

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386375

Luminaire Tested: GAW-SA2A-730-U-T4FT

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-730-U-T4FT  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8910 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

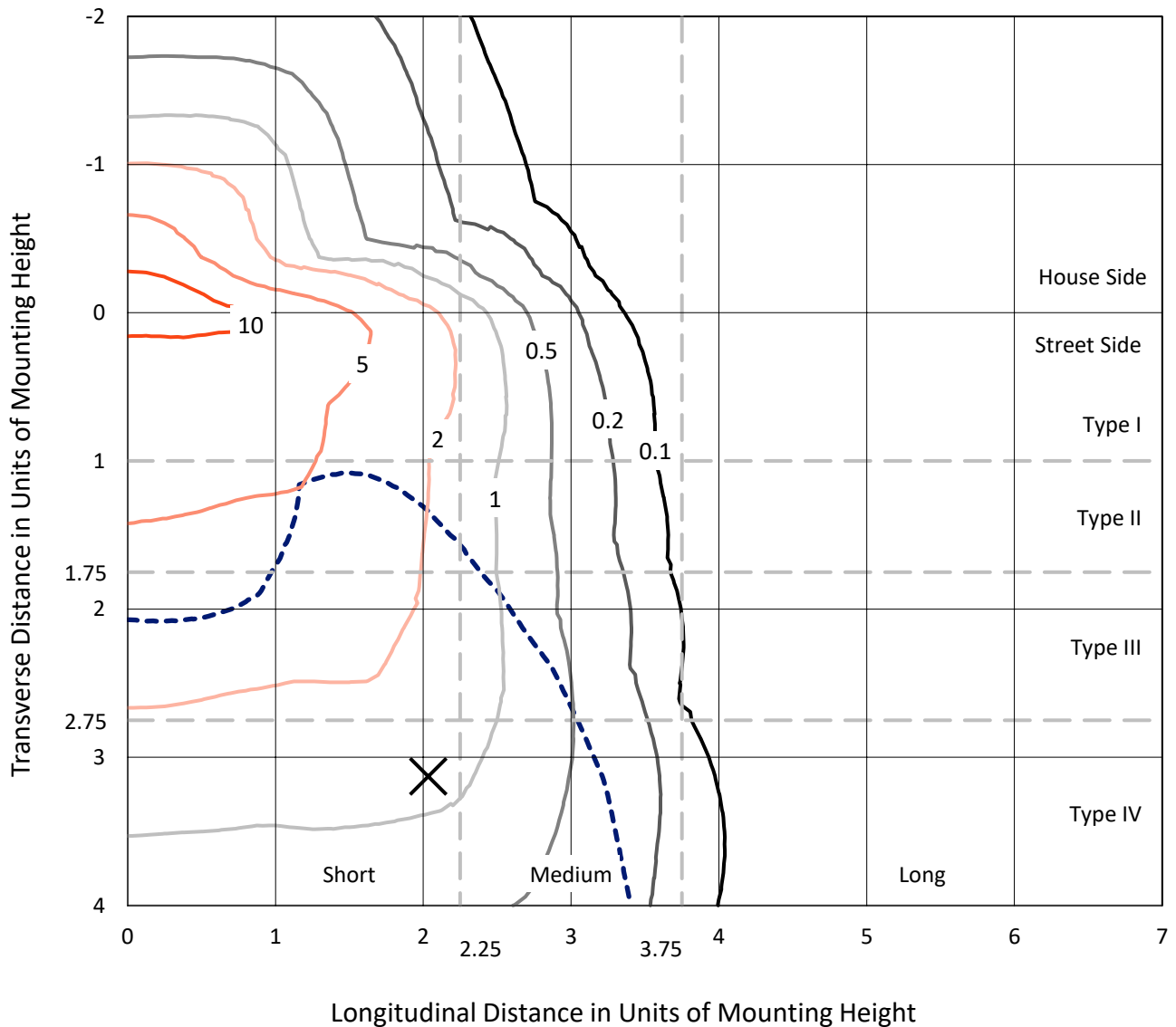
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

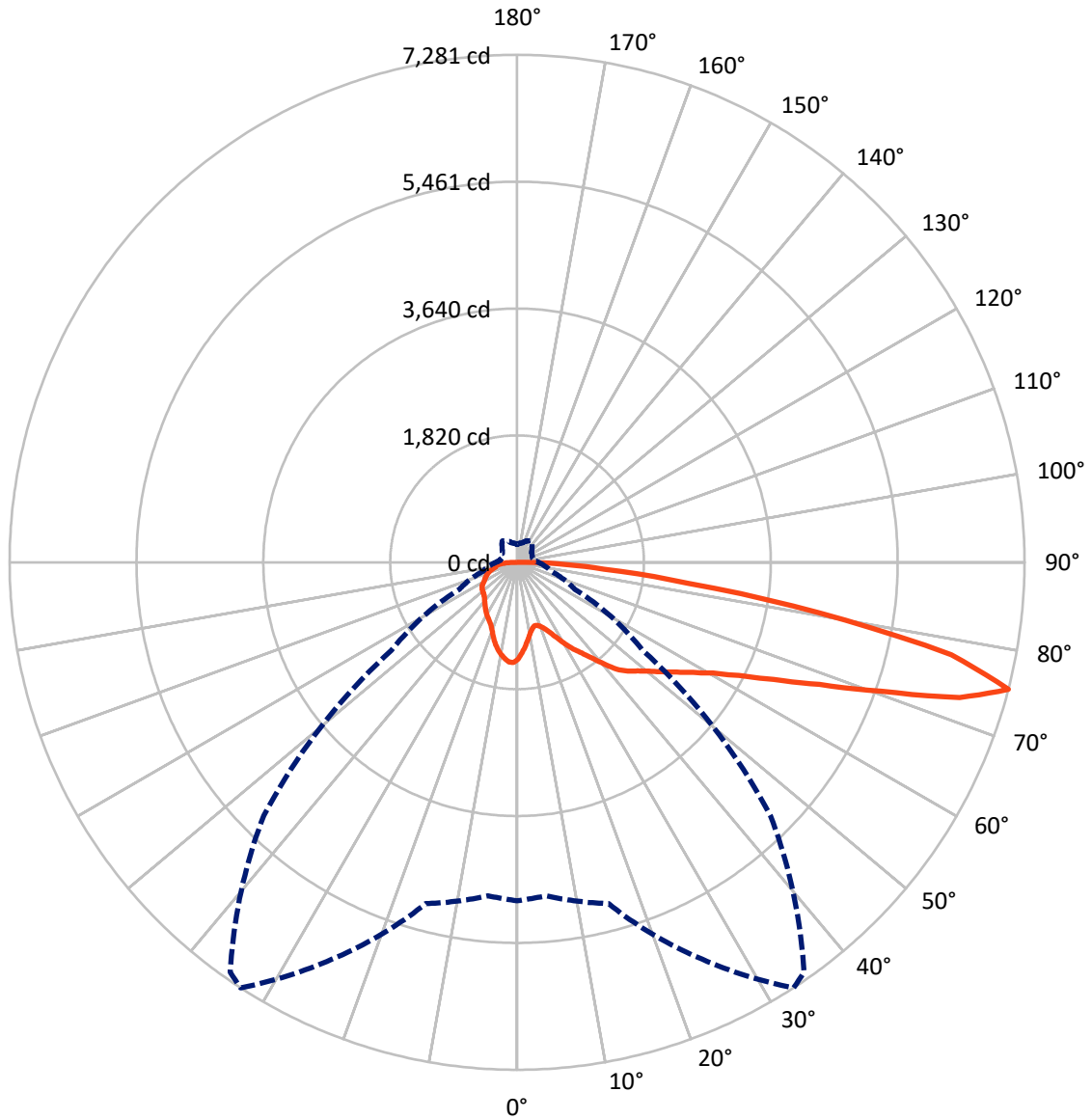
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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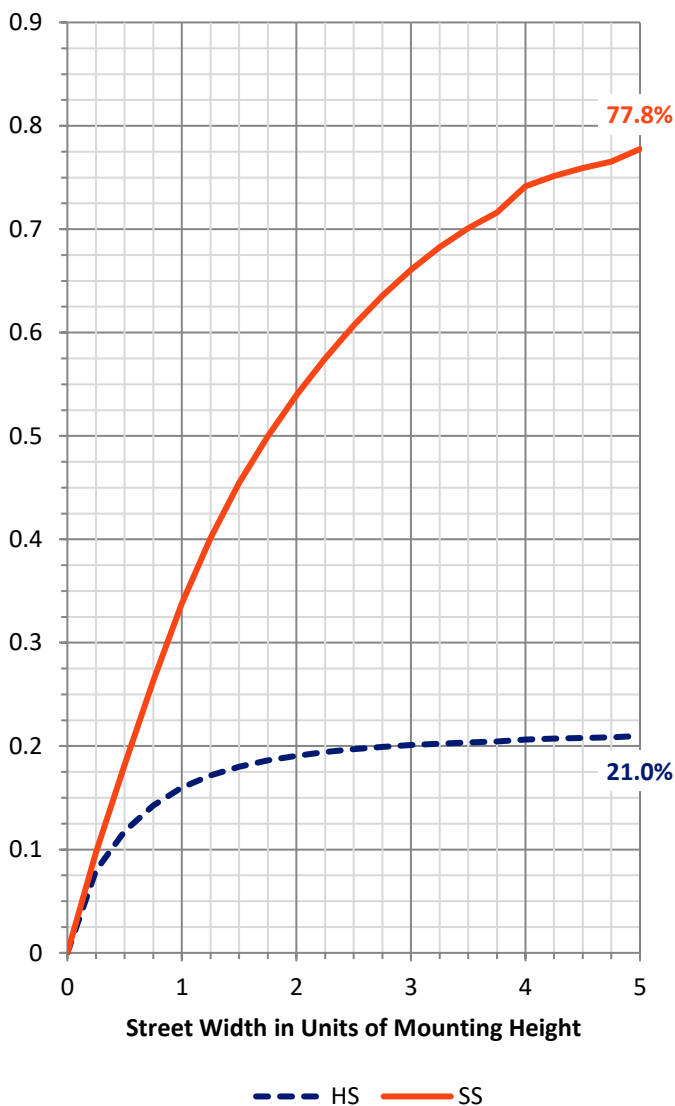
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1913.2	0.0	1913.2
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	6996.8	0.0	6996.8
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	8910.0	0.0	8910.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	1.4
10°-20°	341.1	3.8
20°-30°	557.1	6.3
30°-40°	829.7	9.3
40°-50°	1190.0	13.4
50°-60°	1633.6	18.3
60°-70°	2045.2	23.0
70°-80°	1850.2	20.8
80°-90°	337.0	3.8
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°	8910.0	100.0
0°-180°	8910.0	100.0

**Coefficient of Utilization**



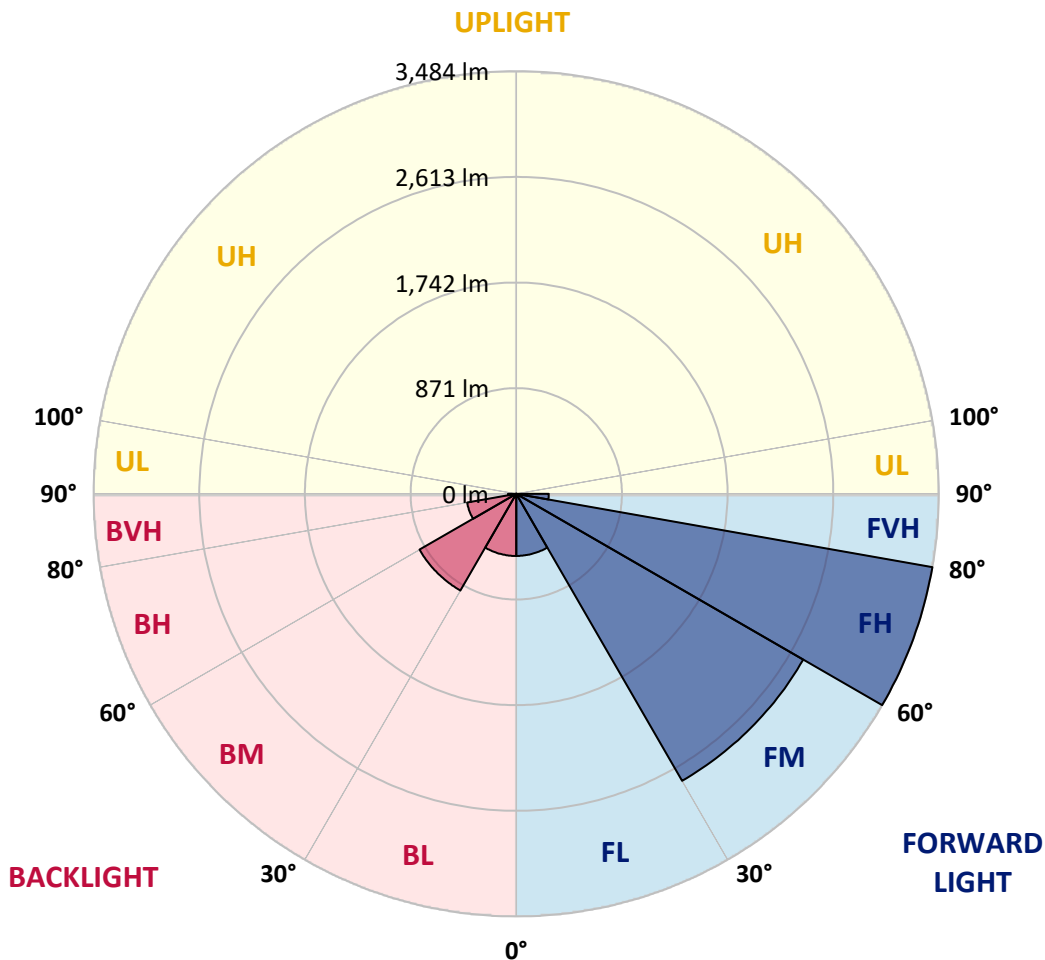
