

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: P318056

Luminaire Tested: **GAN-SA2D-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318056
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-SA2D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14189 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

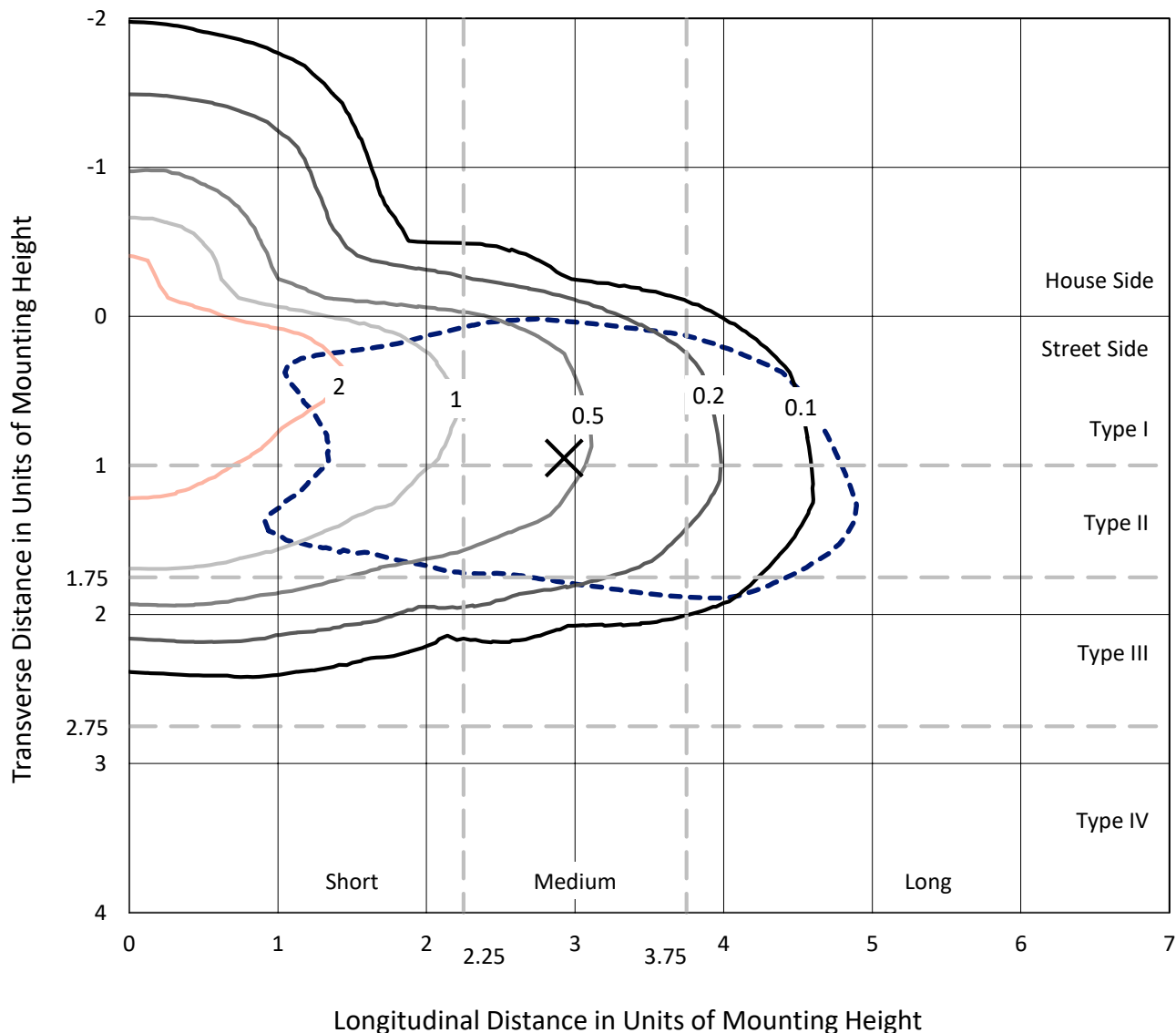
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

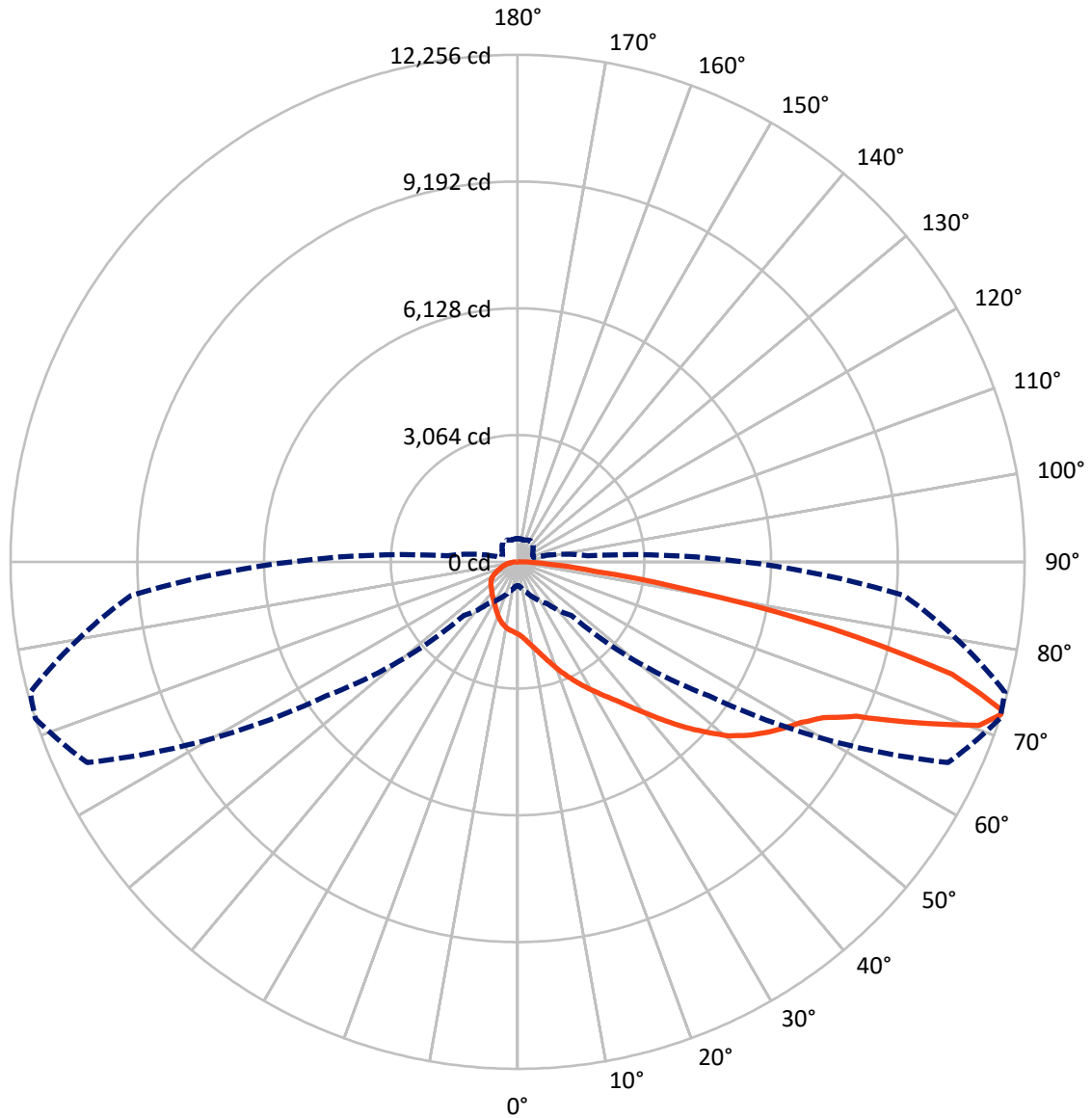
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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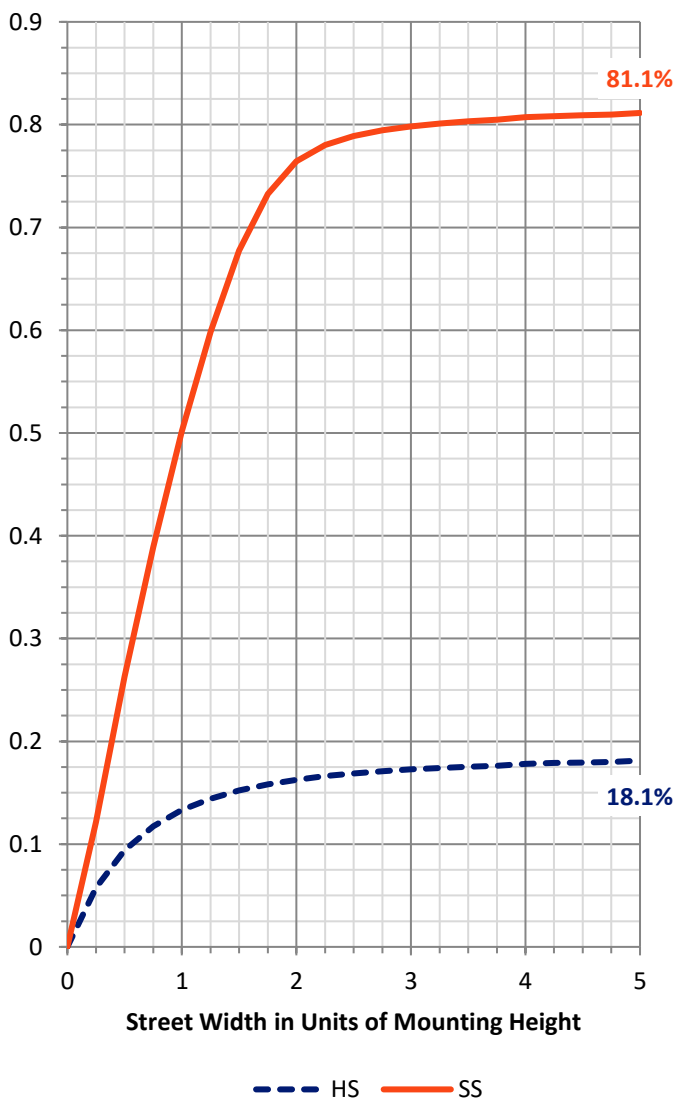
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.2	0.0	2632.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11556.8	0.0	11556.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	14189.0	0.0	14189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	1.2
10°-20°	565.2	4.0
20°-30°	990.5	7.0
30°-40°	1468.6	10.4
40°-50°	2147.9	15.1
50°-60°	2955.5	20.8
60°-70°	3290.4	23.2
70°-80°	2229.5	15.7
80°-90°	366.4	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°	14189.0	100.0
0°-180°	14189.0	100.0

Coefficient of Utilization

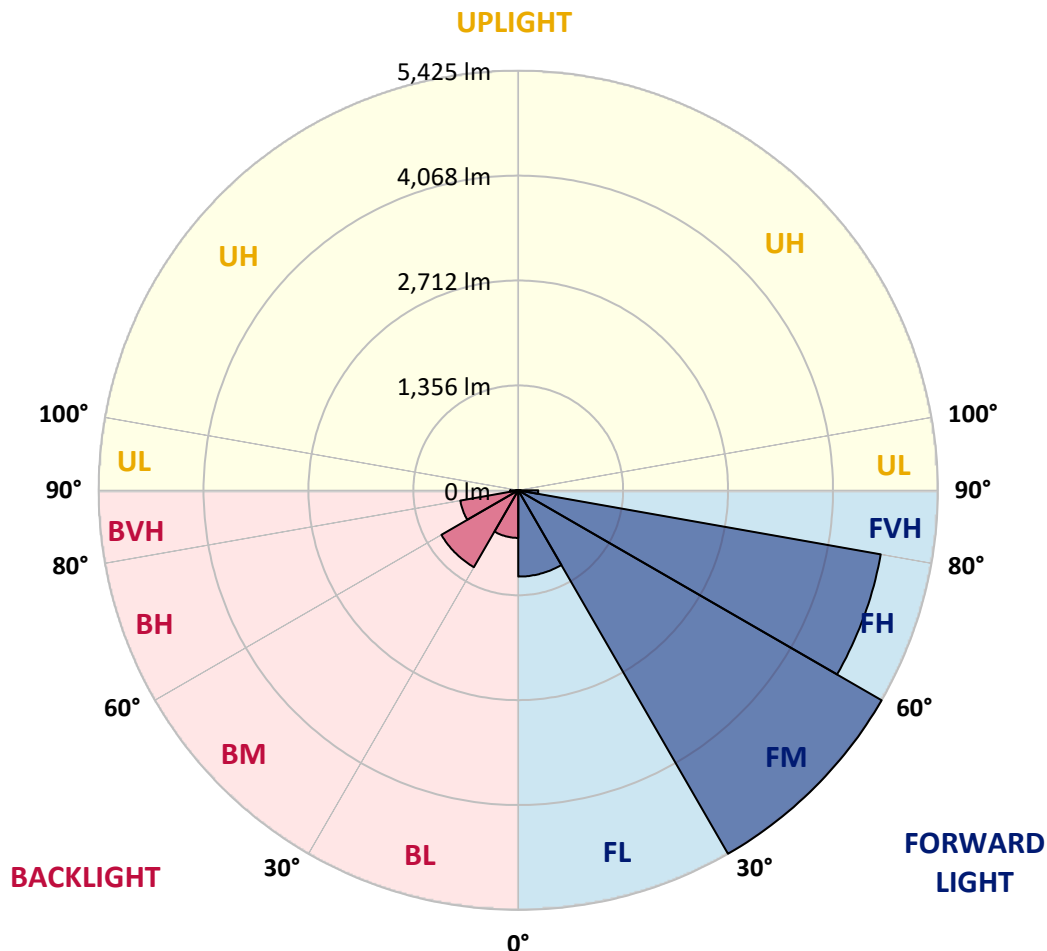


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.3	7.9			
