

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: P385955

Luminaire Tested: GAW-SA1C-735-U-T4FT

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P385955  
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-SA1C-735-U-T4FT  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7138.5 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

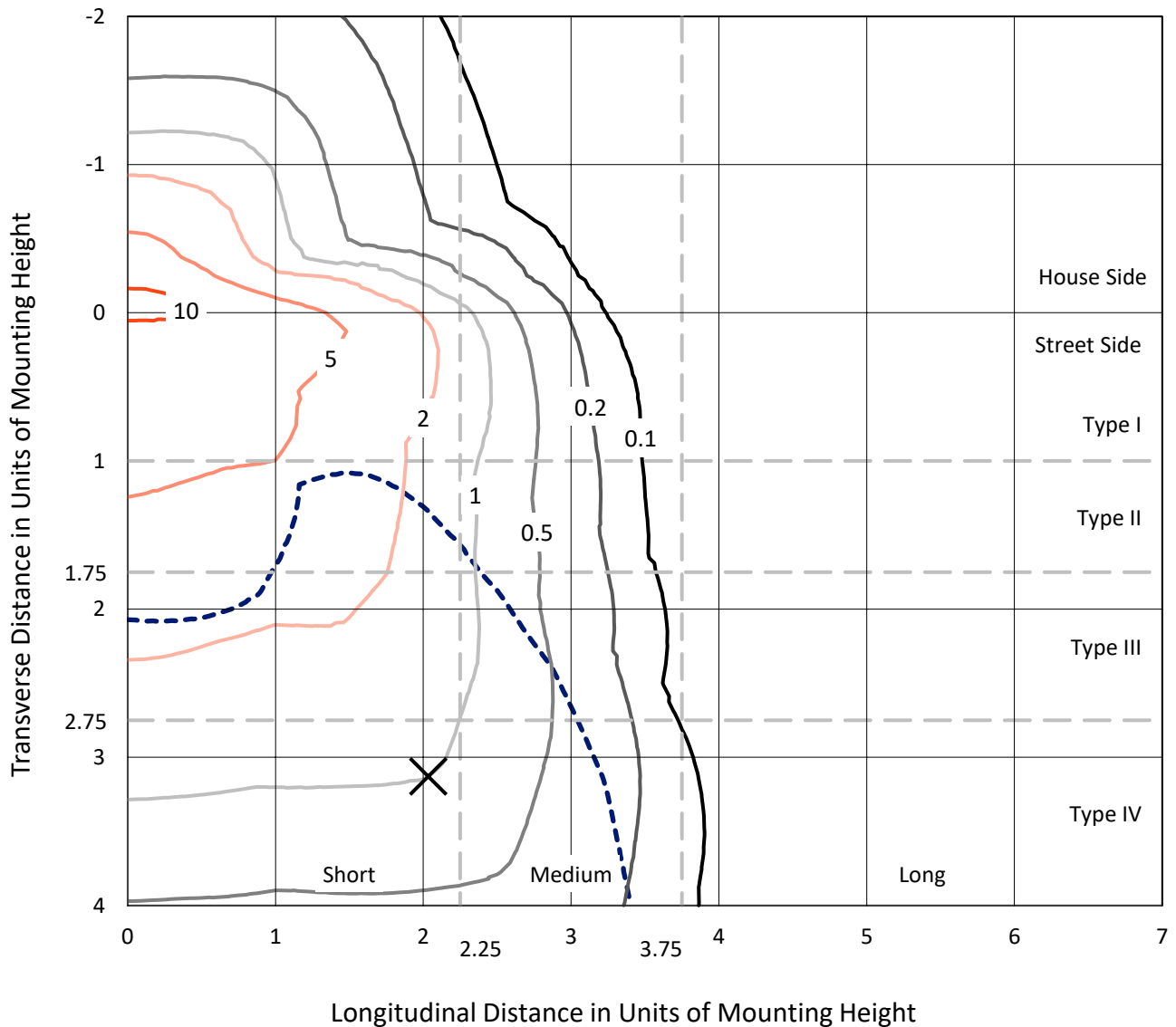
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

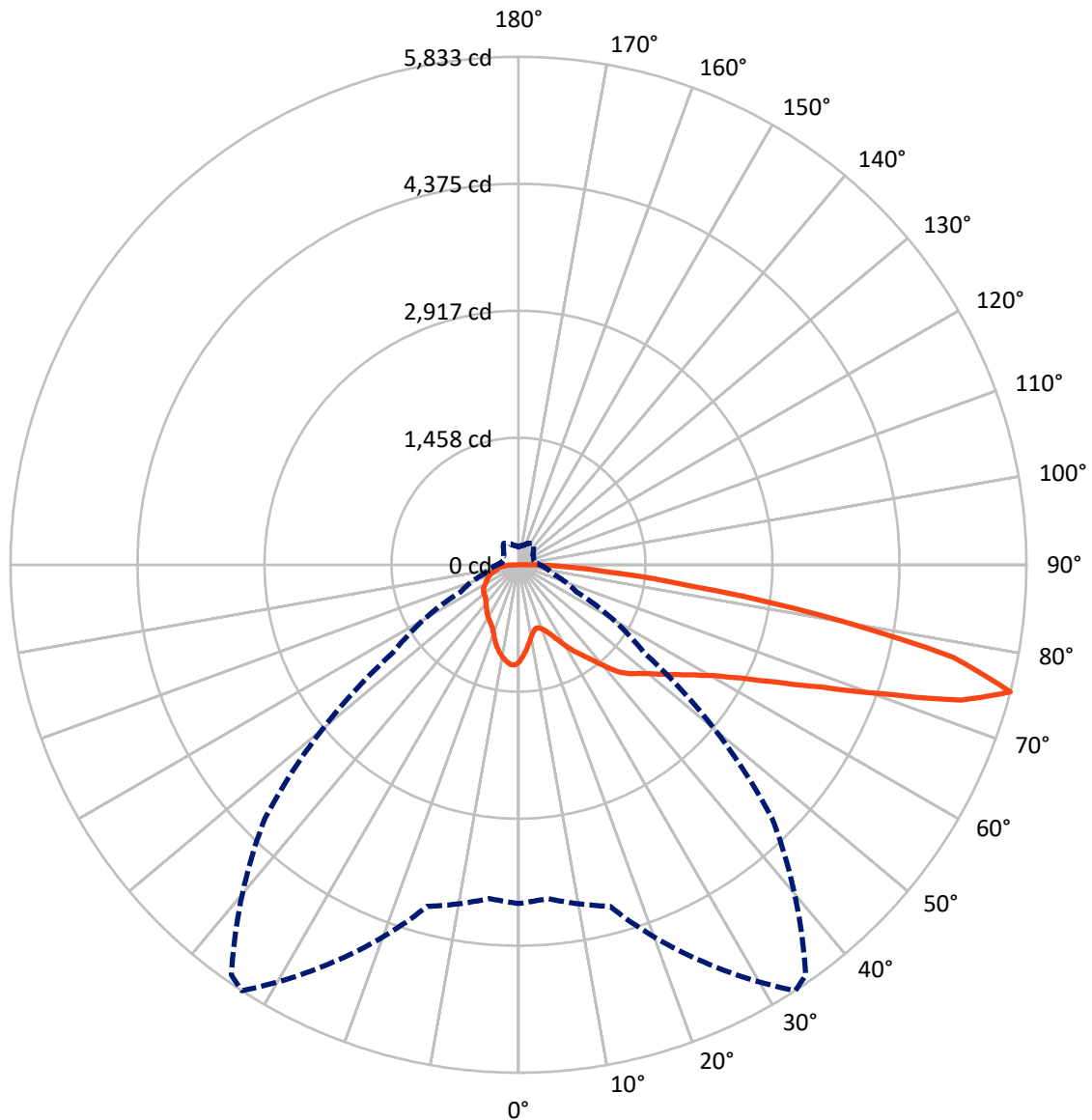
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 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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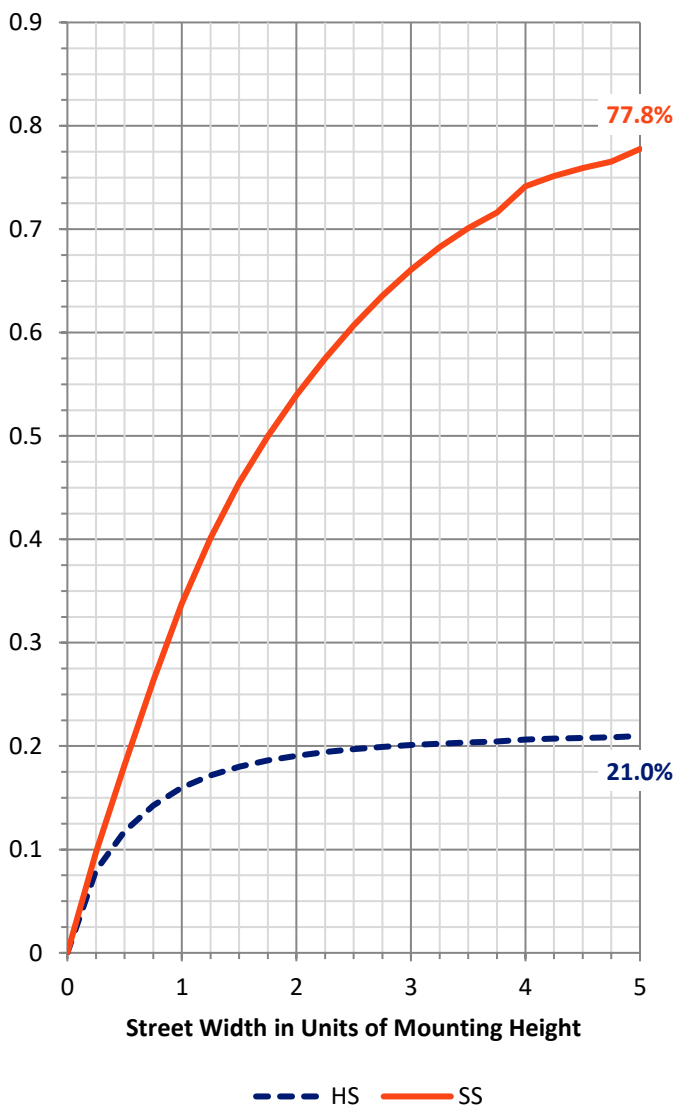
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1532.8	0.0	1532.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	5605.7	0.0	5605.7
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	7138.5	0.0	7138.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	1.4
10°-20°	273.3	3.8
20°-30°	446.3	6.3
30°-40°	664.7	9.3
40°-50°	953.4	13.4
50°-60°	1308.8	18.3
60°-70°	1638.6	23.0
70°-80°	1482.4	20.8
80°-90°	270.0	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°	7138.5	100.0
