

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: P386787

Luminaire Tested: GAW-SA2C-727-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386787
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-SA2C-727-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12114 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

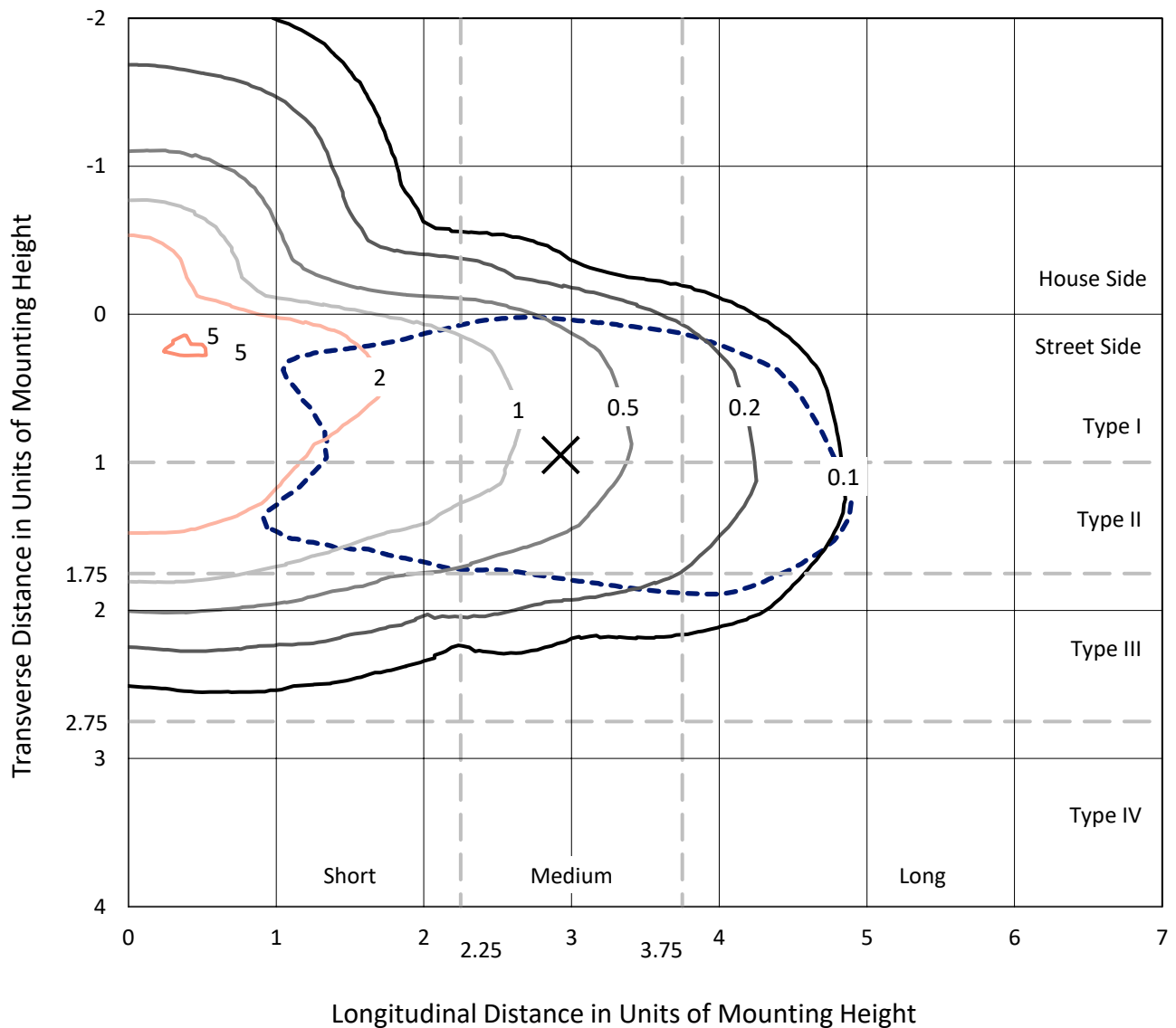
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

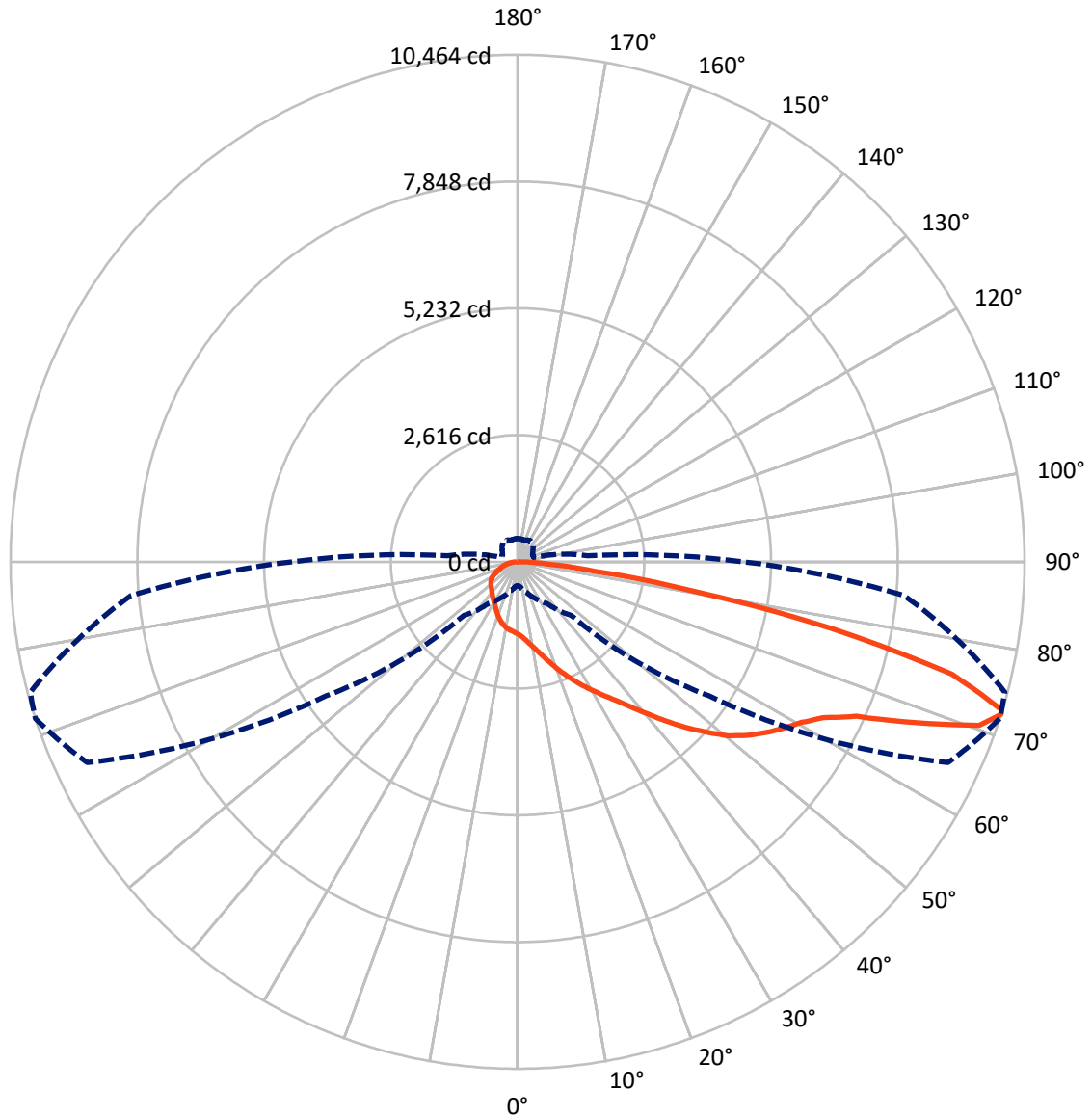
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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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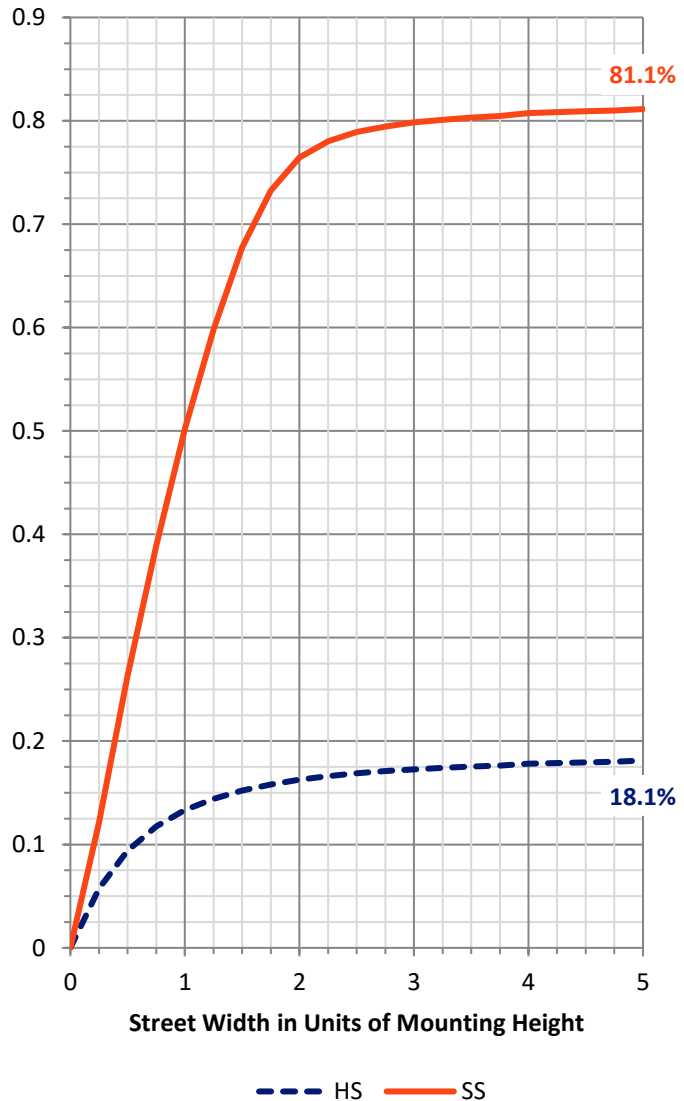
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2247.2	0.0	2247.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9866.8	0.0	9866.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	12114.0	0.0	12114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.2
10°-20°	482.6	4.0
20°-30°	845.6	7.0
30°-40°	1253.8	10.4
40°-50°	1833.8	15.1
50°-60°	2523.3	20.8
60°-70°	2809.2	23.2
70°-80°	1903.5	15.7
80°-90°	312.9	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°	12114.0	100.0
0°-180°	12114.0	100.0

Coefficient of Utilization

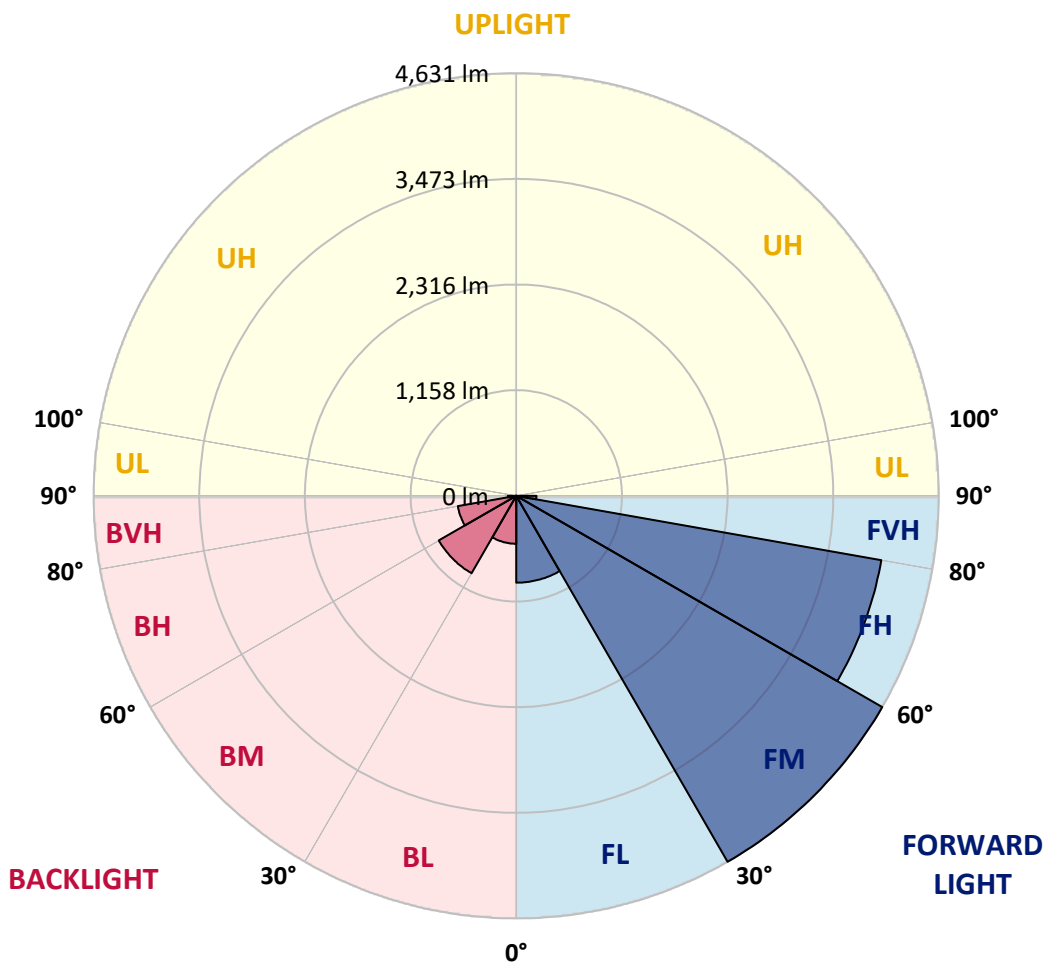