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.7	5.7			
FM (30°-60°)	2732.5	30.7			
FH (60°-80°)	3484.1	39.1			G2/5000
FVH (80°-90°)	268.4	3.0			G3/500
BL (0°-30°)	512.4	5.8	B2/1000		
BM (30°-60°)	920.8	10.3	B1/1000		
BH (60°-80°)	411.4	4.6	B1/500		G1/500
BVH (80°-90°)	68.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7
2.5°	1293.3	1288.3	1297.6	1298.8	1306.8	1309.9	1321.0	1338.2	1352.4	1368.7	1383.4
5°	1176.0	1172.6	1185.6	1194.8	1212.3	1219.7	1245.9	1282.5	1315.1	1352.1	1385.6
7.5°	1064.6	1062.7	1077.2	1098.1	1118.5	1128.6	1173.9	1227.1	1281.6	1341.3	1392.7
10°	970.7	970.1	984.0	1004.6	1034.4	1045.8	1104.3	1174.5	1250.8	1333.0	1404.7
12.5°	918.1	920.2	926.7	943.9	971.6	983.0	1048.0	1130.5	1224.9	1330.2	1422.2
15°	931.0	934.4	923.3	922.7	942.4	951.3	1012.3	1099.1	1206.5	1334.8	1447.8
17.5°	986.1	986.7	957.5	939.0	951.0	955.6	1001.2	1081.2	1195.7	1345.3	1479.8
20°	1063.7	1062.1	1010.4	979.6	986.1	987.3	1016.9	1081.5	1194.8	1363.4	1521.3
22.5°	1166.5	1155.1	1085.5	1043.7	1042.1	1040.3	1057.2	1104.3	1208.3	1393.0	1570.9
25°	1300.7	1289.9	1194.2	1136.9	1124.6	1120.0	1122.5	1152.9	1235.1	1424.7	1626.3
27.5°	1449.9	1431.2	1338.8	1257.9	1232.3	1225.9	1211.1	1221.6	1264.3	1455.2	1692.1