FM (30°-60°)	5424.6	38.2			
FH (60°-80°)	4758.4	33.5			G2/5000
FVH (80°-90°)	258.5	1.8			G3/500
BL (0°-30°)	615.3	4.3	B2/1000		
BM (30°-60°)	1147.4	8.1	B2/2500		
BH (60°-80°)	761.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	108.0	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°	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6
2.5°	1928.3	1925.4	1915.1	1915.1	1895.6	1879.0	1847.7	1826.7	1801.8	1793.0	1763.7
5°	2115.0	2115.9	2103.2	2094.4	2065.6	2030.4	1977.2	1928.8	1880.5	1860.9	1800.8
7.5°	2271.8	2269.8	2266.4	2259.1	2232.2	2196.1	2124.2	2052.4	1981.1	1951.8	1848.2
10°	2372.4	2376.8	2379.8	2383.2	2371.9	2346.1	2278.1	2190.7	2097.4	2057.3	1904.9
12.5°	2423.2	2431.1	2444.7	2468.2	2486.8	2483.8	2434.5	2341.7	2230.8	2180.4	1975.7
15°	2453.0	2463.3	2484.8	2526.8	2579.1	2608.9	2595.7	2511.7	2388.1	2326.0	2062.2
17.5°	2471.6	2479.9	2513.1	2569.3	2647.0	2726.2	2760.8	2690.5	2565.9	2495.1	2161.4
20°	2484.3	2490.7	2532.2	2598.2	2698.8	2824.8	2921.6	2904.0	2761.8	2670.0	2265.0
22.5°	2512.7	2518.0	2557.6	2624.0	2735.4	2898.1	3076.4	3102.8	2968.5	2864.4	2375.9
25°	2591.8	2591.8	2625.0	2671.4	2776.0	2961.6	3207.4	3324.1	3179.5	3058.4	2478.5
27.5°	2742.8	2741.3	2753.5	2769.6	2848.8	3026.1	3324.1	3519.6	3398.4	3266.0	2578.1
