

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: P386395

Luminaire Tested: GAW-SA2A-735-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386395
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-735-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8964.7 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

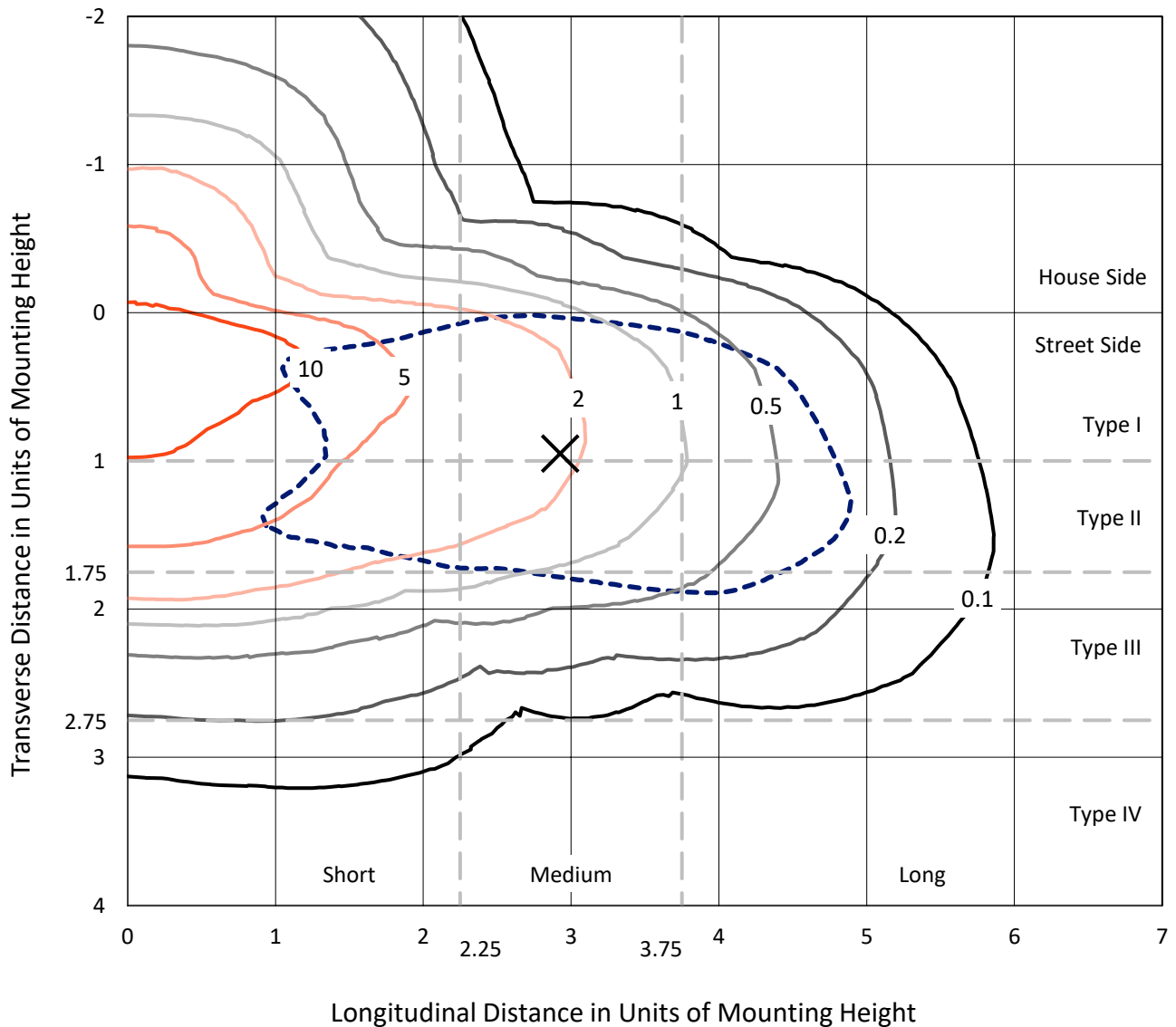
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

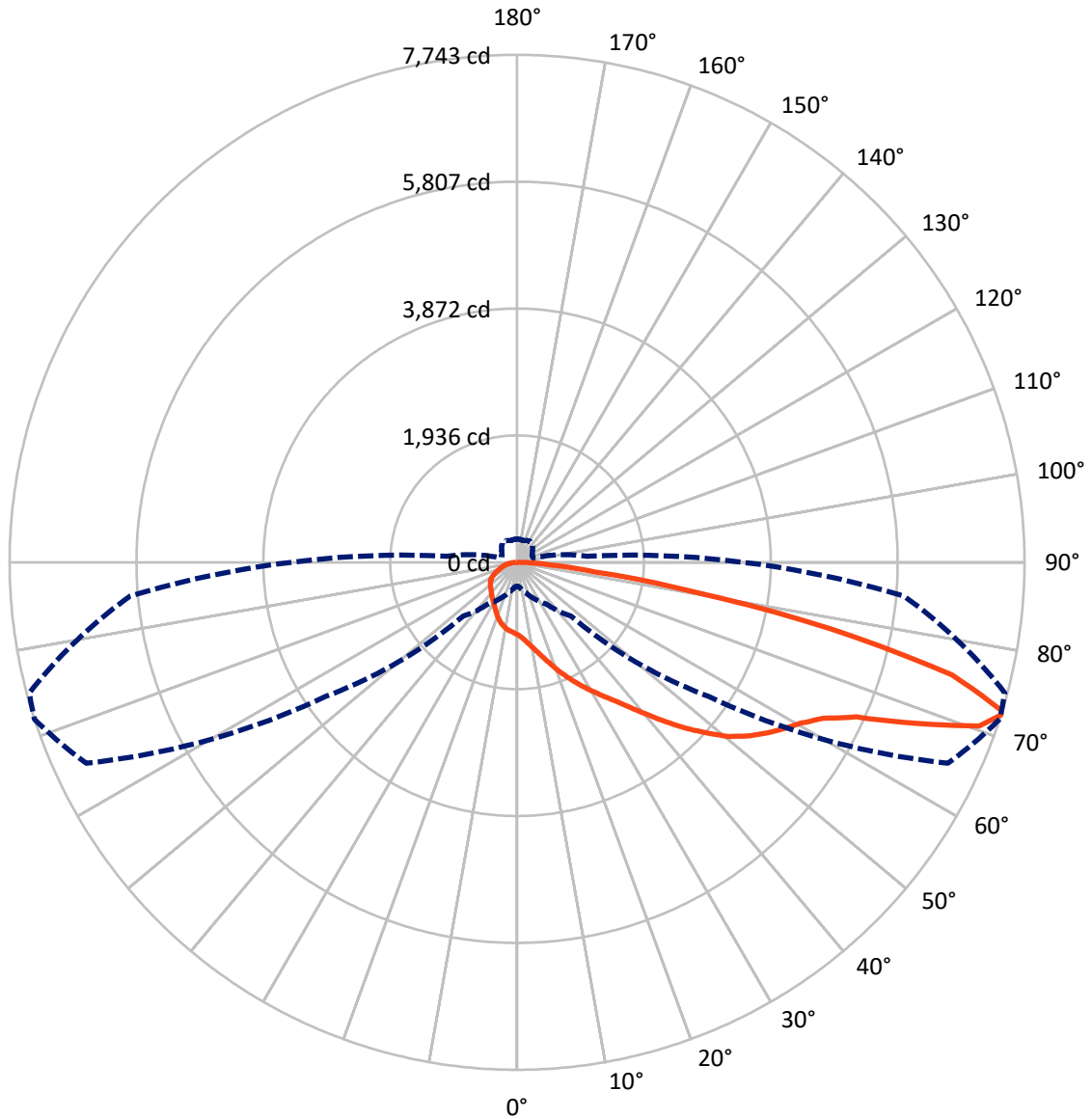
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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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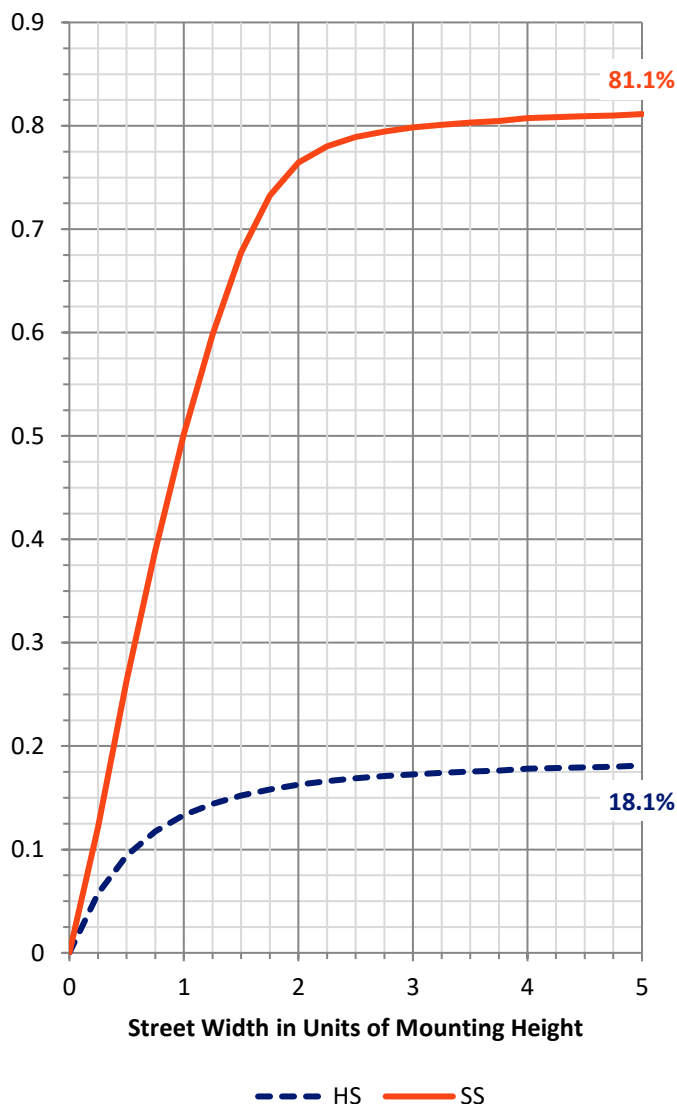
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.0	0.0	1663.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7301.6	0.0	7301.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	8964.7	0.0	8964.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	1.2
10°-20°	357.1	4.0
20°-30°	625.8	7.0
30°-40°	927.9	10.4
40°-50°	1357.1	15.1
50°-60°	1867.3	20.8
60°-70°	2078.9	23.2
70°-80°	1408.6	15.7
80°-90°	231.5	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°	8964.7	100.0
0°-180°	8964.7	100.0

Coefficient of Utilization

