

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: P318108

Luminaire Tested: **GAN-SA4A-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18448 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

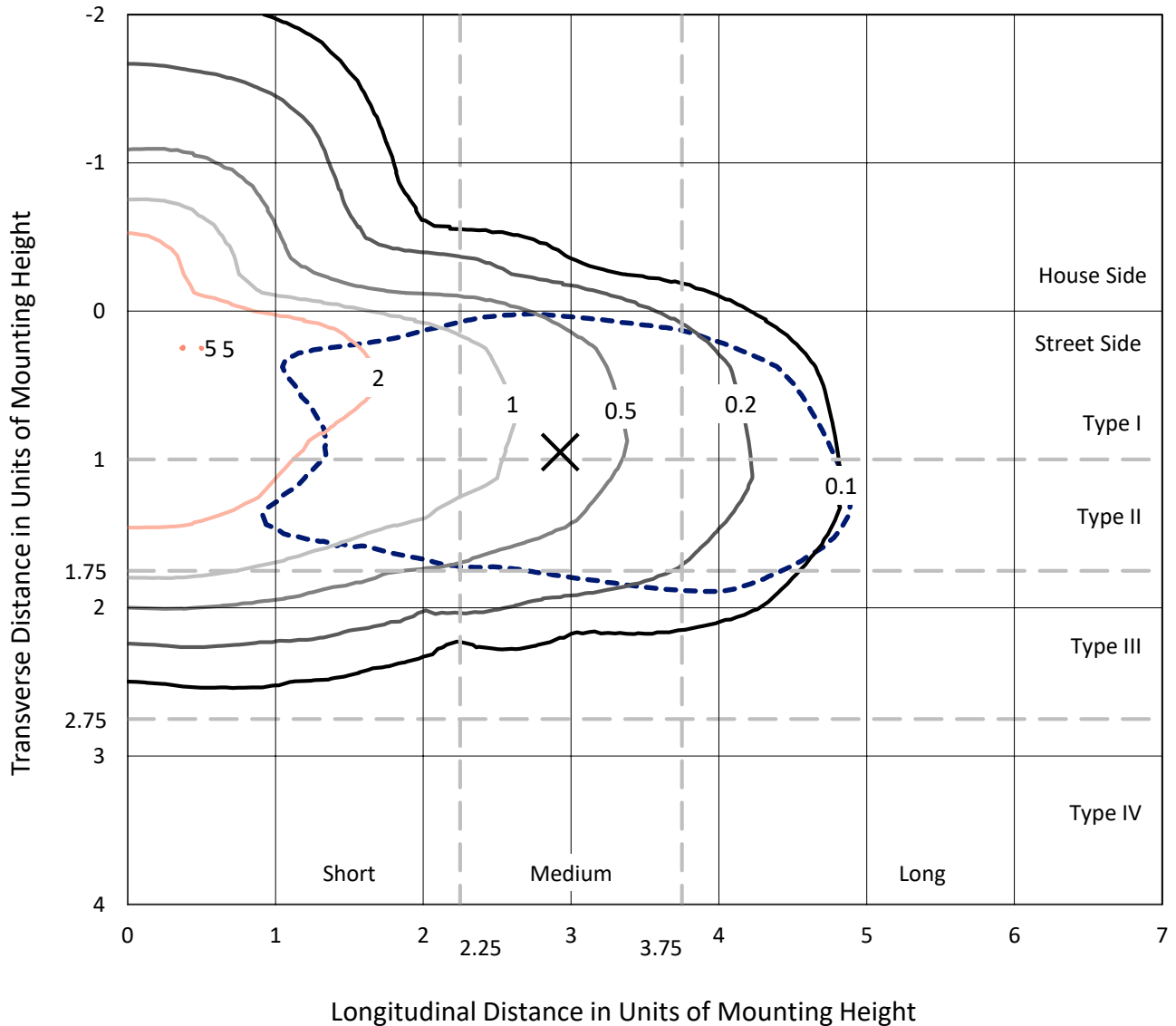
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

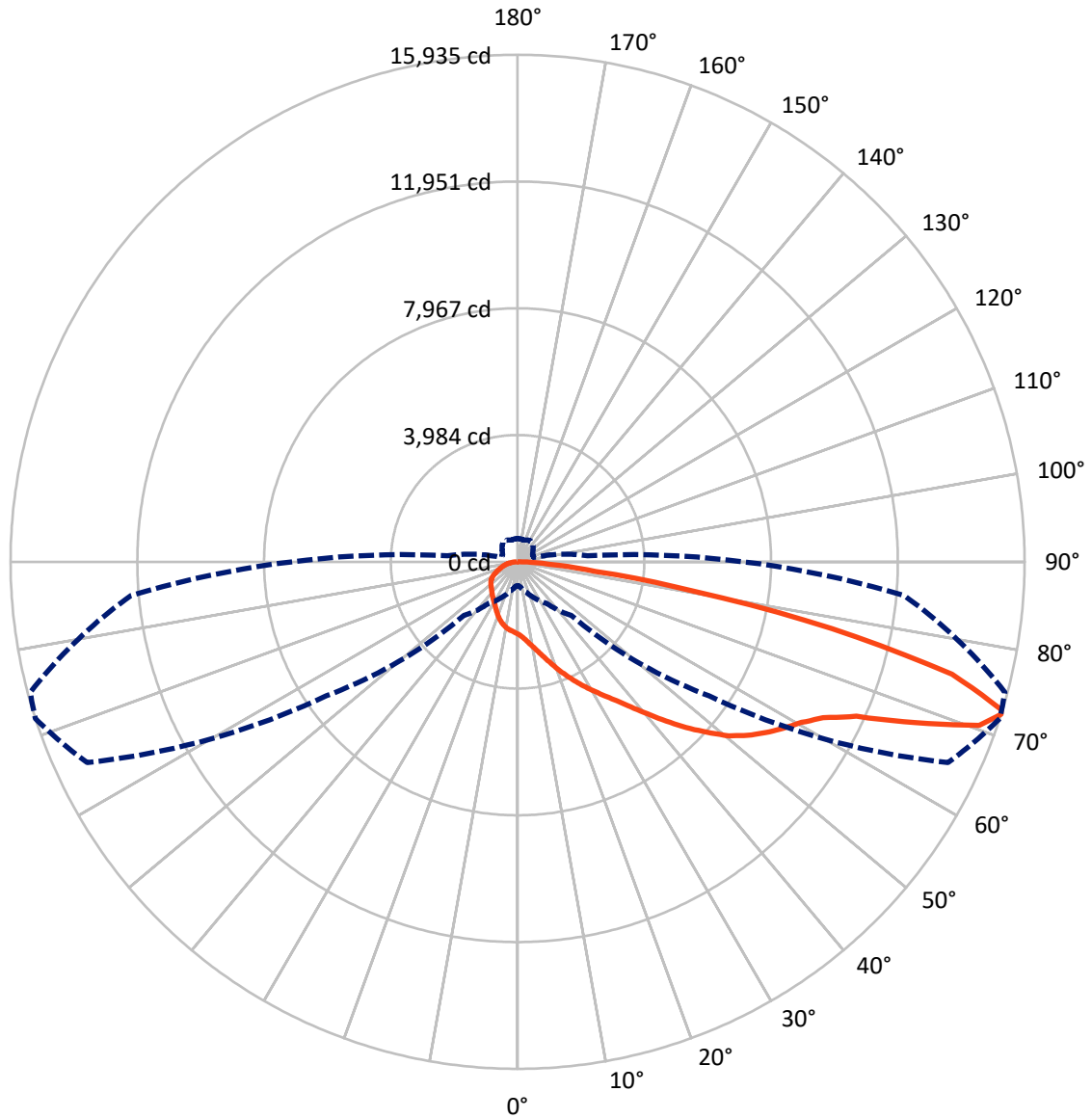
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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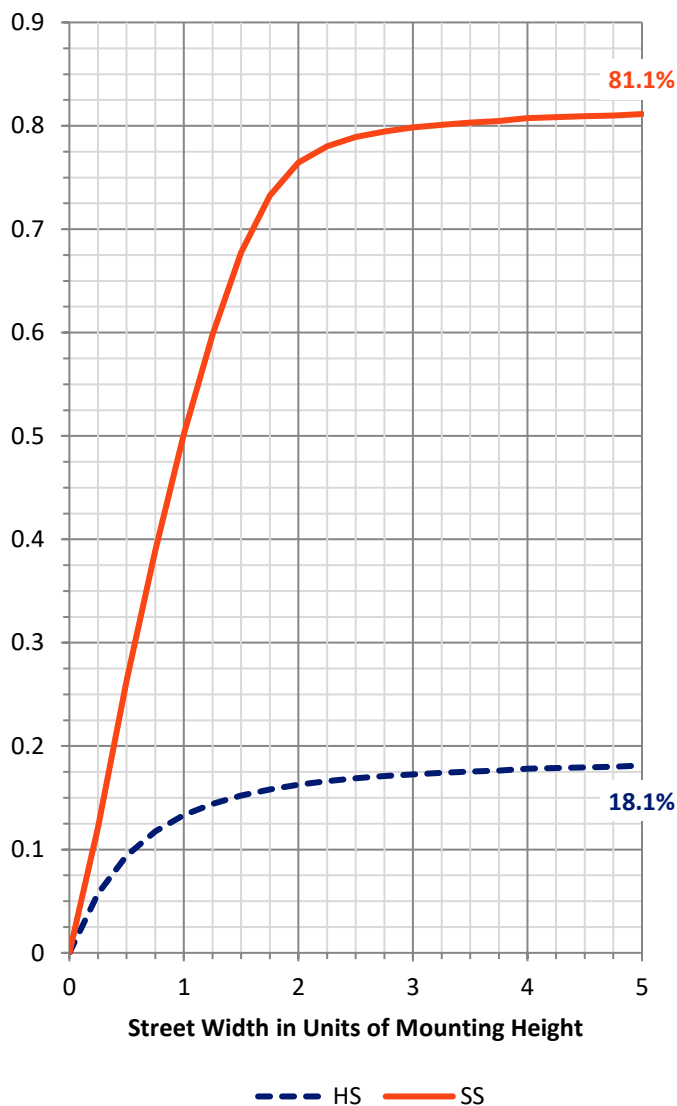
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3422.2	0.0	3422.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15025.8	0.0	15025.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	18448.0	0.0	18448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.2
10°-20°	734.9	4.0
20°-30°	1287.8	7.0
30°-40°	1909.4	10.4
40°-50°	2792.6	15.1
50°-60°	3842.6	20.8
60°-70°	4278.0	23.2
70°-80°	2898.8	15.7
80°-90°	476.4	2.6
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°	18448.0	100.0
0°-180°	18448.0	100.0

Coefficient of Utilization



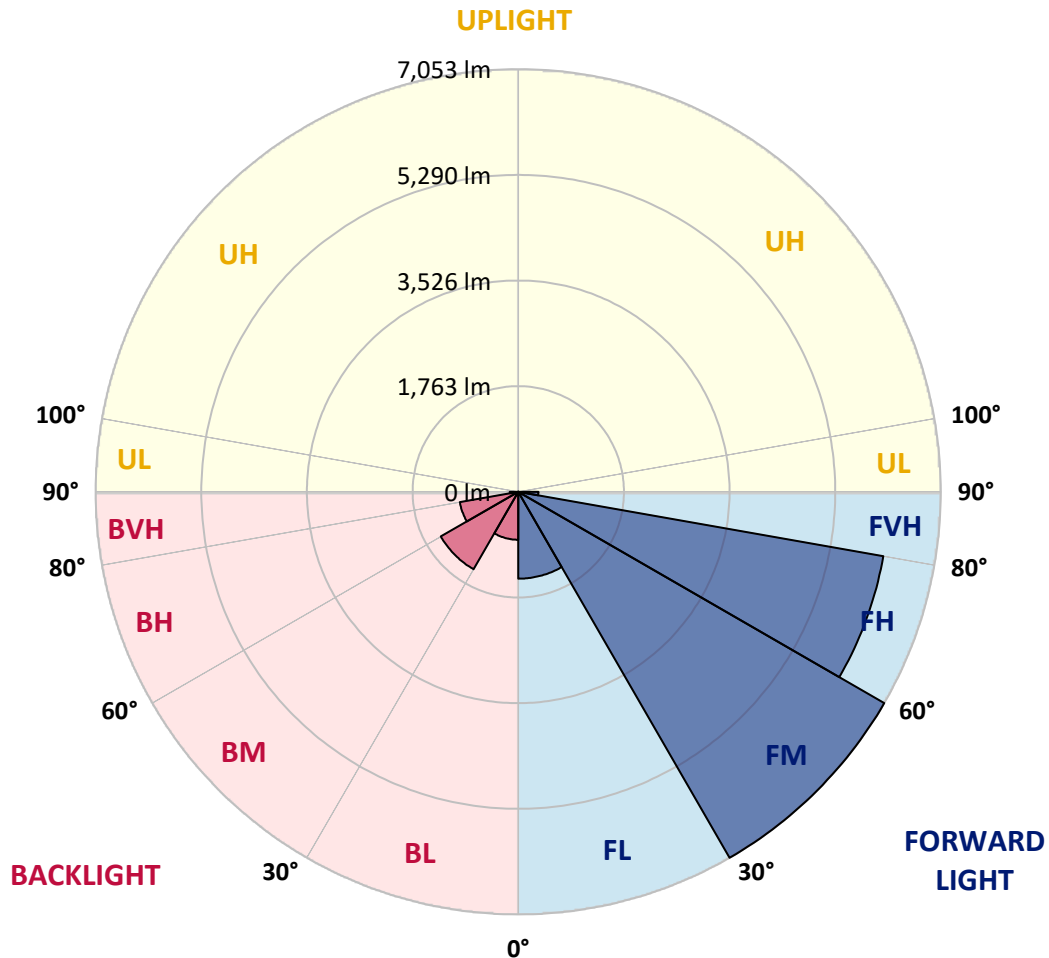
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.1	7.9			
FM (30°-60°)	7052.9	38.2			
FH (60°-80°)	6186.7	33.5			G3/7500
FVH (80°-90°)	336.1	1.8			G3/500