30°	2921.6	2931.3	2932.8	2925.0	2962.1	3106.7	3432.1	3725.7	3618.7	3476.1	2680.2
32.5°	3151.7	3158.0	3150.7	3124.8	3119.4	3221.1	3538.1	3941.7	3857.2	3695.5	2773.5
35°	3443.8	3431.6	3408.7	3355.9	3305.6	3374.0	3659.3	4157.6	4124.9	3960.7	2902.0
37.5°	3757.0	3757.5	3729.2	3609.5	3540.1	3569.4	3826.4	4402.4	4448.8	4276.3	3066.7
40°	4008.1	4021.3	4038.9	3881.6	3791.7	3832.2	4038.9	4686.2	4831.8	4650.6	3281.2
42.5°	4183.5	4198.7	4248.5	4149.8	4056.5	4131.7	4289.0	4989.2	5261.8	5082.5	3532.3
45°	4369.2	4377.5	4412.7	4370.1	4310.5	4480.1	4570.9	5302.8	5716.6	5542.7	3813.2
47.5°	4564.6	4573.4	4609.5	4581.2	4549.9	4805.5	4865.1	5598.4	6152.4	6048.3	4113.2
50°	4805.9	4811.8	4846.0	4794.7	4804.5	5050.7	5127.9	5869.5	6609.2	6502.7	4414.1
52.5°	5135.2	5136.7	5184.1	5137.7	5091.7	5230.5	5354.1	6125.0	6967.3	6917.0	4715.1
55°	5393.2	5408.8	5564.2	5554.4	5528.0	5393.7	5543.2	6368.4	7286.8	7310.8	5034.6
57.5°	5228.5	5289.6	5604.2	5826.1	6042.0	5799.7	5798.7	6642.4	7583.9	7697.2	5385.9
60°	4579.3	4662.3	5125.9	5617.9	6293.6	6506.1	6329.3	6977.1	7883.9	8080.3	5826.1
62.5°	3270.4	3407.2	4035.5	4821.1	5948.7	6974.2	7409.0	7508.2	8291.8	8523.9	6398.2
65°	1653.3	1756.9	2283.5	3229.9	4752.7	6668.3	8582.5	8670.9	9000.7	9206.9	7279.0