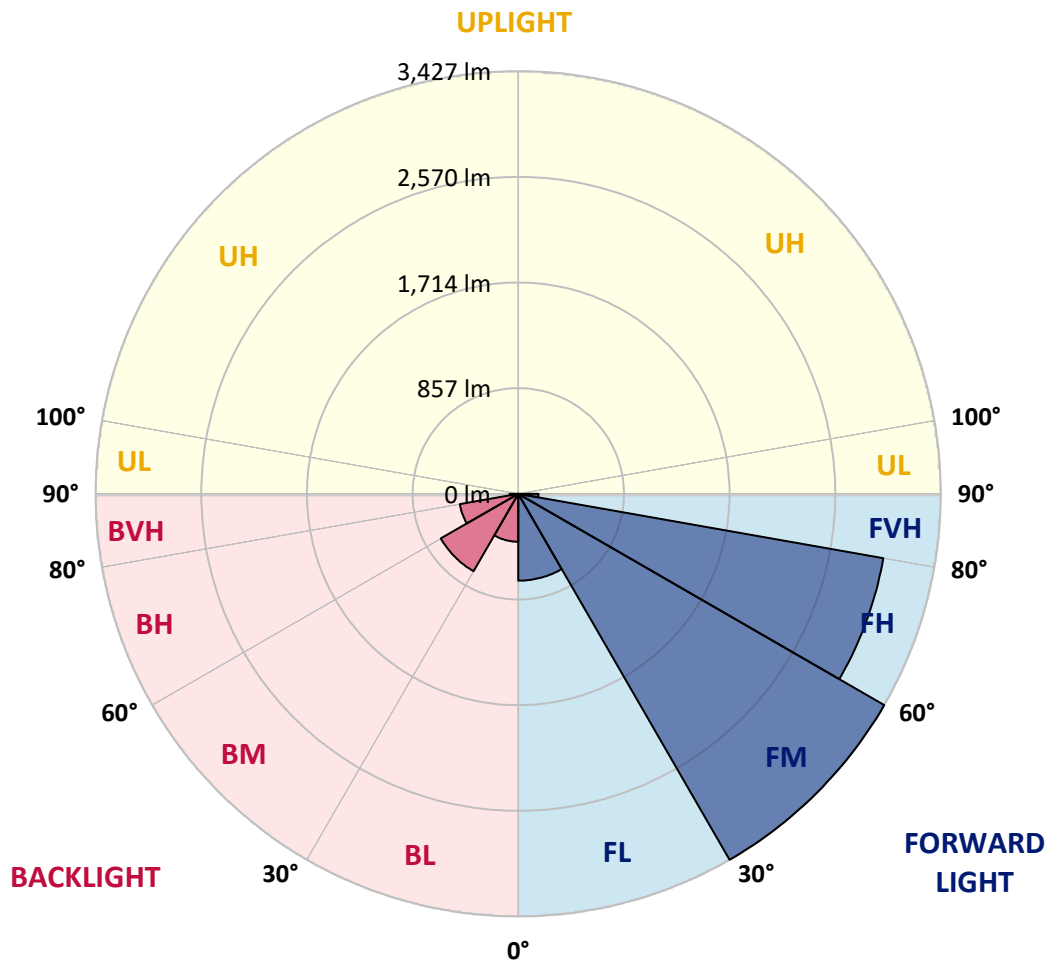


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.7	7.9			
FM (30°-60°)	3427.3	38.2			
FH (60°-80°)	3006.4	33.5			G2/5000
FVH (80°-90°)	163.3	1.8			G2/225
BL (0°-30°)	388.7	4.3	B1/500		
BM (30°-60°)	724.9	8.1	B1/1000		
BH (60°-80°)	481.1	5.4	B1/500		G1/500
BVH (80°-90°)	68.2	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8
2.5°	1218.3	1216.5	1210.0	1210.0	1197.6	1187.1	1167.4	1154.1	1138.4	1132.8	1114.3
5°	1336.2	1336.9	1328.9	1323.2	1305.1	1282.8	1249.2	1218.7	1188.1	1175.7	1137.8
7.5°	1435.3	1434.1	1431.9	1427.3	1410.3	1387.5	1342.1	1296.7	1251.6	1233.1	1167.7
10°	1498.9	1501.7	1503.5	1505.7	1498.6	1482.3	1439.3	1384.1	1325.1	1299.8	1203.6
12.5°	1531.0	1535.9	1544.6	1559.4	1571.1	1569.3	1538.1	1479.5	1409.4	1377.6	1248.3
15°	1549.8	1556.3	1569.9	1596.4	1629.5	1648.3	1640.0	1586.9	1508.8	1469.6	1302.9
17.5°	1561.6	1566.8	1587.8	1623.3	1672.4	1722.4	1744.3	1699.8	1621.1	1576.4	1365.6
20°	1569.6	1573.6	1599.9	1641.5	1705.1	1784.8	1845.8	1834.7	1744.9	1686.9	1431.0
22.5°	1587.5	1590.9	1615.9	1657.8	1728.3	1831.1	1943.7	1960.4	1875.5	1809.7	1501.1
25°	1637.5	1637.5	1658.5	1687.8	1753.8	1871.2	2026.5	2100.2	2008.8	1932.2	1565.9