BL (0°-30°)	800.0	4.3	B2/1000		
BM (30°-60°)	1491.8	8.1	B2/2500		
BH (60°-80°)	990.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	140.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6
2.5°	2507.2	2503.3	2490.0	2490.0	2464.6	2443.0	2402.3	2375.0	2342.6	2331.2	2293.1
5°	2749.8	2751.1	2734.6	2723.1	2685.6	2639.9	2570.7	2507.8	2444.9	2419.5	2341.4
7.5°	2953.7	2951.2	2946.7	2937.2	2902.2	2855.2	2761.9	2668.5	2575.8	2537.6	2403.0
10°	3084.6	3090.3	3094.1	3098.5	3083.9	3050.3	2962.0	2848.3	2726.9	2674.8	2476.7
12.5°	3150.6	3160.8	3178.6	3209.1	3233.2	3229.4	3165.2	3044.5	2900.3	2834.9	2568.8
15°	3189.4	3202.7	3230.6	3285.3	3353.2	3392.0	3374.8	3265.6	3104.9	3024.2	2681.2
17.5°	3213.5	3224.3	3267.5	3340.5	3441.5	3544.4	3589.5	3498.1	3336.1	3244.0	2810.1
20°	3230.0	3238.3	3292.3	3378.0	3508.9	3672.8	3798.5	3775.7	3590.8	3471.4	2944.8
22.5°	3266.9	3273.8	3325.3	3411.7	3556.5	3768.0	3999.9	4034.2	3859.5	3724.2	3089.0
25°	3369.8	3369.8	3413.0	3473.3	3609.2	3850.6	4170.1	4321.9	4133.9	3976.4	3222.4
27.5°	3566.0	3564.1	3580.0	3601.0	3703.9	3934.5	4321.9	4576.0	4418.5	4246.3	3352.0
30°	3798.5	3811.2	3813.1	3803.0	3851.2	4039.3	4462.3	4844.1	4705.0	4519.5	3484.7