30°	1574.9	1564.7	1484.1	1388.1	1357.9	1348.7	1309.9	1298.5	1306.5	1496.7	1775.2
32.5°	1644.8	1638.0	1589.0	1511.5	1483.5	1470.6	1415.8	1393.0	1374.2	1562.3	1887.9
35°	1729.4	1725.1	1695.5	1639.2	1597.7	1584.1	1541.6	1517.9	1469.6	1652.4	2033.5
37.5°	1837.1	1832.5	1833.1	1787.6	1738.0	1725.4	1697.4	1672.5	1593.4	1770.9	2191.7
40°	1959.0	1950.1	1946.7	1944.5	1913.1	1906.1	1891.3	1857.4	1748.5	1912.5	2347.7
42.5°	2142.4	2110.7	2043.0	2068.6	2099.6	2095.9	2108.0	2059.3	1920.8	2079.9	2500.1
45°	2319.4	2267.4	2150.4	2156.0	2224.0	2244.6	2334.5	2300.0	2107.6	2263.4	2657.6
47.5°	2400.0	2360.6	2261.2	2261.5	2328.9	2371.7	2568.7	2544.1	2304.0	2471.7	2850.0
50°	2490.2	2450.8	2361.6	2395.1	2453.9	2499.4	2794.9	2782.3	2490.8	2699.8	3080.5
52.5°	2588.7	2521.9	2465.3	2525.3	2607.8	2660.7	3021.4	2987.0	2662.3	2929.4	3345.5
55°	2589.9	2571.8	2614.9	2658.9	2782.3	2847.2	3258.7	3167.6	2802.0	3155.0	3561.3
57.5°	2737.4	2707.8	2799.2	2819.5	2980.8	3054.1	3494.8	3324.9	2944.2	3328.0	3677.6
60°	2932.5	2907.2	2982.0	3035.6	3226.4	3324.3	3746.9	3486.5	3055.9	3458.5	3672.1
62.5°	3269.5	3240.9	3239.9	3315.0	3572.0	3685.9	4029.7	3645.0	3100.2	3484.3	3515.4
