

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: P386175

Luminaire Tested: GAW-SA1D-735-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-735-U-T3
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7785.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

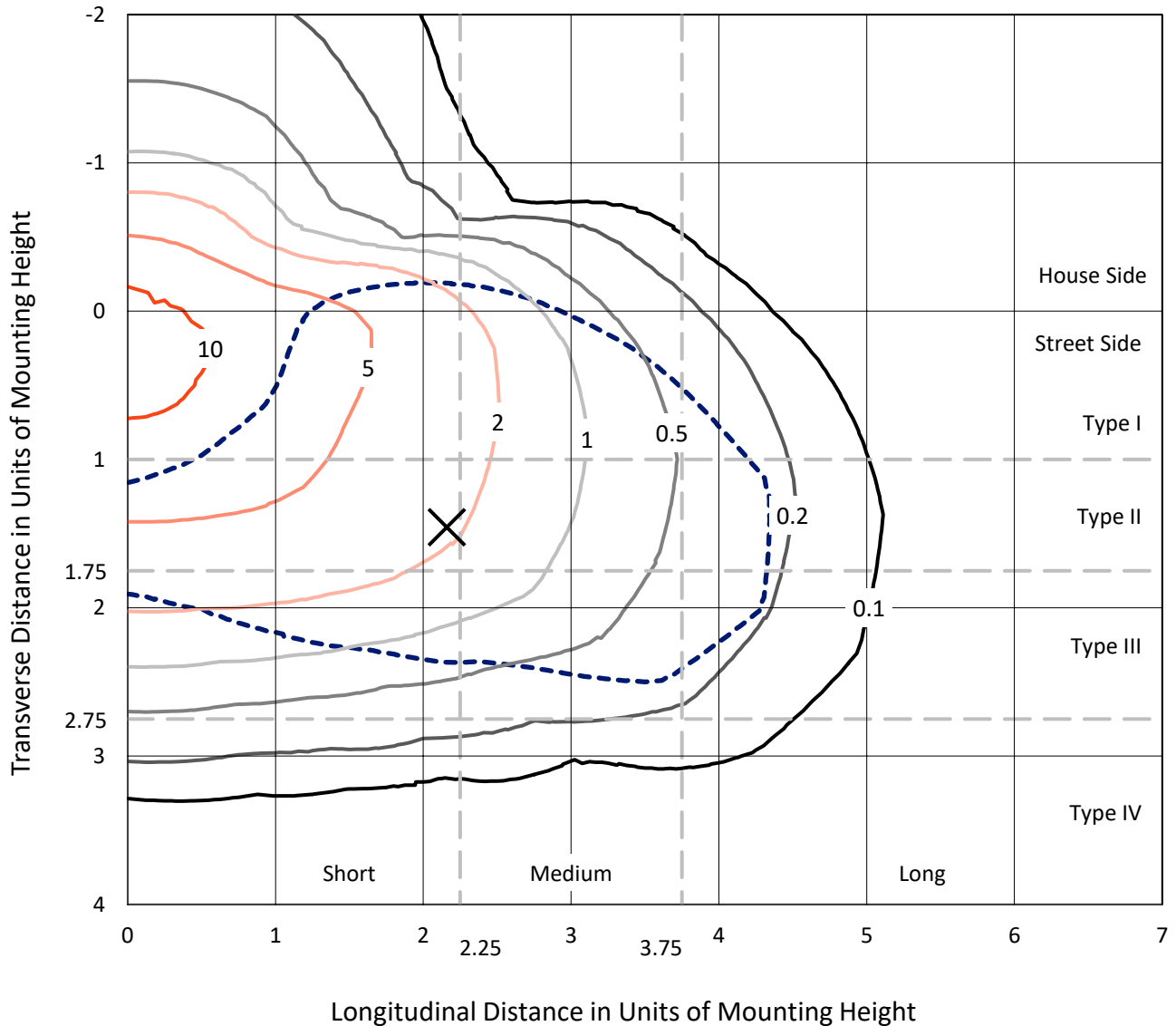
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

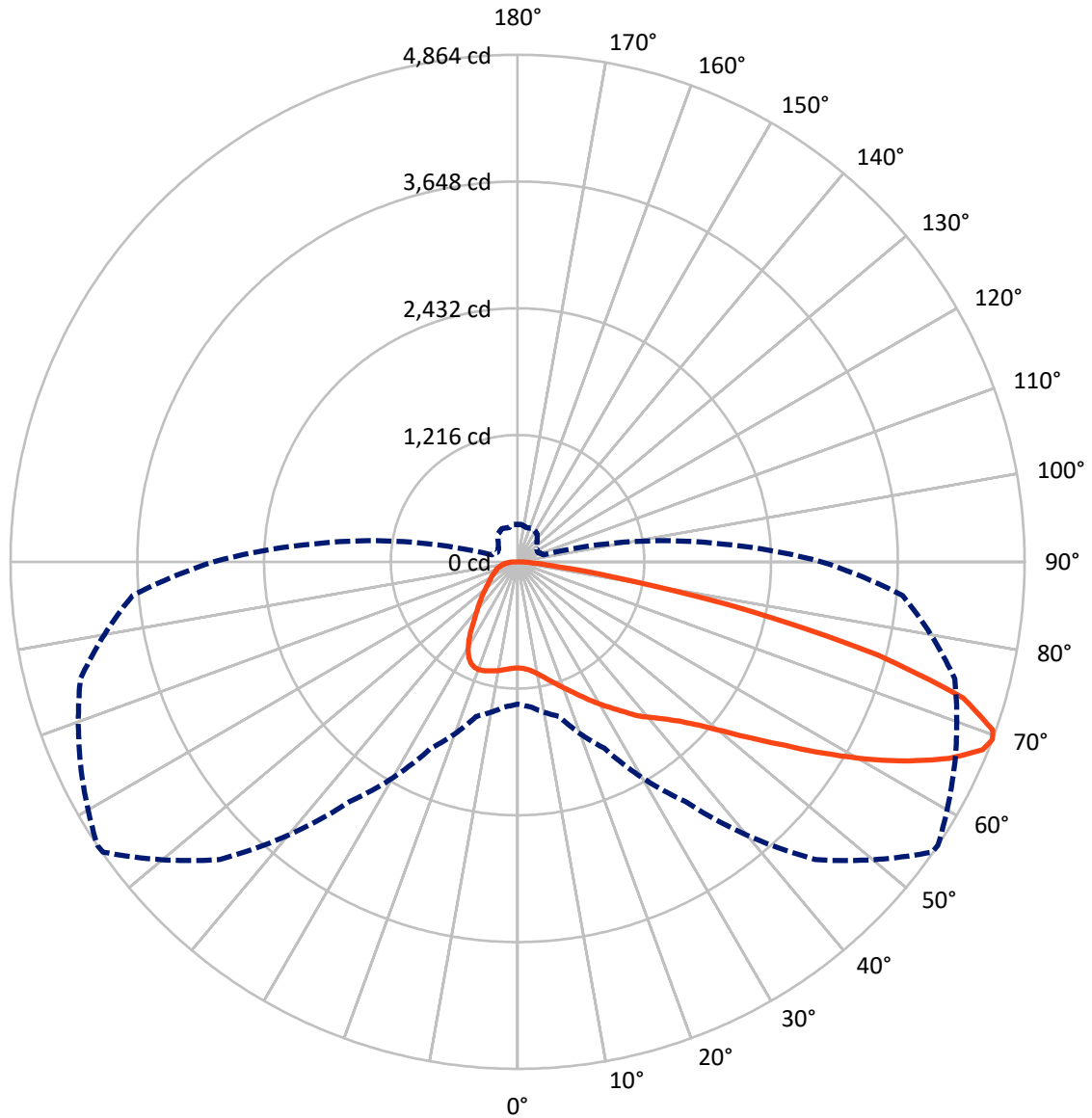
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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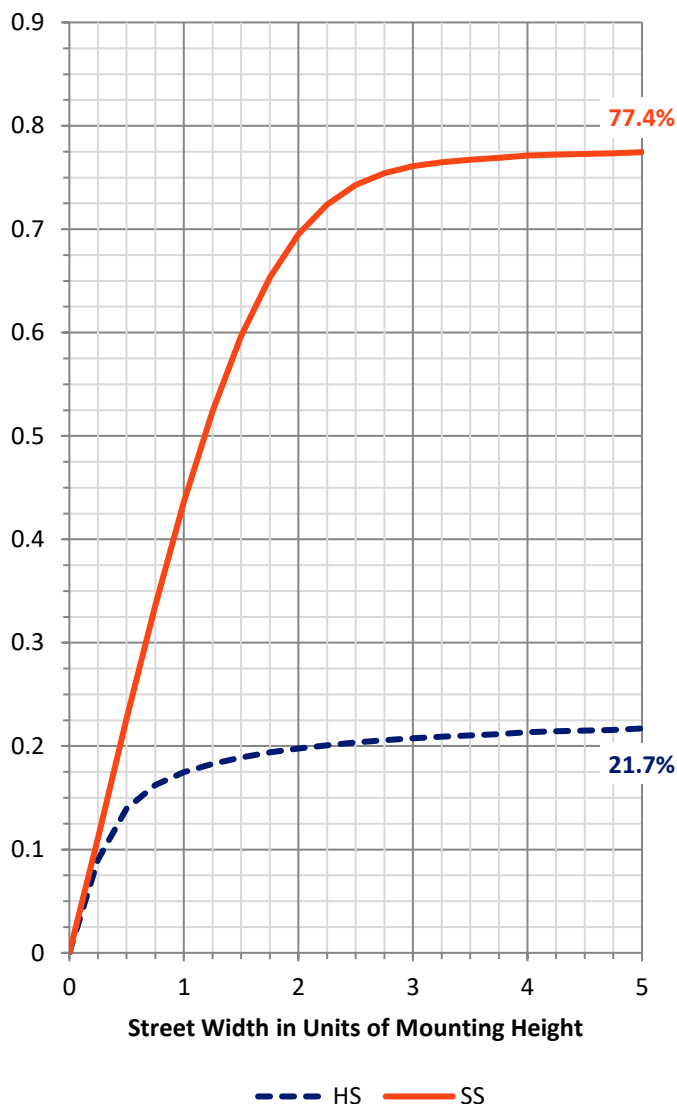
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.9	0.0	1733.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6051.8	0.0	6051.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	7785.7	0.0	7785.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.3
10°-20°	321.5	4.1
20°-30°	561.2	7.2
30°-40°	806.1	10.4
40°-50°	1115.6	14.3
50°-60°	1634.5	21.0
60°-70°	1992.7	25.6
70°-80°	1101.7	14.2
80°-90°	152.6	2.0
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°	7785.7	100.0
0°-180°	7785.7	100.0

Coefficient of Utilization



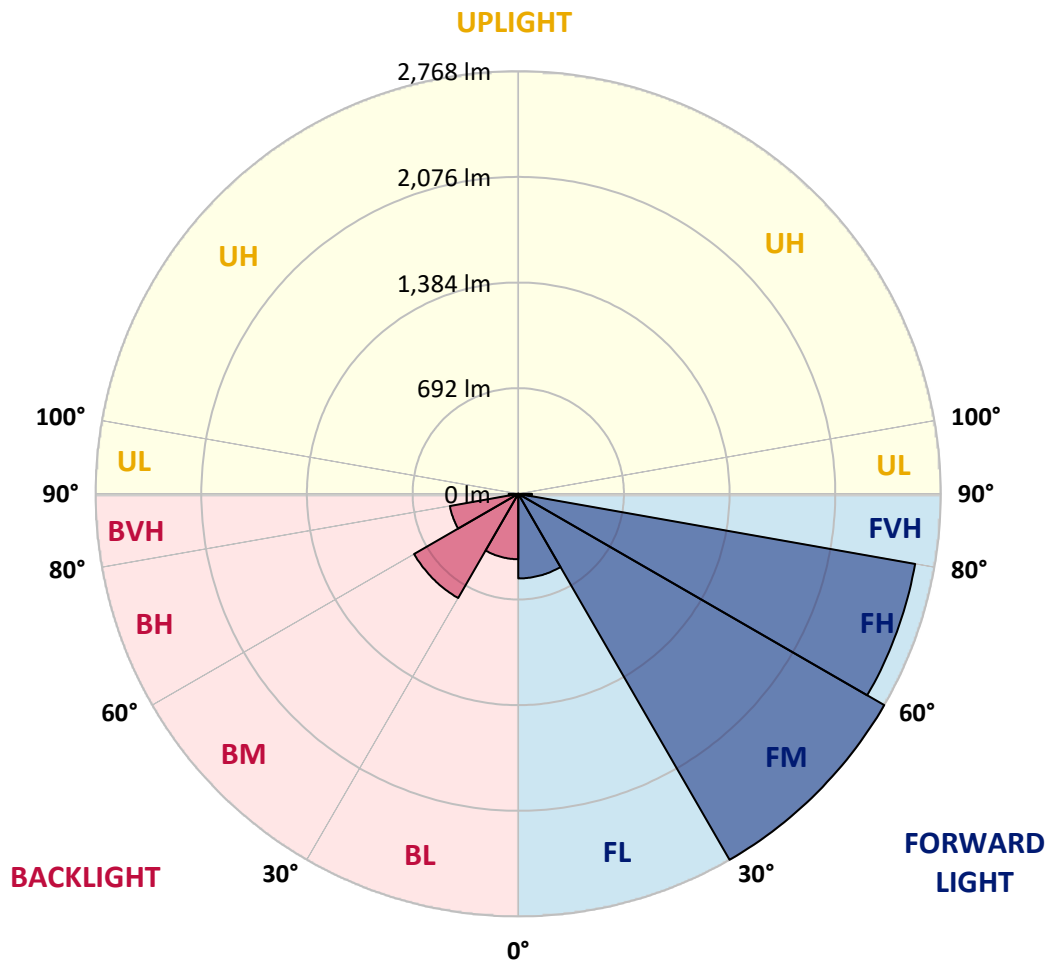
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.1	7.1			