27.5°	1732.9	1732.0	1739.7	1749.9	1799.9	1911.9	2100.2	2223.6	2147.1	2063.5	1628.8
30°	1845.8	1852.0	1853.0	1848.0	1871.5	1962.9	2168.4	2353.9	2286.3	2196.2	1693.4
32.5°	1991.2	1995.3	1990.7	1974.2	1970.8	2035.1	2235.4	2490.3	2437.0	2334.8	1752.3
35°	2175.8	2168.1	2153.6	2120.3	2088.5	2131.7	2311.9	2626.8	2606.2	2502.4	1833.5
37.5°	2373.7	2374.0	2356.1	2280.5	2236.6	2255.1	2417.5	2781.5	2810.8	2701.8	1937.5
40°	2532.3	2540.7	2551.8	2452.4	2395.6	2421.2	2551.8	2960.8	3052.7	2938.2	2073.1
42.5°	2643.2	2652.8	2684.2	2621.8	2562.9	2610.5	2709.9	3152.1	3324.4	3211.1	2231.7
45°	2760.4	2765.7	2787.9	2761.1	2723.4	2830.5	2888.0	3350.3	3611.8	3501.9	2409.2
47.5°	2883.9	2889.5	2912.3	2894.5	2874.6	3036.1	3073.8	3537.1	3887.1	3821.4	2598.7
50°	3036.4	3040.1	3061.7	3029.3	3035.5	3191.0	3239.8	3708.4	4175.7	4108.4	2788.9
52.5°	3244.5	3245.4	3275.3	3246.0	3217.0	3304.6	3382.8	3869.8	4402.0	4370.2	2979.0
55°	3407.5	3417.3	3515.5	3509.3	3492.7	3407.7	3502.2	4023.5	4603.9	4619.0	3180.9
57.5°	3303.4	3342.0	3540.8	3680.9	3817.3	3664.2	3663.6	4196.7	4791.5	4863.1	3402.8
60°	2893.1	2945.7	3238.6	3549.4	3976.3	4110.6	3998.8	4408.1	4981.0	5105.1	3680.9
62.5°	2066.3	2152.7	2549.6	3046.0	3758.4	4406.3	4681.0	4743.7	5238.8	5385.4	4042.4