65°	3762.9	3717.3	3631.4	3667.1	4049.4	4163.0	4345.8	3759.8	3041.7	3345.8	3111.9
67.5°	4243.0	4241.5	4135.9	4209.1	4679.7	4770.8	4705.9	3771.2	2859.2	2863.5	2396.0
70°	4721.6	4727.7	4709.9	4964.7	5531.3	5626.1	5089.4	3618.2	2449.0	2067.9	1435.5
72.5°	5100.8	5099.2	5189.1	5846.2	6636.6	6615.3	5412.5	3154.7	1758.3	1116.3	686.0
75°	4855.2	4801.6	5069.4	6282.6	7280.7	7177.0	5137.7	2200.6	912.6	508.1	369.3
77.5°	3166.7	3217.5	3610.5	5190.0	6368.5	6242.3	3769.3	1026.7	430.0	333.3	267.8
80°	1146.8	1200.3	1690.6	2939.9	4387.6	4367.0	1856.2	422.0	290.8	251.8	195.1
82.5°	394.6	414.3	666.9	1305.6	2477.3	2569.6	698.3	239.8	211.4	178.5	133.6
85°	154.8	177.3	305.0	628.2	1249.6	1258.8	282.8	143.4	147.1	117.0	73.3
87.5°	58.8	71.4	145.9	291.8	570.6	524.1	101.3	68.3	83.7	69.6	34.8
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°	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7	1392.7
2.5°	1394.8	1401.3	1414.8	1424.1	1433.9	1436.7	1437.9	1440.4	1442.9	1441.9	1442.2
5°	1403.5	1416.1	1437.9	1447.2	1451.5	1446.5	1437.0	1429.3	1423.8	1420.7	1419.8
7.5°	1417.6	1435.5	1458.9	1457.3	1447.5	1425.6	1401.0	1382.5	1367.1	1361.6	1358.5
10°	1436.4	1457.3	1473.6	1456.1	1427.5	1389.6	1352.7	1324.0	1301.0	1292.0	1290.5