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.2	7.9			
FM (30°-60°)	4631.3	38.2			
FH (60°-80°)	4062.5	33.5			G2/5000
FVH (80°-90°)	220.7	1.8			G2/225
BL (0°-30°)	525.3	4.3	B2/1000		
BM (30°-60°)	979.6	8.1	B1/1000		
BH (60°-80°)	650.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	92.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1646.3	1643.8	1635.1	1635.1	1618.4	1604.2	1577.5	1559.6	1538.3	1530.8	1505.8
5°	1805.7	1806.5	1795.7	1788.2	1763.5	1733.5	1688.0	1646.8	1605.5	1588.8	1537.5
7.5°	1939.6	1937.9	1935.0	1928.7	1905.8	1874.9	1813.6	1752.3	1691.4	1666.4	1577.9
10°	2025.5	2029.2	2031.7	2034.7	2025.1	2003.0	1945.0	1870.3	1790.7	1756.5	1626.3
12.5°	2068.9	2075.5	2087.2	2107.2	2123.1	2120.6	2078.5	1999.2	1904.5	1861.6	1686.8
15°	2094.3	2103.1	2121.4	2157.3	2201.9	2227.4	2216.1	2144.4	2038.8	1985.9	1760.6
17.5°	2110.2	2117.3	2145.6	2193.6	2259.9	2327.5	2357.1	2297.0	2190.7	2130.2	1845.3
20°	2121.0	2126.4	2161.9	2218.2	2304.1	2411.7	2494.3	2479.3	2357.9	2279.5	1933.7
22.5°	2145.2	2149.8	2183.6	2240.3	2335.4	2474.3	2626.5	2649.1	2534.4	2445.5	2028.4
25°	2212.8	2212.8	2241.1	2280.8	2370.0	2528.5	2738.3	2838.0	2714.6	2611.1	2116.0
27.5°	2341.7	2340.4	2350.8	2364.6	2432.2	2583.6	2838.0	3004.9	2901.4	2788.4	2201.1