67.5°	1004.5	1043.6	1300.5	1796.4	2913.8	5194.3	8965.5	10609.0	10372.6	10482.0	8535.1
70°	740.2	769.0	929.2	1193.1	1675.8	3048.1	7790.1	11992.1	11836.8	11824.6	9463.4
72°	576.5	597.5	739.2	963.9	1225.3	1828.7	5646.3	11481.6	12256.0	12194.4	9378.4
72.5°	546.7	565.3	694.2	907.3	1157.9	1657.7	5076.6	11137.2	12225.7	12197.8	9268.4
75°	430.4	443.6	514.0	701.6	906.3	940.5	2781.8	8630.9	10845.5	11296.4	8336.3
77.5°	356.2	358.1	395.2	510.5	706.5	664.9	1366.5	5988.3	7766.1	8262.0	5905.2
80°	290.2	292.6	310.2	358.1	534.5	492.0	648.8	3443.4	4348.2	4353.5	2808.2
82.5°	231.1	231.6	251.1	261.9	384.0	351.8	371.8	1616.6	1900.0	1827.7	1009.4
85°	162.7	159.3	245.3	215.0	251.1	225.7	205.2	640.0	785.6	751.4	316.1
87.5°	54.2	56.2	108.9	139.2	146.6	128.0	91.4	245.3	296.6	294.1	100.2
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°	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6	1745.6
2.5°	1754.4	1738.8	1715.8	1690.4	1670.4	1649.9	1634.7	1626.9	1618.1	1610.8	1619.6
5°	1773.0	1743.7	1694.8	1646.9	1611.8	1580.5	1558.0	1546.3	1535.5	1528.2	1529.2
7.5°	1803.3	1755.9	1673.8	1603.9	1555.1	1521.4	1498.4	1490.6	1483.8	1481.8	1484.2
10°	1835.5	1765.6	1646.0	1553.1	1497.4	1469.6	1459.3	1464.7	1469.6	1474.0	1478.9