12.5°	1460.4	1481.6	1484.7	1447.5	1400.1	1348.4	1298.2	1260.3	1225.9	1214.8	1212.3
15°	1491.5	1511.5	1492.4	1432.4	1366.2	1296.7	1231.7	1180.3	1144.0	1130.5	1125.5
17.5°	1524.1	1543.2	1493.9	1407.5	1321.9	1235.4	1153.8	1101.2	1059.7	1044.0	1042.1
20°	1563.2	1571.8	1487.5	1371.8	1261.0	1156.0	1070.1	1020.6	998.4	987.3	986.1
22.5°	1611.5	1602.3	1472.7	1323.4	1183.7	1064.3	994.4	971.3	965.8	963.3	964.3
25°	1662.6	1634.3	1450.9	1260.3	1086.1	972.6	939.0	945.5	952.9	951.9	951.9
27.5°	1718.9	1666.9	1417.3	1176.6	978.1	897.5	901.5	925.2	936.3	935.9	935.6
30°	1791.3	1703.8	1374.5	1076.0	877.2	844.5	868.8	897.8	912.9	912.2	912.6
32.5°	1880.2	1744.5	1316.4	963.6	804.2	805.4	833.5	862.1	879.6	878.1	878.4
35°	1984.2	1790.0	1237.6	852.8	755.9	774.4	796.5	816.5	833.1	831.0	828.8
37.5°	2097.5	1834.6	1132.9	753.7	716.5	745.4	763.9	767.3	775.0	769.4	765.4
40°	2205.2	1868.8	998.1	672.5	676.8	720.8	732.8	719.3	705.4	703.6	698.0
42.5°	2299.1	1880.2	861.8	607.5	634.9	695.0	702.3	674.0	649.1	637.4	632.5
45°	2398.2	1884.2	734.7	553.1	594.6	671.9	679.9	642.0	606.9	581.7	573.4
47.5°	2527.8	1913.1	635.9	512.8	563.8	656.5	667.9	616.5	570.9	534.9	527.2