FM (30°-60°)	2768.1	35.6			
FH (60°-80°)	2639.7	33.9			G2/5000
FVH (80°-90°)	89.9	1.2			G1/100
BL (0°-30°)	428.5	5.5	B1/500		
BM (30°-60°)	788.0	10.1	B1/1000		
BH (60°-80°)	454.7	5.8	B1/500		G1/500
BVH (80°-90°)	62.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8
2.5°	1024.3	1025.3	1024.6	1026.8	1024.3	1025.9	1024.6	1024.6	1023.8	1021.3	1018.7
5°	1040.4	1042.5	1041.2	1043.4	1040.4	1040.9	1038.5	1038.5	1036.1	1031.0	1025.6
7.5°	1065.6	1068.0	1067.0	1069.1	1065.1	1065.1	1061.9	1061.6	1056.7	1048.5	1042.3
10°	1095.6	1098.9	1097.8	1101.0	1097.8	1098.9	1095.6	1095.6	1089.2	1077.4	1069.6
12.5°	1139.4	1143.4	1140.4	1140.1	1138.8	1141.0	1138.3	1137.8	1131.9	1115.7	1105.0
15°	1197.8	1202.1	1195.9	1195.4	1187.9	1187.1	1187.1	1186.3	1182.5	1163.3	1145.5
17.5°	1265.2	1266.5	1261.1	1252.6	1242.9	1236.7	1236.0	1238.0	1238.0	1215.6	1187.4
20°	1331.1	1333.6	1329.2	1319.6	1307.3	1298.1	1291.7	1296.0	1295.7	1268.9	1228.9
22.5°	1403.0	1408.6	1402.2	1389.8	1375.4	1365.2	1353.9	1357.7	1358.0	1324.9	1269.7
25°	1496.1	1491.0	1487.0	1469.5	1448.9	1438.4	1428.0	1431.7	1430.6	1385.3	1311.9
27.5°	1578.5	1579.5	1574.1	1555.6	1531.8	1508.7	1508.2	1510.5	1506.5	1448.1	1351.5