12.5°	1872.2	1774.4	1605.4	1493.5	1446.1	1435.4	1445.6	1469.1	1486.2	1496.5	1502.8
15°	1920.0	1782.3	1558.5	1433.9	1402.2	1414.4	1449.1	1489.6	1519.4	1538.5	1541.4
17.5°	1964.0	1781.8	1498.4	1373.8	1366.5	1402.2	1454.4	1511.6	1551.7	1578.5	1583.9
20°	2009.4	1768.6	1428.5	1315.2	1330.3	1389.0	1456.9	1525.8	1574.1	1605.4	1612.7
22.5°	2051.9	1745.6	1351.8	1261.9	1300.1	1371.4	1447.6	1517.5	1565.8	1591.2	1599.0
25°	2080.8	1705.6	1274.2	1217.0	1273.2	1349.9	1417.3	1473.5	1509.6	1522.3	1524.3
27.5°	2095.4	1653.3	1200.9	1177.9	1245.3	1314.7	1361.1	1389.0	1399.2	1398.3	1396.3
30°	2097.4	1584.4	1137.9	1146.2	1213.1	1262.9	1284.9	1279.5	1266.3	1243.9	1245.8
32.5°	2091.0	1506.7	1085.1	1115.9	1172.1	1199.9	1200.9	1175.0	1139.8	1104.1	1094.4
35°	2093.0	1430.5	1038.7	1081.7	1122.2	1134.4	1123.2	1085.1	1037.2	991.3	981.5
37.5°	2114.5	1364.1	998.6	1042.1	1067.0	1069.9	1053.8	1013.8	978.6	933.6	929.7
40°	2165.8	1316.7	960.5	997.6	1011.8	1013.3	990.3	962.0	964.9	941.0	940.5
42.5°	2258.1	1296.1	926.8	951.2	960.0	962.9	945.4	927.3	952.7	937.1	931.7
45°	2377.3	1301.0	898.5	905.8	921.9	935.6	924.8	902.9	912.6	844.7	822.2
47.5°	2515.1	1332.3	876.0	866.7	894.5	920.4	903.8	870.6	835.9	768.5	755.8
50°	2676.3	1380.7	855.5	828.1	864.7	899.9	883.3	835.9	783.6	750.9	746.5