50°	2697.3	1970.4	555.5	482.0	543.8	646.3	659.3	591.5	541.4	498.0	490.3
52.5°	2885.7	2023.0	490.6	457.0	524.4	628.5	648.2	573.7	513.7	463.8	455.5
55°	3017.4	1982.7	438.3	431.2	499.2	602.9	632.8	558.6	474.0	430.6	423.2
57.5°	3042.7	1844.8	398.6	404.4	468.7	570.9	609.1	525.1	452.4	416.1	408.4
60°	2973.7	1652.8	369.0	379.8	436.1	530.6	564.8	501.4	431.8	400.7	394.3
62.5°	2800.4	1456.1	347.2	357.6	405.6	489.7	537.1	476.4	410.9	383.2	376.7
65°	2450.5	1222.5	326.2	337.9	377.3	454.3	512.1	453.4	390.3	369.0	362.9
67.5°	1849.7	915.6	306.5	317.0	352.1	423.5	485.1	430.6	370.3	356.7	349.3
70°	1089.2	573.4	284.1	295.2	325.6	391.5	456.1	405.6	345.3	339.2	329.6
72.5°	506.9	345.0	258.5	269.3	292.4	348.7	418.9	373.0	315.8	302.2	289.3
75°	302.5	252.4	228.4	237.9	254.2	303.2	372.1	339.8	287.8	269.9	256.4
77.5°	226.2	193.0	195.1	205.3	218.5	265.3	329.6	313.6	266.2	252.4	243.1
80°	162.8	146.5	159.1	170.2	184.0	241.3	315.8	289.9	240.7	222.2	213.6
82.5°	108.6	105.3	119.7	131.1	144.7	211.1	296.7	253.9	205.6	182.2	163.1
85°	60.0	63.4	80.6	85.6	97.3	148.7	243.1	204.1	154.8	124.6	119.1
87.5°	24.9	29.2	43.4	41.9	51.7	88.6	160.0	123.1	98.5	73.6	57.2
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)