0°-180°	7138.5	100.0

**Coefficient of Utilization**



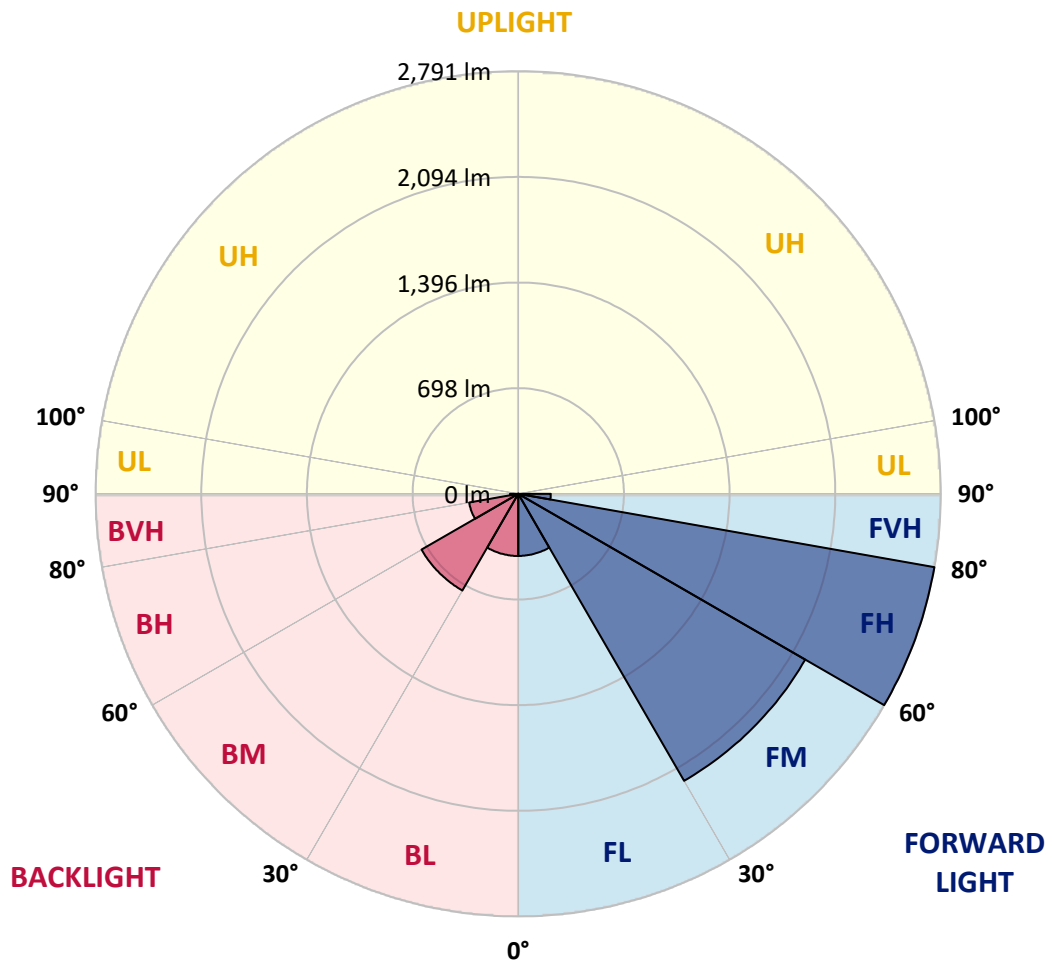
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.0	5.7			
FM (30°-60°)	2189.2	30.7			
FH (60°-80°)	2791.4	39.1			G2/5000
FVH (80°-90°)	215.0	3.0			G2/225
BL (0°-30°)	410.6	5.8	B1/500		
BM (30°-60°)	737.7	10.3	B1/1000		
BH (60°-80°)	329.6	4.6	B1/500		G1/500
BVH (80°-90°)	55.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1036.2	1032.2	1039.6	1040.6	1047.0	1049.5	1058.3	1072.1	1083.5	1096.6	1108.4
5°	942.2	939.5	949.8	957.2	971.2	977.2	998.2	1027.5	1053.6	1083.2	1110.1
7.5°	853.0	851.5	863.0	879.8	896.1	904.3	940.4	983.1	1026.8	1074.6	1115.8
10°	777.7	777.3	788.3	804.9	828.7	837.8	884.7	941.0	1002.1	1067.9	1125.4
12.5°	735.5	737.2	742.5	756.3	778.5	787.6	839.6	905.7	981.4	1065.7	1139.5
15°	745.9	748.6	739.8	739.2	755.0	762.2	811.0	880.6	966.6	1069.4	1160.0
17.5°	790.0	790.5	767.1	752.4	761.9	765.6	802.1	866.2	958.0	1077.8	1185.6
20°	852.2	851.0	809.6	784.9	790.0	791.1	814.7	866.5	957.2	1092.3	1218.9
22.5°	934.5	925.4	869.7	836.2	834.9	833.4	847.1	884.7	968.0	1116.0	1258.5
25°	1042.1	1033.4	956.8	910.8	901.0	897.3	899.3	923.7	989.6	1141.5	1302.9