52.5°	2844.4	1439.8	834.9	785.6	827.1	884.3	876.0	828.1	763.6	731.4	725.5
55°	3034.9	1499.4	809.1	736.3	786.6	877.0	872.6	799.8	748.5	730.4	726.0
57.5°	3271.9	1567.3	774.9	685.0	748.5	850.6	836.9	782.7	732.8	719.2	717.7
60°	3580.6	1667.4	725.5	630.2	702.1	810.0	807.1	757.8	707.9	698.1	696.2
62.5°	4043.8	1833.1	657.6	575.5	650.3	741.1	768.0	724.0	681.5	681.0	682.0
65°	4762.0	2082.2	583.8	527.6	598.0	683.0	722.6	689.4	654.7	664.4	665.9
67.5°	5594.5	2288.9	511.5	480.7	544.7	627.8	681.5	654.7	619.0	644.4	644.9
70°	5871.5	2104.2	448.0	434.3	489.5	574.5	637.1	616.6	580.4	605.8	603.4
72°	5464.0	1698.7	407.0	399.2	448.0	530.6	597.5	580.9	545.2	562.3	556.0
72.5°	5335.5	1619.6	396.7	390.4	436.8	519.3	587.2	572.1	536.4	551.1	545.2
75°	4759.5	1406.6	341.0	342.5	381.1	464.6	529.6	524.7	488.1	489.5	487.6
77.5°	3452.1	1031.3	287.3	297.0	324.4	408.4	471.5	468.5	428.5	421.1	419.7
80°	1602.0	526.2	234.0	238.4	266.8	341.5	402.1	398.2	365.9	356.6	351.3
82.5°	548.7	250.1	175.9	178.8	206.7	275.1	348.8	346.4	319.5	301.4	290.2
85°	195.9	124.6	123.1	120.2	147.5	216.4	303.9	290.7	251.1	214.0	213.0
87.5°	63.5	53.3	63.5	63.0	86.0	146.6	220.8	188.1	182.2	151.5	148.5
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)