65°	1044.5	1110.0	1442.7	2040.6	3002.8	4213.1	5422.5	5478.3	5686.6	5816.9	4598.9
67.5°	634.7	659.4	821.7	1135.0	1840.9	3281.8	5664.5	6702.8	6553.4	6622.5	5392.5
70°	467.6	485.9	587.1	753.8	1058.8	1925.8	4921.8	7576.7	7478.5	7470.8	5979.0
72°	364.2	377.5	467.1	609.0	774.2	1155.4	3567.3	7254.1	7743.3	7704.4	5925.2
72.5°	345.4	357.2	438.6	573.2	731.5	1047.3	3207.4	7036.4	7724.2	7706.6	5855.8
75°	272.0	280.3	324.7	443.2	572.6	594.2	1757.6	5453.0	6852.2	7137.1	5266.9
77.5°	225.0	226.3	249.7	322.6	446.3	420.1	863.4	3783.4	4906.6	5219.9	3730.9
80°	183.4	184.9	196.1	226.3	337.7	310.8	410.0	2175.5	2747.2	2750.5	1774.2
82.5°	146.0	146.3	158.7	165.4	242.6	222.3	234.9	1021.4	1200.5	1154.7	637.8
85°	102.8	100.6	155.0	135.8	158.7	142.6	129.6	404.3	496.4	474.8	199.7
87.5°	34.3	35.5	68.9	87.9	92.6	80.9	57.7	155.0	187.4	185.8	63.3
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°	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8
2.5°	1108.5	1098.5	1084.1	1068.0	1055.3	1042.4	1032.8	1027.9	1022.3	1017.6	1023.3
5°	1120.1	1101.6	1070.8	1040.6	1018.3	998.6	984.4	977.0	970.1	965.5	966.2
7.5°	1139.3	1109.3	1057.5	1013.3	982.5	961.2	946.7	941.7	937.4	936.2	937.7