30°	1674.2	1674.8	1667.2	1650.6	1624.6	1594.8	1587.9	1591.8	1583.3	1507.6	1393.4
32.5°	1769.3	1772.1	1763.7	1743.6	1722.8	1686.5	1672.6	1675.2	1653.8	1568.5	1436.5
35°	1852.8	1856.5	1853.9	1840.5	1817.6	1786.5	1769.9	1768.3	1741.7	1643.1	1493.6
37.5°	1937.8	1941.4	1938.3	1927.1	1918.0	1885.0	1876.2	1876.2	1830.0	1719.3	1566.3
40°	2025.2	2030.6	2027.1	2011.6	2003.8	1988.8	1967.6	1962.5	1912.6	1810.7	1684.9
42.5°	2106.5	2113.5	2127.4	2118.3	2102.6	2104.6	2062.0	2059.3	2022.9	1945.9	1833.8
45°	2221.9	2232.1	2255.7	2248.7	2245.4	2233.7	2183.0	2180.5	2166.6	2127.7	2018.6
47.5°	2347.6	2361.6	2404.3	2405.6	2440.2	2417.9	2349.0	2340.7	2343.9	2345.5	2244.1
50°	2463.6	2478.8	2548.9	2581.8	2663.4	2668.2	2558.0	2550.5	2563.0	2600.1	2507.0
52.5°	2556.1	2575.3	2662.8	2764.7	2904.4	2944.2	2815.2	2809.5	2818.9	2882.7	2804.2
55°	2623.9	2644.9	2740.0	2925.6	3148.8	3218.8	3111.3	3105.9	3111.8	3193.1	3127.3
57.5°	2639.7	2644.9	2783.0	3034.1	3355.0	3523.2	3473.6	3462.9	3434.0	3504.7	3484.0
60°	2565.5	2585.9	2747.5	3072.1	3514.6	3823.3	3852.4	3838.9	3757.7	3815.5	3798.9
62.5°	2414.7	2451.2	2615.4	3014.1	3577.1	4068.5	4223.8	4207.7	4067.7	4105.2	4025.3
65°	2168.5	2184.1	2356.5	2814.3	3497.7	4225.4	4555.0	4546.9	4370.8	4312.0	4067.2
