

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: P386347

Luminaire Tested: GAW-SA2A-727-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386347
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-727-U-T4FT
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 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: 8181 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

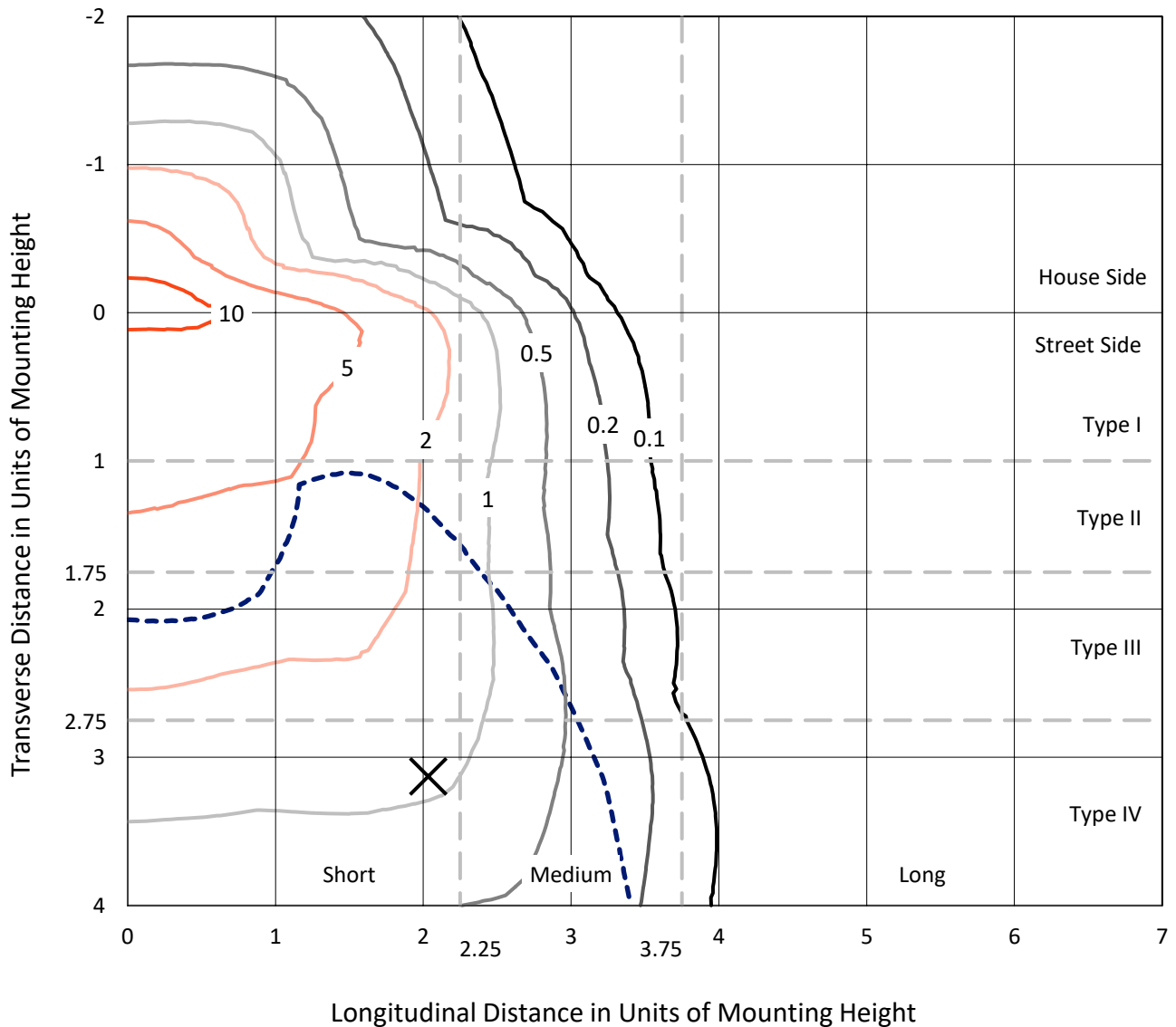
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

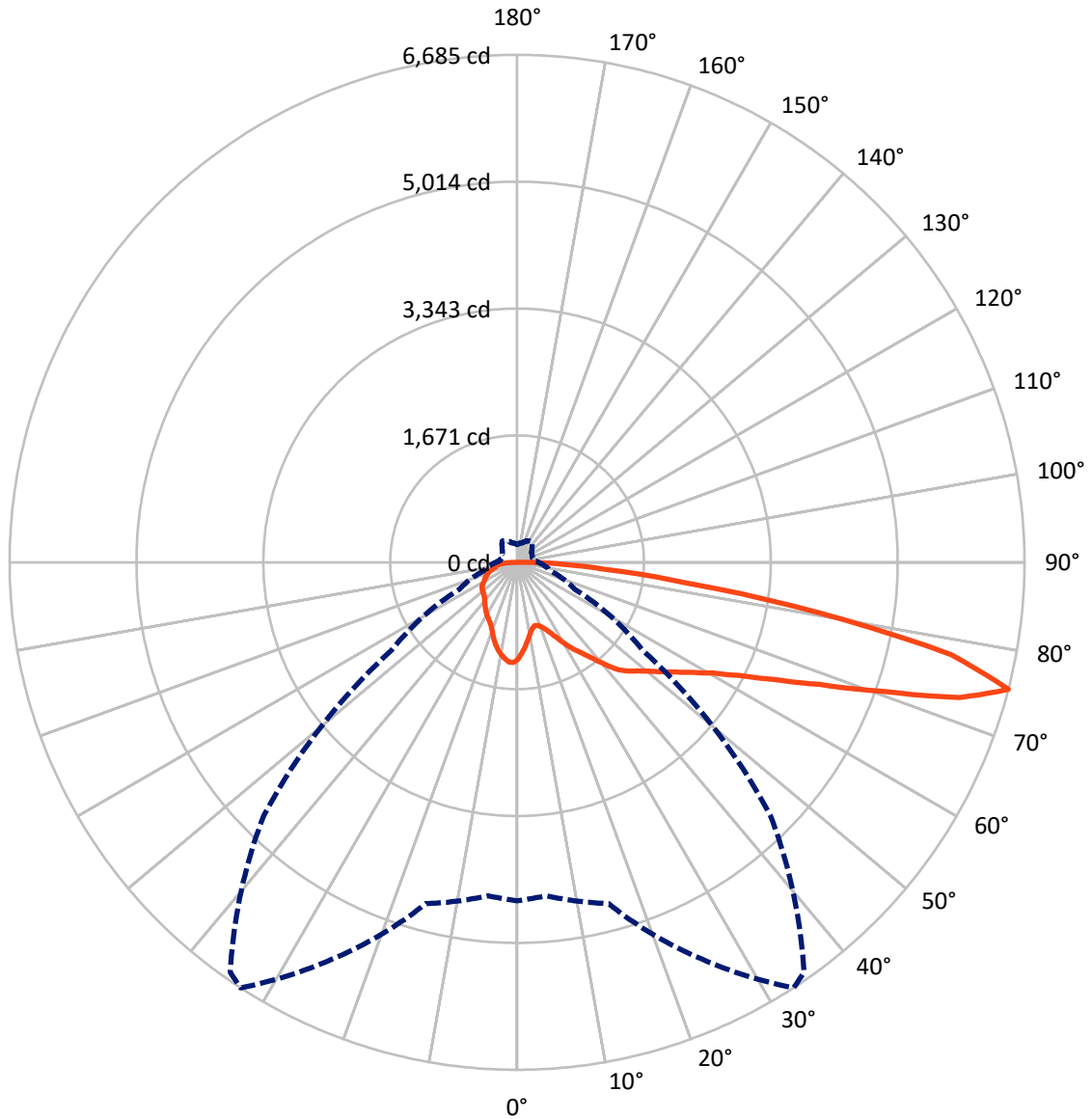
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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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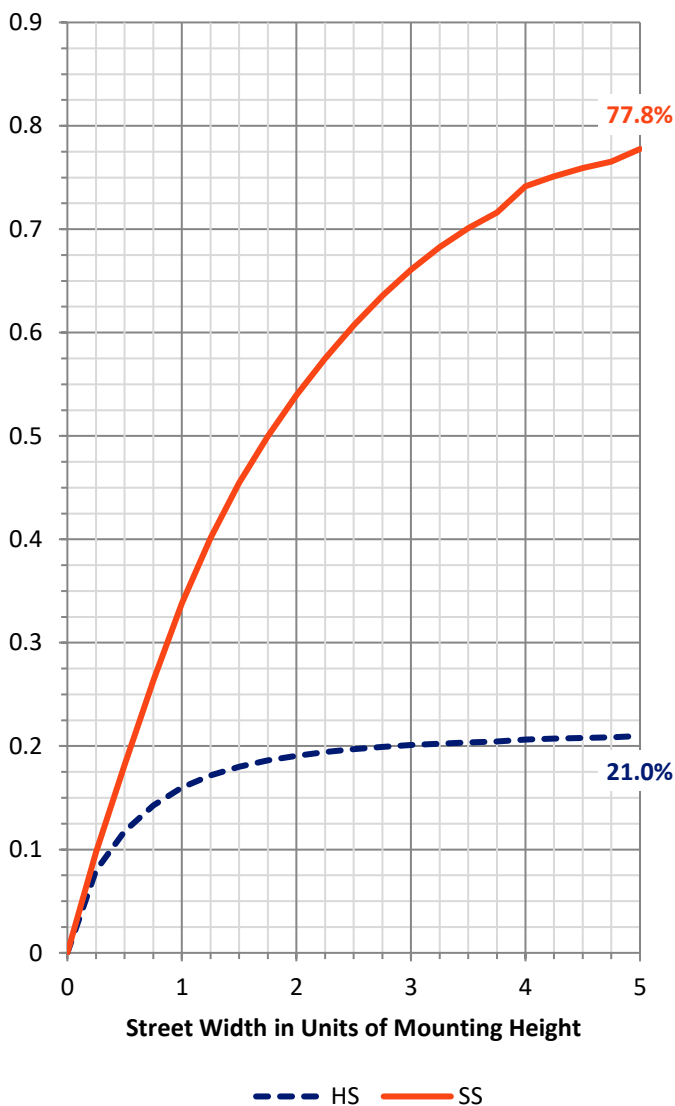
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1756.7	0.0	1756.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6424.3	0.0	6424.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	8181.0	0.0	8181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	1.4
10°-20°	313.2	3.8
20°-30°	511.5	6.3
30°-40°	761.8	9.3
40°-50°	1092.6	13.4
50°-60°	1500.0	18.3
60°-70°	1877.9	23.0
70°-80°	1698.9	20.8
80°-90°	309.5	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°	8181.0	100.0
