4	4871.4	4802.0	3875.9
30°	6111.5	6099.3	5976.9	5736.2	5516.0	5377.2	5446.6	5605.6	5238.4	5156.9	4092.1
32.5°	6768.4	6748.1	6613.4	6331.9	6083.0	5826.0	5691.4	5850.5	5630.1	5536.2	4332.7
35°	7372.3	7319.2	7184.6	6890.8	6633.7	6389.1	6058.5	6083.0	6054.5	5956.5	4597.9
37.5°	7861.9	7821.0	7674.2	7400.7	7127.4	6895.0	6548.1	6348.2	6511.5	6417.6	4904.0
40°	8294.3	8249.4	8098.4	7825.0	7572.1	7351.8	7078.5	6670.5	7025.5	6919.4	5246.6
42.5°	8620.7	8588.0	8465.6	8196.3	7951.6	7751.6	7617.0	7078.5	7559.8	7457.9	5621.9
45°	8796.1	8763.4	8698.1	8481.9	8257.6	8102.5	8114.8	7564.0	8118.8	8033.2	6066.7
47.5°	8579.8	8604.3	8661.4	8620.7	8481.9	8408.5	8559.5	8065.8	8743.0	8661.4	6548.1
50°	8000.5	8025.0	8253.5	8535.0	8584.0	8673.6	8959.3	8645.1	9404.0	9338.7	7143.8
52.5°	6576.7	6711.2	7343.7	8016.8	8477.9	8849.1	9404.0	9506.0	10517.8	10517.8	8196.3
55°	4969.2	5087.5	5809.7	6984.6	8065.8	8865.4	9730.4	10089.4	11321.5	11337.9	8747.1
57.5°	4026.7	4100.2	4455.1	5658.7	7200.8	8661.4	10118.0	10591.1	11990.5	12064.0	9457.1
60°	3268.0	3308.7	3541.3	4377.7	6005.6	8110.7	10395.4	11309.2	12945.2	13047.3	10362.7
62.5°	2627.3	2668.2	2823.3	3325.1	4712.3	7078.5	10346.5	12055.8	14218.1	14385.4	11550.1
65°	2097.0	2141.9	2243.8	2553.9	3492.4	5797.4	9844.6	12439.3	15535.9	15699.1	12337.3
67.5°	1636.0	1676.8	1746.2	1950.2	2460.1	4336.8	8657.3	12035.5	16127.5	16266.2	12378.2
70°	1236.2	1256.6	1313.8	1444.3	1758.4	2880.4	6776.6	10680.9	15597.1	15723.6	11562.3
72.5°	958.7	954.7	987.2	1052.6	1228.1	1982.8	4491.8	8685.9	13789.8	13920.2	9865.0
75°	783.3	779.2	799.7	820.0	889.4	1330.0	2651.8	6539.9	11129.7	10880.9	7400.7
77.5°	660.9	656.8	677.3	681.3	709.8	918.0	1509.5	4304.2	7425.3	6996.9	4169.6
80°	559.0	554.8	579.3	587.5	607.9	673.1	869.0	2329.6	3728.9	3533.1	1990.9
82.5°	420.2	436.5	481.4	501.8	526.3	497.7	538.5	1028.1	1729.8	1652.3	864.9
85°	204.0	240.7	363.1	403.9	432.4	314.1	367.2	485.5	779.2	742.5	350.8
87.5°	69.4	61.1	216.3	257.0	281.6	142.8	204.0	269.3	322.4	293.8	110.2
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°	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8	1933.8
2.5°	1954.2	1893.0	1803.4	1734.0	1689.0	1652.3	1636.0	1631.9	1623.8	1619.7	1619.7
5°	1995.1	1884.8	1746.2	1672.8	1652.3	1636.0	1644.2	1648.2	1648.2	1648.2	1648.2
7.5°	2056.3	1901.2	1734.0	1685.0	1680.9	1680.9	1705.3	1717.5	1725.7	1725.7	1725.7
10°	2137.8	1929.7	1754.3	1713.5	1725.7	1734.0	1762.5	1778.8	1786.9	1791.1	1795.1