27.5°	1161.7	1146.6	1072.6	1007.8	987.3	982.1	970.3	978.7	1012.9	1165.9	1355.7
30°	1261.8	1253.6	1189.0	1112.1	1087.9	1080.5	1049.5	1040.3	1046.8	1199.1	1422.2
32.5°	1317.7	1312.3	1273.1	1211.0	1188.5	1178.2	1134.3	1116.0	1101.0	1251.6	1512.5
35°	1385.5	1382.1	1358.5	1313.3	1280.0	1269.1	1235.1	1216.1	1177.4	1323.9	1629.2
37.5°	1471.8	1468.2	1468.6	1432.1	1392.5	1382.3	1359.9	1340.0	1276.5	1418.9	1755.9
40°	1569.4	1562.3	1559.6	1557.9	1532.7	1527.1	1515.2	1488.1	1400.8	1532.2	1880.9
42.5°	1716.5	1691.1	1636.8	1657.3	1682.2	1679.3	1688.8	1649.9	1538.9	1666.4	2003.0
45°	1858.2	1816.6	1722.8	1727.3	1781.8	1798.3	1870.3	1842.7	1688.6	1813.3	2129.2
47.5°	1922.8	1891.3	1811.6	1811.9	1865.9	1900.1	2057.9	2038.2	1845.9	1980.3	2283.4
50°	1995.1	1963.5	1892.0	1918.9	1966.0	2002.5	2239.2	2229.1	1995.6	2163.0	2468.1
52.5°	2074.0	2020.4	1975.1	2023.2	2089.3	2131.7	2420.7	2393.1	2132.9	2347.0	2680.4
55°	2075.0	2060.5	2094.9	2130.2	2229.1	2281.1	2610.8	2537.8	2244.9	2527.7	2853.2
57.5°	2193.1	2169.4	2242.6	2259.0	2388.1	2446.8	2800.0	2663.8	2358.8	2666.3	2946.4
60°	2349.4	2329.2	2389.2	2432.0	2584.9	2663.4	3001.9	2793.3	2448.3	2770.8	2942.0
62.5°	2619.4	2596.5	2595.7	2655.9	2861.9	2953.1	3228.5	2920.3	2483.9	2791.5	2816.5