0°-180°	8181.0	100.0

Coefficient of Utilization



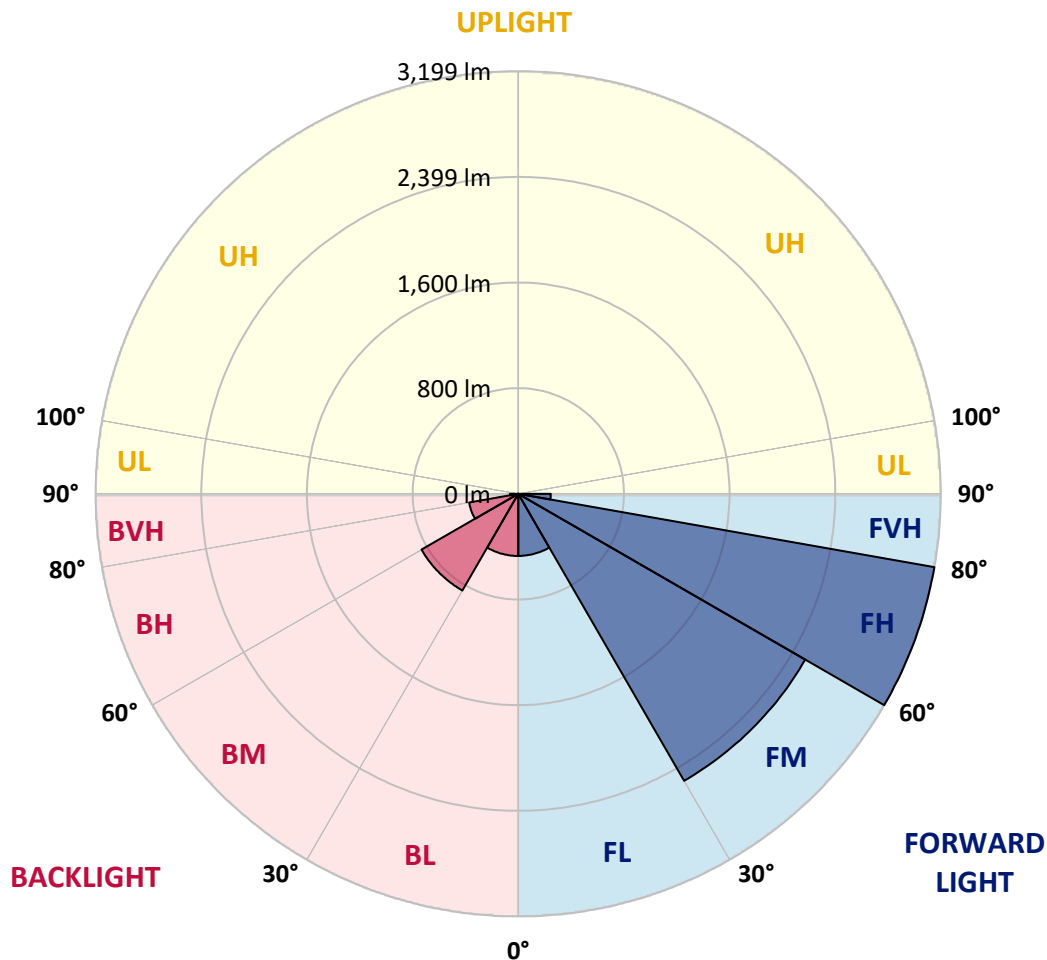
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.9	5.7			
FM (30°-60°)	2508.9	30.7			
FH (60°-80°)	3199.1	39.1			G2/5000
FVH (80°-90°)	246.5	3.0			G3/500
BL (0°-30°)	470.5	5.8	B1/500		
BM (30°-60°)	845.4	10.3	B1/1000		
BH (60°-80°)	377.7	4.6	B1/500		G1/500
BVH (80°-90°)	63.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7
2.5°	1187.5	1182.9	1191.4	1192.5	1199.9	1202.7	1212.9	1228.7	1241.7	1256.7	1270.3
5°	1079.8	1076.7	1088.6	1097.0	1113.1	1119.9	1143.9	1177.6	1207.5	1241.4	1272.2
7.5°	977.5	975.8	989.1	1008.3	1026.9	1036.3	1077.8	1126.7	1176.7	1231.5	1278.7
10°	891.3	890.7	903.5	922.4	949.8	960.3	1013.9	1078.4	1148.5	1223.9	1289.8
12.5°	843.0	845.0	850.9	866.7	892.1	902.6	962.2	1038.0	1124.7	1221.4	1305.9
15°	854.8	858.0	847.8	847.2	865.3	873.5	929.5	1009.1	1107.8	1225.6	1329.3
17.5°	905.4	906.0	879.1	862.2	873.2	877.5	919.3	992.8	1097.9	1235.2	1358.7
20°	976.6	975.2	927.8	899.5	905.4	906.6	933.7	993.0	1097.0	1251.9	1396.9
22.5°	1071.0	1060.6	996.7	958.3	956.9	955.2	970.7	1013.9	1109.5	1279.0	1442.4
25°	1194.2	1184.3	1096.5	1043.9	1032.6	1028.4	1030.6	1058.6	1134.0	1308.1	1493.2