30°	2494.3	2502.7	2503.9	2497.2	2528.9	2652.4	2930.2	3180.9	3089.5	2967.7	2288.3
32.5°	2690.8	2696.2	2689.9	2667.8	2663.3	2750.0	3020.7	3365.3	3293.1	3155.0	2367.9
35°	2940.2	2929.8	2910.2	2865.1	2822.2	2880.6	3124.2	3549.6	3521.7	3381.5	2477.6
37.5°	3207.6	3208.0	3183.8	3081.6	3022.4	3047.4	3266.8	3758.6	3798.2	3651.0	2618.2
40°	3422.0	3433.2	3448.3	3313.9	3237.2	3271.8	3448.3	4000.9	4125.2	3970.5	2801.3
42.5°	3571.7	3584.7	3627.2	3542.9	3463.3	3527.5	3661.8	4259.5	4492.3	4339.2	3015.7
45°	3730.2	3737.3	3767.3	3731.1	3680.2	3824.9	3902.5	4527.3	4880.6	4732.1	3255.6
47.5°	3897.1	3904.6	3935.4	3911.3	3884.6	4102.7	4153.6	4779.7	5252.7	5163.8	3511.7
50°	4103.1	4108.1	4137.3	4093.5	4101.9	4312.1	4378.0	5011.2	5642.7	5551.7	3768.6
52.5°	4384.3	4385.5	4426.0	4386.3	4347.1	4465.6	4571.1	5229.3	5948.4	5905.5	4025.5
55°	4604.5	4617.8	4750.5	4742.1	4719.6	4604.9	4732.5	5437.0	6221.2	6241.7	4298.3
57.5°	4463.9	4516.1	4784.7	4974.1	5158.4	4951.5	4950.7	5671.0	6474.8	6571.6	4598.2
60°	3909.6	3980.5	4376.3	4796.4	5373.2	5554.7	5403.7	5956.8	6730.9	6898.6	4974.1
62.5°	2792.1	2908.9	3445.3	4116.1	5078.7	5954.3	6325.5	6410.2	7079.2	7277.3	5462.5
65°	1411.5	1499.9	1949.6	2757.5	4057.7	5693.1	7327.4	7402.9	7684.4	7860.5	6214.5