32.5°	4097.7	4106.0	4096.4	4062.8	4055.8	4187.9	4600.2	5124.8	5014.9	4804.7	3606.1
35°	4477.6	4461.7	4431.8	4363.2	4297.8	4386.7	4757.7	5405.6	5363.0	5149.6	3773.1
37.5°	4884.7	4885.4	4848.5	4692.9	4602.7	4640.8	4974.9	5723.8	5784.2	5559.9	3987.2
40°	5211.2	5228.4	5251.2	5046.7	4929.8	4982.5	5251.2	6092.9	6282.2	6046.5	4266.0
42.5°	5439.3	5458.9	5523.7	5395.4	5274.1	5371.9	5576.5	6486.7	6841.2	6608.0	4592.5
45°	5680.6	5691.4	5737.2	5681.9	5604.4	5824.8	5943.0	6894.5	7432.5	7206.4	4957.8
47.5°	5934.7	5946.1	5993.2	5956.3	5915.7	6247.9	6325.4	7278.8	7999.1	7863.8	5347.8
50°	6248.5	6256.1	6300.6	6233.9	6246.6	6566.7	6667.1	7631.3	8593.0	8454.6	5739.1
52.5°	6676.6	6678.5	6740.2	6679.8	6620.1	6800.5	6961.2	7963.6	9058.6	8993.2	6130.4
55°	7012.0	7032.3	7234.3	7221.6	7187.3	7012.7	7207.0	8279.9	9474.1	9505.2	6545.8
57.5°	6798.0	6877.4	7286.4	7574.8	7855.6	7540.5	7539.2	8636.2	9860.3	10007.6	7002.5
60°	5953.8	6061.8	6664.6	7304.2	8182.7	8459.0	8229.1	9071.4	10250.3	10505.6	7574.8
62.5°	4252.1	4429.9	5246.8	6268.2	7734.2	9067.5	9632.9	9761.8	10780.7	11082.4	8318.6
65°	2149.5	2284.2	2968.9	4199.3	6179.3	8669.9	11158.6	11273.6	11702.4	11970.4	9463.9
67.5°	1306.0	1356.8	1690.9	2335.6	3788.4	6753.5	11656.6	13793.5	13486.0	13628.3	11097.0