27.5°	1331.3	1314.1	1229.3	1155.0	1131.5	1125.6	1112.0	1121.6	1160.9	1336.1	1553.7
30°	1446.0	1436.7	1362.7	1274.5	1246.8	1238.3	1202.7	1192.3	1199.6	1374.3	1630.0
32.5°	1510.2	1504.0	1459.0	1387.8	1362.1	1350.2	1299.9	1279.0	1261.8	1434.4	1733.4
35°	1587.9	1583.9	1556.8	1505.1	1466.9	1454.5	1415.5	1393.8	1349.4	1517.2	1867.1
37.5°	1686.8	1682.6	1683.1	1641.3	1595.8	1584.2	1558.5	1535.6	1463.0	1626.0	2012.3
40°	1798.7	1790.5	1787.4	1785.4	1756.6	1750.1	1736.5	1705.5	1605.4	1756.0	2155.6
42.5°	1967.1	1938.0	1875.9	1899.3	1927.9	1924.5	1935.5	1890.8	1763.7	1909.8	2295.5
45°	2129.6	2081.9	1974.5	1979.6	2042.0	2061.0	2143.5	2111.8	1935.2	2078.2	2440.2
47.5°	2203.7	2167.5	2076.2	2076.5	2138.4	2177.7	2358.5	2335.9	2115.5	2269.5	2616.8
50°	2286.5	2250.3	2168.3	2199.1	2253.1	2294.9	2566.2	2554.6	2287.0	2478.9	2828.5
52.5°	2376.9	2315.6	2263.6	2318.7	2394.4	2443.0	2774.2	2742.6	2444.4	2689.7	3071.8
55°	2378.0	2361.4	2400.9	2441.3	2554.6	2614.3	2992.1	2908.5	2572.7	2896.9	3269.9
57.5°	2513.4	2486.3	2570.2	2588.8	2736.9	2804.2	3208.9	3052.9	2703.3	3055.7	3376.7
60°	2692.6	2669.4	2738.0	2787.2	2962.4	3052.3	3440.3	3201.2	2805.9	3175.5	3371.6