67.5°	857.6	890.9	1110.3	1533.7	2487.7	4434.7	7654.4	9057.6	8855.7	8949.1	7286.9
70°	631.9	656.5	793.3	1018.6	1430.7	2602.4	6650.8	10238.4	10105.8	10095.3	8079.4
72°	492.2	510.1	631.1	823.0	1046.1	1561.2	4820.6	9802.5	10463.6	10411.1	8006.9
72.5°	466.7	482.6	592.7	774.6	988.6	1415.3	4334.2	9508.5	10437.8	10414.0	7913.0
75°	367.5	378.7	438.8	599.0	773.7	802.9	2375.0	7368.7	9259.4	9644.4	7117.2
77.5°	304.1	305.7	337.4	435.9	603.1	567.7	1166.7	5112.5	6630.4	7053.8	5041.6
80°	247.8	249.8	264.9	305.7	456.3	420.0	553.9	2939.8	3712.3	3716.9	2397.6
82.5°	197.3	197.7	214.4	223.6	327.8	300.3	317.4	1380.2	1622.1	1560.4	861.8
85°	138.9	136.0	209.4	183.5	214.4	192.7	175.2	546.4	670.7	641.5	269.9
87.5°	46.3	48.0	93.0	118.9	125.1	109.3	78.0	209.4	253.2	251.1	85.5
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°	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3	1490.3
2.5°	1497.8	1484.5	1464.9	1443.2	1426.1	1408.6	1395.7	1389.0	1381.5	1375.2	1382.7
5°	1513.7	1488.7	1447.0	1406.1	1376.0	1349.4	1330.2	1320.2	1311.0	1304.7	1305.6
7.5°	1539.6	1499.1	1429.0	1369.4	1327.7	1298.9	1279.3	1272.6	1266.8	1265.1	1267.2
10°	1567.1	1507.4	1405.2	1326.0	1278.4	1254.7	1245.9	1250.5	1254.7	1258.4	1262.6