70°	962.3	999.8	1208.2	1551.2	2178.8	3963.0	10128.3	15591.7	15389.7	15373.9	12303.9
72°	749.5	776.9	961.1	1253.3	1593.1	2377.6	7341.1	14927.9	15934.7	15854.7	12193.4
72.5°	710.8	734.9	902.6	1179.6	1505.4	2155.2	6600.4	14480.1	15895.4	15859.1	12050.5
75°	559.6	576.8	668.2	912.2	1178.3	1222.8	3616.9	11221.5	14100.9	14687.2	10838.5
77.5°	463.1	465.6	513.9	663.8	918.5	864.5	1776.7	7785.7	10097.2	10741.9	7677.7
80°	377.3	380.5	403.4	465.6	694.9	639.7	843.6	4476.9	5653.3	5660.3	3651.2
82.5°	300.5	301.1	326.5	340.5	499.3	457.3	483.4	2101.9	2470.3	2376.3	1312.3
85°	211.5	207.1	318.9	279.5	326.5	293.5	266.8	832.1	1021.4	976.9	411.0
87.5°	70.5	73.0	141.7	181.0	190.6	166.4	118.8	318.9	385.6	382.4	130.2
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°	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6	2269.6
2.5°	2281.0	2260.7	2230.8	2197.8	2171.8	2145.1	2125.4	2115.2	2103.8	2094.3	2105.7
5°	2305.2	2267.0	2203.5	2141.3	2095.5	2054.9	2025.7	2010.4	1996.4	1986.9	1988.2
7.5°	2344.5	2282.9	2176.2	2085.4	2021.9	1978.0	1948.2	1938.0	1929.1	1926.6	1929.8
10°	2386.5	2295.6	2140.0	2019.3	1946.9	1910.7	1897.4	1904.3	1910.7	1916.4	1922.8
12.5°	2434.1	2307.1	2087.3	1941.8	1880.2	1866.2	1879.6	1910.1	1932.3	1945.6	1953.9