62.5°	3002.0	2975.7	2974.9	3043.8	3279.8	3384.3	3700.0	3346.8	2846.6	3199.2	3227.8
65°	3455.0	3413.2	3334.3	3367.1	3718.1	3822.4	3990.2	3452.2	2792.9	3072.1	2857.3
67.5°	3895.8	3894.4	3797.5	3864.8	4296.8	4380.5	4320.9	3462.6	2625.3	2629.3	2200.0
70°	4335.3	4340.9	4324.5	4558.5	5078.8	5165.8	4673.0	3322.2	2248.6	1898.7	1318.0
72.5°	4683.4	4682.0	4764.5	5367.9	6093.6	6074.1	4969.7	2896.6	1614.5	1025.0	629.9
75°	4457.9	4408.7	4654.6	5768.6	6685.0	6589.8	4717.3	2020.5	837.9	466.6	339.1
77.5°	2907.6	2954.2	3315.1	4765.4	5847.4	5731.6	3460.9	942.7	394.8	306.0	245.9
80°	1052.9	1102.1	1552.3	2699.3	4028.7	4009.7	1704.3	387.4	267.1	231.2	179.2
82.5°	362.3	380.4	612.4	1198.8	2274.6	2359.4	641.2	220.1	194.1	163.9	122.6
85°	142.1	162.8	280.1	576.8	1147.3	1155.8	259.7	131.7	135.1	107.4	67.3
87.5°	54.0	65.6	133.9	267.9	523.9	481.3	93.0	62.7	76.9	63.9	31.9
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°	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7
2.5°	1280.7	1286.6	1299.1	1307.6	1316.6	1319.1	1320.3	1322.5	1324.8	1324.0	1324.2
5°	1288.6	1300.2	1320.3	1328.8	1332.7	1328.2	1319.4	1312.4	1307.3	1304.5	1303.6
7.5°	1301.6	1318.0	1339.5	1338.1	1329.0	1309.0	1286.4	1269.4	1255.3	1250.2	1247.4