12.5°	2248.0	1990.9	1795.1	1762.5	1778.8	1782.9	1803.4	1811.4	1819.6	1823.6	1823.6
15°	2394.9	2080.8	1860.3	1819.6	1823.6	1819.6	1819.6	1811.4	1807.3	1807.3	1815.6
17.5°	2545.8	2166.4	1917.5	1860.3	1844.1	1811.4	1786.9	1766.6	1754.3	1746.2	1750.3
20°	2696.7	2243.8	1950.2	1868.6	1823.6	1770.6	1725.7	1697.3	1680.9	1664.6	1672.8
22.5°	2847.8	2317.4	1962.4	1844.1	1778.8	1701.2	1652.3	1607.4	1570.7	1546.2	1550.3
25°	3015.0	2398.9	1962.4	1815.6	1717.5	1636.0	1574.9	1501.3	1448.3	1427.9	1436.1
27.5°	3182.2	2468.2	1942.0	1762.5	1648.2	1566.7	1476.8	1391.2	1358.5	1346.3	1350.5
30°	3349.6	2521.3	1897.1	1697.3	1574.9	1485.1	1366.8	1309.6	1268.8	1236.2	1240.3
32.5°	3516.8	2558.1	1835.9	1615.6	1497.3	1383.0	1285.1	1219.9	1146.4	1105.6	1109.7
35°	3708.6	2586.6	1762.5	1534.0	1411.6	1293.3	1219.9	1113.8	1036.4	1003.6	995.5
37.5°	3908.4	2607.0	1685.0	1444.3	1326.0	1228.1	1154.6	1024.1	950.5	905.8	901.6
40°	4124.6	2615.1	1591.2	1350.5	1244.4	1187.2	1068.9	971.0	844.6	815.9	815.9
42.5°	4381.8	2611.1	1497.3	1256.6	1154.6	1093.3	1007.7	962.8	852.7	824.2	807.8
45°	4675.4	2611.1	1395.4	1146.4	1064.8	975.0	938.3	909.8	836.4	848.6	856.8
47.5°	5010.0	2602.9	1272.9	1056.6	991.4	913.9	893.5	832.3	803.7	811.9	820.0
50°	5471.0	2615.1	1162.7	983.3	938.3	873.1	848.6	815.9	803.7	807.8	803.7
52.5°	6111.5	2574.3	1056.6	938.3	897.6	811.9	811.9	807.8	811.9	807.8	807.8
55°	6462.4	2484.5	979.2	913.9	869.0	783.3	799.7	807.8	815.9	811.9	811.9
57.5°	6960.2	2423.4	918.0	897.6	852.7	775.2	791.5	807.8	811.9	807.8	807.8
60°	7547.6	2382.6	877.2	901.6	840.4	775.2	795.5	807.8	803.7	799.7	799.7
62.5°	8229.0	2366.3	848.6	913.9	828.1	779.2	795.5	807.8	791.5	787.4	787.4
65°	8486.0	2219.4	811.9	922.0	836.4	779.2	791.5	795.5	775.2	771.1	767.0
67.5°	8090.3	1966.4	758.8	905.8	860.9	779.2	779.2	775.2	750.7	746.6	738.5
70°	7205.0	1631.9	677.3	852.7	877.2	783.3	762.9	742.5	718.1	718.1	701.8
72.5°	5899.5	1285.1	571.2	758.8	864.9	795.5	730.3	701.8	673.1	673.1	656.8
75°	4251.2	958.7	456.9	632.4	811.9	791.5	689.5	652.9	620.1	616.0	595.7
77.5°	2423.4	673.1	371.3	493.7	722.1	771.1	652.9	595.7	559.0	546.8	534.5
80°	1244.4	452.9	301.9	387.6	599.8	714.0	624.2	530.4	489.6	469.2	448.7
82.5°	591.5	301.9	232.5	285.6	452.9	624.2	587.5	456.9	412.0	387.6	363.1
85°	265.2	179.5	155.0	183.5	322.4	485.5	518.1	375.3	322.4	403.9	297.8
87.5°	85.7	81.6	81.6	85.7	155.0	212.2	379.4	277.4	257.0	212.2	179.5
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)