15°	2496.4	2317.2	2026.3	1864.3	1823.0	1838.9	1884.0	1936.7	1975.5	2000.3	2004.1
17.5°	2553.5	2316.6	1948.2	1786.2	1776.7	1823.0	1891.0	1965.3	2017.4	2052.3	2059.3
20°	2612.6	2299.4	1857.3	1710.0	1729.7	1805.9	1894.2	1983.7	2046.6	2087.3	2096.8
22.5°	2667.9	2269.6	1757.6	1640.7	1690.3	1783.0	1882.1	1972.9	2035.8	2068.9	2079.0
25°	2705.3	2217.5	1656.6	1582.3	1655.3	1755.1	1842.7	1915.8	1962.8	1979.3	1981.8
27.5°	2724.4	2149.5	1561.3	1531.5	1619.1	1709.3	1769.7	1805.9	1819.2	1818.0	1815.4
30°	2726.9	2060.0	1479.4	1490.2	1577.2	1642.0	1670.6	1663.6	1646.4	1617.2	1619.8
32.5°	2718.7	1959.0	1410.8	1450.8	1523.9	1560.1	1561.3	1527.7	1481.9	1435.6	1422.9
35°	2721.2	1859.9	1350.4	1406.3	1459.1	1474.9	1460.3	1410.8	1348.5	1288.8	1276.1
37.5°	2749.2	1773.5	1298.4	1354.9	1387.3	1391.1	1370.1	1318.0	1272.3	1213.9	1208.8
40°	2815.9	1711.9	1248.8	1297.1	1315.5	1317.4	1287.6	1250.7	1254.5	1223.4	1222.8
42.5°	2935.9	1685.2	1205.0	1236.7	1248.2	1252.0	1229.1	1205.6	1238.6	1218.3	1211.3
45°	3090.9	1691.5	1168.1	1177.7	1198.6	1216.4	1202.4	1173.9	1186.6	1098.3	1069.0
47.5°	3270.0	1732.2	1138.9	1126.9	1163.1	1196.7	1175.1	1131.9	1086.8	999.2	982.7
50°	3479.6	1795.1	1112.2	1076.7	1124.3	1170.0	1148.4	1086.8	1018.9	976.3	970.6