65°	3014.7	2978.3	2909.4	2938.0	3244.3	3335.2	3481.8	3012.3	2437.0	2680.6	2493.2
67.5°	3399.4	3398.2	3313.5	3372.2	3749.3	3822.3	3770.3	3021.4	2290.7	2294.2	1919.7
70°	3782.8	3787.7	3773.5	3977.6	4431.6	4507.5	4077.4	2898.8	1962.0	1656.8	1150.1
72.5°	4086.6	4085.3	4157.4	4683.8	5317.1	5300.1	4336.3	2527.4	1408.7	894.4	549.6
75°	3889.8	3846.9	4061.5	5033.5	5833.2	5750.0	4116.1	1763.1	731.1	407.1	295.9
77.5°	2537.1	2577.8	2892.7	4158.1	5102.2	5001.1	3019.9	822.6	344.5	267.1	214.6
80°	918.7	961.7	1354.5	2355.3	3515.3	3498.8	1487.2	338.1	233.1	201.7	156.3
82.5°	316.1	331.9	534.3	1046.0	1984.8	2058.7	559.5	192.1	169.4	143.0	107.0
85°	124.0	142.0	244.3	503.2	1001.1	1008.5	226.6	114.9	117.9	93.7	58.7
87.5°	47.1	57.2	116.9	233.7	457.2	419.9	81.2	54.8	67.1	55.7	27.9
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°	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1117.5	1122.7	1133.6	1140.9	1148.8	1151.0	1152.1	1154.0	1156.0	1155.3	1155.5
5°	1124.5	1134.5	1152.1	1159.4	1162.9	1158.9	1151.3	1145.1	1140.7	1138.3	1137.5
7.5°	1135.7	1150.1	1168.8	1167.6	1159.7	1142.2	1122.5	1107.6	1095.3	1090.9	1088.4