10°	1159.7	1115.5	1039.9	981.3	946.1	928.5	922.0	925.4	928.5	931.2	934.3
12.5°	1182.8	1121.1	1014.3	943.6	913.7	906.9	913.4	928.2	939.0	945.5	949.4
15°	1213.0	1126.1	984.7	906.0	885.8	893.6	915.5	941.2	960.0	972.0	973.9
17.5°	1240.8	1125.8	946.7	868.0	863.4	885.8	918.9	955.0	980.4	997.4	1000.7
20°	1269.6	1117.4	902.6	831.0	840.5	877.6	920.4	964.0	994.5	1014.3	1019.0
22.5°	1296.5	1102.8	854.1	797.3	821.4	866.4	914.6	958.7	989.3	1005.3	1010.3
25°	1314.6	1077.6	805.1	768.9	804.4	852.9	895.4	930.9	953.8	961.8	963.1
27.5°	1323.9	1044.5	758.7	744.2	786.8	830.6	859.9	877.6	884.1	883.4	882.2
30°	1325.1	1001.0	718.9	724.2	766.5	797.9	811.8	808.4	800.1	785.9	787.1
32.5°	1321.1	952.0	685.6	705.0	740.5	758.1	758.7	742.3	720.1	697.6	691.4
35°	1322.4	903.8	656.3	683.4	709.1	716.8	709.6	685.6	655.3	626.3	620.1
37.5°	1335.9	861.8	630.9	658.4	674.1	676.0	665.8	640.5	618.3	589.8	587.4
40°	1368.3	831.8	606.8	630.3	639.3	640.2	625.6	607.8	609.7	594.5	594.2
42.5°	1426.7	818.9	585.5	601.0	606.6	608.4	597.3	585.9	601.9	592.0	588.6
45°	1502.0	822.0	567.7	572.3	582.4	591.1	584.3	570.4	576.6	533.7	519.5
47.5°	1589.1	841.8	553.5	547.6	565.1	581.6	571.1	550.0	528.1	485.6	477.5
50°	1690.9	872.3	540.5	523.2	546.4	568.6	558.1	528.1	495.2	474.4	471.7