52.5°	3698.2	1871.9	1085.6	1021.4	1075.4	1149.7	1138.9	1076.7	992.8	950.9	943.3
55°	3945.9	1949.4	1051.9	957.3	1022.7	1140.2	1134.5	1039.8	973.1	949.6	943.9
57.5°	4254.0	2037.7	1007.4	890.6	973.1	1105.9	1088.1	1017.6	952.8	935.0	933.1
60°	4655.4	2168.0	943.3	819.4	912.8	1053.2	1049.4	985.2	920.4	907.7	905.2
62.5°	5257.6	2383.3	855.0	748.3	845.5	963.6	998.5	941.4	886.1	885.5	886.7
65°	6191.3	2707.2	759.1	686.0	777.5	888.0	939.5	896.3	851.2	863.9	865.8
67.5°	7273.7	2975.9	665.1	625.0	708.3	816.2	886.1	851.2	804.8	837.8	838.5
70°	7633.9	2735.8	582.5	564.7	636.5	747.0	828.3	801.6	754.6	787.7	784.5
72°	7104.1	2208.6	529.1	519.0	582.5	689.8	776.9	755.3	708.9	731.1	722.9
72.5°	6937.1	2105.7	515.8	507.5	567.9	675.2	763.5	743.8	697.5	716.5	708.9
75°	6188.2	1828.8	443.4	445.3	495.5	604.1	688.6	682.2	634.6	636.5	633.9
77.5°	4488.4	1340.9	373.5	386.2	421.8	531.0	613.0	609.2	557.1	547.5	545.6
80°	2082.8	684.1	304.3	310.0	346.8	444.0	522.8	517.7	475.8	463.7	456.7
82.5°	713.3	325.2	228.7	232.5	268.7	357.6	453.5	450.4	415.4	391.9	377.3
85°	254.7	162.0	160.1	156.3	191.8	281.4	395.1	377.9	326.5	278.2	276.9
87.5°	82.6	69.2	82.6	81.9	111.8	190.6	287.1	244.6	236.9	196.9	193.1
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)