10°	1150.8	1167.6	1180.6	1166.5	1143.6	1113.3	1083.7	1060.8	1042.3	1035.1	1033.9
12.5°	1170.0	1187.0	1189.6	1159.7	1121.7	1080.3	1040.1	1009.8	982.1	973.2	971.2
15°	1194.9	1211.0	1195.7	1147.6	1094.6	1038.9	986.8	945.6	916.6	905.7	901.7
17.5°	1221.0	1236.3	1196.9	1127.6	1059.1	989.7	924.5	882.3	849.0	836.4	834.9
20°	1252.4	1259.3	1191.7	1099.0	1010.2	926.1	857.4	817.6	799.9	791.1	790.0
22.5°	1291.1	1283.7	1179.9	1060.3	948.3	852.7	796.7	778.2	773.8	771.8	772.6
25°	1332.1	1309.3	1162.4	1009.8	870.2	779.2	752.4	757.5	763.4	762.7	762.7
27.5°	1377.2	1335.4	1135.5	942.7	783.6	719.0	722.2	741.2	750.1	749.8	749.6
30°	1435.1	1365.0	1101.3	862.1	702.8	676.6	696.1	719.3	731.3	730.8	731.1
32.5°	1506.4	1397.6	1054.7	772.1	644.3	645.3	667.7	690.6	704.7	703.5	703.7
35°	1589.7	1434.1	991.5	683.3	605.6	620.4	638.1	654.2	667.5	665.7	664.1
37.5°	1680.5	1469.9	907.6	603.8	574.1	597.3	612.0	614.7	620.8	616.4	613.2
40°	1766.7	1497.2	799.7	538.7	542.2	577.5	587.1	576.2	565.1	563.7	559.2
42.5°	1842.0	1506.4	690.5	486.8	508.7	556.8	562.7	540.1	520.0	510.7	506.7
45°	1921.3	1509.6	588.6	443.1	476.4	538.3	544.7	514.4	486.2	466.0	459.4
47.5°	2025.1	1532.7	509.4	410.8	451.8	526.0	535.1	493.9	457.4	428.6	422.4