67.5°	1728.1	1757.3	1903.8	2396.8	3172.9	4206.9	4811.2	4810.4	4568.7	4388.8	3918.9
69°	1365.2	1395.5	1535.0	1974.3	2807.7	4037.7	4854.1	4863.5	4624.5	4342.1	3706.9
70°	1088.4	1123.5	1219.3	1662.9	2483.4	3814.5	4818.4	4835.3	4613.7	4265.1	3511.5
72.5°	463.2	491.6	559.8	857.2	1513.6	2848.4	4405.7	4469.4	4365.2	3903.6	2902.1
75°	202.3	211.1	241.9	349.5	671.9	1550.3	3451.3	3569.3	3732.4	3299.5	2161.8
77.5°	148.0	151.8	168.7	205.2	301.5	585.5	2219.4	2288.1	2691.7	2401.0	1326.0
80°	114.5	117.2	130.4	150.8	196.9	236.8	1012.2	1071.2	1513.6	1233.2	552.3
82.5°	91.2	93.1	102.2	111.0	136.0	143.5	336.1	372.8	558.7	340.6	146.2
85°	84.7	86.9	90.1	81.0	87.2	84.3	145.3	152.1	168.7	133.9	61.2
87.5°	38.3	45.4	89.3	63.0	46.4	37.0	59.6	62.2	70.0	70.3	27.1
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°	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8	1017.8
2.5°	1020.3	1019.4	1020.8	1017.6	1021.6	1021.3	1020.0	1020.6	1023.2	1023.0	1023.2
5°	1026.5	1025.9	1027.5	1025.1	1030.0	1031.5	1031.8	1034.2	1037.2	1037.9	1037.9
7.5°	1042.0	1042.0	1042.8	1039.6	1042.8	1042.5	1041.2	1043.6	1046.6	1046.9	1046.6
10°	1068.8	1069.1	1067.7	1059.4	1056.7	1049.5	1042.8	1043.1	1046.9	1049.8	1050.6