12.5°	1598.4	1514.9	1370.6	1275.1	1234.6	1225.5	1234.2	1254.3	1268.9	1277.6	1283.0
15°	1639.2	1521.6	1330.6	1224.2	1197.1	1207.5	1237.2	1271.8	1297.2	1313.5	1316.0
17.5°	1676.8	1521.2	1279.3	1172.9	1166.7	1197.1	1241.7	1290.5	1324.7	1347.7	1352.3
20°	1715.6	1509.9	1219.6	1122.9	1135.8	1185.8	1243.8	1302.6	1343.9	1370.6	1376.9
22.5°	1751.9	1490.3	1154.1	1077.4	1109.9	1170.8	1235.9	1295.5	1336.8	1358.5	1365.2
25°	1776.5	1456.1	1087.8	1039.0	1087.0	1152.5	1210.0	1258.0	1288.9	1299.7	1301.4
27.5°	1789.0	1411.5	1025.3	1005.7	1063.2	1122.4	1162.1	1185.8	1194.6	1193.8	1192.1
30°	1790.7	1352.7	971.5	978.5	1035.7	1078.2	1097.0	1092.4	1081.2	1062.0	1063.6
32.5°	1785.2	1286.4	926.4	952.7	1000.6	1024.4	1025.3	1003.2	973.1	942.7	934.3
35°	1786.9	1221.3	886.8	923.5	958.1	968.5	958.9	926.4	885.5	846.3	838.0
37.5°	1805.3	1164.6	852.6	889.7	911.0	913.5	899.7	865.5	835.5	797.1	793.8
40°	1849.1	1124.1	820.0	851.7	863.8	865.1	845.5	821.3	823.8	803.4	802.9
42.5°	1927.9	1106.6	791.3	812.1	819.6	822.1	807.1	791.7	813.4	800.0	795.4
45°	2029.7	1110.8	767.1	773.3	787.1	798.8	789.6	770.8	779.2	721.2	702.0
47.5°	2147.3	1137.5	747.9	740.0	763.7	785.8	771.7	743.3	713.7	656.1	645.3
50°	2284.9	1178.8	730.4	707.0	738.3	768.3	754.1	713.7	669.0	641.1	637.3