10°	1318.9	1338.1	1353.1	1337.0	1310.7	1275.9	1242.0	1215.7	1194.5	1186.3	1184.9
12.5°	1340.9	1360.4	1363.2	1329.0	1285.5	1238.0	1192.0	1157.2	1125.6	1115.4	1113.1
15°	1369.4	1387.8	1370.3	1315.2	1254.4	1190.6	1130.9	1083.7	1050.4	1038.0	1033.4
17.5°	1399.4	1416.9	1371.7	1292.3	1213.7	1134.3	1059.4	1011.1	973.0	958.6	956.9
20°	1435.3	1443.2	1365.8	1259.5	1157.8	1061.4	982.6	937.1	916.7	906.6	905.4
22.5°	1479.7	1471.2	1352.2	1215.2	1086.9	977.2	913.1	891.9	886.8	884.5	885.4
25°	1526.6	1500.6	1332.1	1157.2	997.3	893.0	862.2	868.1	874.9	874.1	874.1
27.5°	1578.3	1530.5	1301.3	1080.4	898.1	824.0	827.7	849.5	859.6	859.4	859.1
30°	1644.7	1564.4	1262.1	987.9	805.4	775.4	797.8	824.3	838.2	837.6	837.9
32.5°	1726.4	1601.7	1208.7	884.8	738.4	739.5	765.3	791.5	807.7	806.2	806.5
35°	1821.9	1643.6	1136.3	783.1	694.0	711.0	731.4	749.7	765.0	763.0	761.0
37.5°	1925.9	1684.5	1040.2	692.1	657.9	684.4	701.4	704.5	711.6	706.5	702.8
40°	2024.8	1715.9	916.5	617.5	621.4	661.8	672.9	660.4	647.7	646.0	640.9
42.5°	2111.0	1726.4	791.3	557.8	583.0	638.1	644.9	618.9	596.0	585.3	580.7
45°	2202.0	1730.0	674.6	507.8	546.0	616.9	624.2	589.5	557.3	534.1	526.5
47.5°	2320.9	1756.6	583.8	470.8	517.7	602.8	613.2	566.0	524.2	491.1	484.1