52.5°	1797.1	909.6	527.6	496.4	522.6	558.7	553.5	523.2	482.5	462.1	458.4
55°	1917.5	947.3	511.1	465.2	496.9	554.1	551.3	505.3	472.9	461.4	458.7
57.5°	2067.1	990.2	489.5	432.8	472.9	537.4	528.8	494.5	463.0	454.4	453.4
60°	2262.2	1053.5	458.4	398.2	443.6	511.8	509.9	478.7	447.2	441.0	439.8
62.5°	2554.9	1158.2	415.5	363.6	410.8	468.3	485.2	457.5	430.6	430.2	430.9
65°	3008.6	1315.5	368.9	333.4	377.8	431.6	456.5	435.5	413.6	419.8	420.8
67.5°	3534.6	1446.1	323.2	303.7	344.2	396.6	430.6	413.6	391.1	407.1	407.4
70°	3709.6	1329.4	283.0	274.4	309.2	363.0	402.5	389.6	366.7	382.7	381.2
72°	3452.2	1073.3	257.1	252.2	283.0	335.2	377.5	367.0	344.5	355.3	351.2
72.5°	3371.0	1023.3	250.6	246.6	276.0	328.1	371.1	361.5	338.9	348.1	344.5
75°	3007.1	888.7	215.5	216.3	240.8	293.6	334.6	331.5	308.4	309.2	308.0
77.5°	2181.1	651.6	181.5	187.7	205.0	258.1	297.9	296.0	270.7	266.0	265.2
80°	1012.1	332.5	147.9	150.6	168.5	215.8	254.0	251.6	231.2	225.4	222.0
82.5°	346.6	158.0	111.1	113.0	130.6	173.8	220.4	218.9	201.9	190.4	183.4
85°	123.8	78.7	77.8	75.9	93.2	136.8	192.0	183.7	158.7	135.2	134.6
87.5°	40.1	33.6	40.1	39.8	54.3	92.6	139.5	118.8	115.2	95.7	93.8
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)