12.5°	1102.7	1101.5	1095.6	1080.4	1069.1	1054.4	1047.3	1047.1	1050.8	1053.2	1054.1
15°	1141.3	1138.3	1123.0	1098.1	1078.2	1063.8	1052.5	1049.8	1047.6	1045.0	1045.3
17.5°	1177.7	1171.0	1145.5	1110.9	1090.0	1070.7	1049.0	1031.5	1019.4	1012.5	1010.3
20°	1214.7	1201.6	1164.8	1123.0	1096.5	1061.3	1019.4	984.1	962.0	951.9	950.0
22.5°	1248.5	1227.3	1182.8	1135.6	1091.4	1029.7	963.9	912.4	881.9	868.2	869.3
25°	1281.5	1252.0	1201.6	1144.5	1065.6	973.9	886.7	823.4	788.0	772.7	772.2
27.5°	1310.5	1276.9	1222.0	1137.2	1017.6	894.5	795.3	733.6	704.1	690.9	688.8
30°	1343.7	1308.3	1249.0	1109.6	947.3	802.7	706.0	662.5	641.6	628.5	626.0
32.5°	1384.2	1350.9	1271.3	1059.4	857.5	707.0	636.2	605.9	586.8	572.1	569.4
35°	1443.3	1407.3	1276.9	987.6	758.7	631.4	585.0	553.9	528.1	509.1	507.2
37.5°	1517.3	1477.9	1264.0	894.5	663.0	582.3	542.3	504.0	470.4	443.6	439.4
40°	1624.0	1564.5	1228.4	787.2	592.5	544.5	500.8	457.0	415.5	384.1	377.9
42.5°	1752.3	1666.1	1173.7	680.5	540.7	506.1	459.5	405.3	365.6	343.3	340.1
45°	1915.3	1771.8	1097.8	587.1	489.8	467.7	414.9	365.0	340.3	324.0	321.3
47.5°	2101.4	1890.3	1018.1	511.2	446.6	431.8	379.2	347.1	327.5	314.6	312.2
50°	2330.3	2024.2	933.7	449.0	403.1	388.6	362.3	337.1	321.6	311.7	309.2