52.5°	2428.4	1229.2	712.8	670.7	706.2	755.0	747.9	707.0	651.9	624.4	619.4
55°	2591.1	1280.1	690.7	628.6	671.5	748.7	745.0	682.8	639.0	623.6	619.8
57.5°	2793.4	1338.1	661.5	584.8	639.0	726.2	714.5	668.2	625.7	614.0	612.7
60°	3057.0	1423.6	619.4	538.1	599.4	691.6	689.1	646.9	604.4	596.1	594.4
62.5°	3452.4	1565.0	561.4	491.4	555.2	632.8	655.7	618.2	581.9	581.5	582.3
65°	4065.6	1777.7	498.4	450.5	510.5	583.1	616.9	588.5	558.9	567.3	568.5
67.5°	4776.3	1954.2	436.7	410.4	465.1	536.0	581.9	558.9	528.5	550.2	550.6
70°	5012.8	1796.5	382.5	370.8	417.9	490.5	543.9	526.4	495.5	517.2	515.1
72°	4665.0	1450.3	347.5	340.8	382.5	453.0	510.1	495.9	465.5	480.1	474.7
72.5°	4555.3	1382.7	338.7	333.3	372.9	443.4	501.4	488.4	458.0	470.5	465.5
75°	4063.5	1200.9	291.1	292.4	325.3	396.7	452.1	448.0	416.7	417.9	416.3
77.5°	2947.3	880.5	245.3	253.6	277.0	348.7	402.5	400.0	365.8	359.5	358.3
80°	1367.7	449.2	199.8	203.6	227.7	291.6	343.3	339.9	312.4	304.5	299.9
82.5°	468.4	213.6	150.2	152.7	176.4	234.8	297.8	295.7	272.8	257.4	247.8
85°	167.3	106.4	105.1	102.6	126.0	184.8	259.4	248.2	214.4	182.7	181.9
87.5°	54.2	45.5	54.2	53.8	73.4	125.1	188.5	160.6	155.6	129.3	126.8
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)