50°	2476.7	1809.2	510.1	442.5	499.3	593.4	605.3	543.1	497.1	457.2	450.2
52.5°	2649.6	1857.5	450.5	419.7	481.5	577.1	595.1	526.8	471.6	425.9	418.2
55°	2770.5	1820.5	402.4	395.9	458.4	553.6	581.0	512.9	435.2	395.3	388.6
57.5°	2793.7	1693.9	366.0	371.3	430.4	524.2	559.3	482.1	415.4	382.1	375.0
60°	2730.4	1517.5	338.8	348.7	400.4	487.2	518.6	460.3	396.5	367.9	362.0
62.5°	2571.3	1337.0	318.8	328.4	372.5	449.6	493.1	437.5	377.3	351.8	345.9
65°	2250.0	1122.5	299.5	310.3	346.5	417.1	470.2	416.3	358.3	338.8	333.2
67.5°	1698.4	840.7	281.5	291.1	323.3	388.8	445.4	395.3	340.0	327.5	320.7
70°	1000.1	526.5	260.8	271.0	299.0	359.5	418.8	372.5	317.1	311.4	302.7
72.5°	465.4	316.8	237.4	247.3	268.5	320.2	384.6	342.5	289.9	277.5	265.6
75°	277.8	231.7	209.7	218.4	233.4	278.4	341.7	312.0	264.2	247.8	235.4
77.5°	207.7	177.2	179.2	188.5	200.6	243.6	302.7	288.0	244.4	231.7	223.2
80°	149.5	134.5	146.1	156.3	169.0	221.6	289.9	266.2	221.0	204.0	196.1
82.5°	99.8	96.6	109.9	120.4	132.8	193.9	272.4	233.1	188.8	167.3	149.8
85°	55.1	58.2	74.0	78.6	89.3	136.5	223.2	187.4	142.1	114.5	109.4
87.5°	22.9	26.8	39.8	38.4	47.5	81.4	146.9	113.0	90.4	67.5	52.6
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)