50°	2161.1	1578.7	445.1	386.2	435.7	517.8	528.2	473.9	433.7	399.0	392.8
52.5°	2311.9	1620.7	393.0	366.2	420.2	503.5	519.3	459.6	411.5	371.6	365.0
55°	2417.4	1588.5	351.1	345.4	400.0	483.0	507.0	447.5	379.7	344.9	339.0
57.5°	2437.7	1478.0	319.3	324.0	375.6	457.4	488.0	420.7	362.5	333.4	327.2
60°	2382.5	1324.2	295.6	304.3	349.4	425.1	452.5	401.7	346.0	321.1	315.8
62.5°	2243.6	1166.5	278.2	286.5	325.0	392.3	430.2	381.7	329.2	307.0	301.8
65°	1963.2	979.4	261.3	270.7	302.3	363.9	410.3	363.2	312.6	295.6	290.7
67.5°	1482.0	733.6	245.6	254.0	282.1	339.3	388.6	344.9	296.7	285.8	279.8
70°	872.7	459.4	227.6	236.4	260.9	313.7	365.4	325.0	276.7	271.8	264.1
72.5°	406.1	276.5	207.1	215.8	234.3	279.4	335.6	298.8	253.0	242.2	231.7
75°	242.4	202.2	183.0	190.6	203.7	242.9	298.2	272.2	230.5	216.2	205.4
77.5°	181.2	154.6	156.3	164.5	175.1	212.6	264.1	251.3	213.3	202.2	194.8
80°	130.5	117.3	127.5	136.4	147.5	193.3	253.0	232.3	192.9	178.0	171.2
82.5°	87.1	84.4	95.9	105.0	115.9	169.2	237.7	203.5	164.7	146.0	130.7
85°	48.1	50.8	64.6	68.6	77.9	119.1	194.8	163.5	124.0	99.9	95.4
87.5°	20.0	23.4	34.8	33.5	41.4	71.0	128.2	98.6	78.9	58.9	45.8
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)