52.5°	2588.2	2175.2	872.8	399.9	367.2	356.7	353.5	331.8	319.2	311.7	309.2
55°	2866.1	2328.9	807.0	358.6	336.1	339.0	347.6	332.4	323.7	314.6	311.1
57.5°	3144.2	2487.7	733.9	323.7	311.4	325.9	343.5	333.4	326.2	317.3	314.0
60°	3364.2	2588.2	620.4	294.5	291.8	311.4	334.0	325.3	315.9	316.2	315.7
62.5°	3466.9	2582.9	495.2	268.5	272.2	291.8	318.4	312.7	304.9	315.4	316.2
65°	3409.2	2454.2	385.4	244.9	251.3	271.4	302.3	306.5	309.2	329.4	332.1
67.5°	3167.4	2203.6	298.5	224.2	232.3	257.5	303.9	334.0	337.4	358.6	358.3
69°	2917.1	1968.7	259.4	213.5	222.9	261.0	324.8	351.3	338.2	360.7	357.5
70°	2707.3	1782.8	238.4	206.3	218.6	267.2	338.7	351.1	334.2	353.5	348.1
72.5°	2085.1	1282.6	202.3	192.9	204.1	255.6	342.8	343.3	324.8	328.6	319.4
75°	1430.1	810.5	176.5	174.6	182.1	230.4	329.9	328.0	300.4	295.1	287.5
77.5°	788.5	411.7	149.9	157.2	162.2	204.1	299.9	297.2	274.4	263.1	260.4
80°	304.2	180.3	126.6	139.8	143.0	176.8	262.8	260.4	241.4	226.9	222.9
82.5°	114.8	94.4	104.6	121.0	119.9	145.9	222.6	221.3	202.7	181.6	175.1
85°	53.1	56.6	82.9	99.8	92.0	108.1	178.1	180.6	158.0	132.7	132.7
87.5°	22.5	31.7	58.7	75.3	62.0	73.0	130.6	124.8	114.5	79.4	74.6
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)