

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: P386399

Luminaire Tested: GAW-SA2A-735-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386399
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-SA2A-735-U-T3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9139.4 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

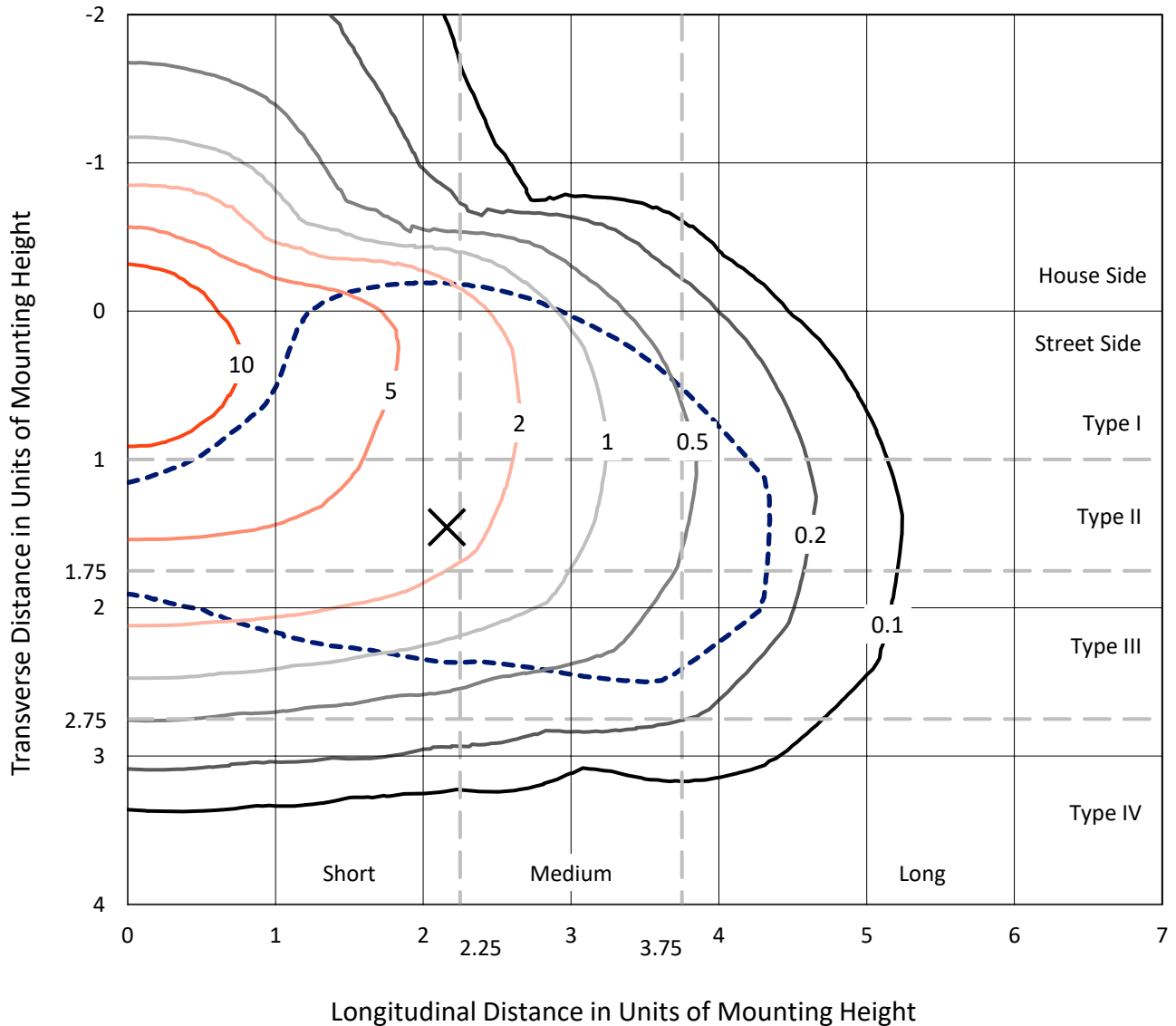
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

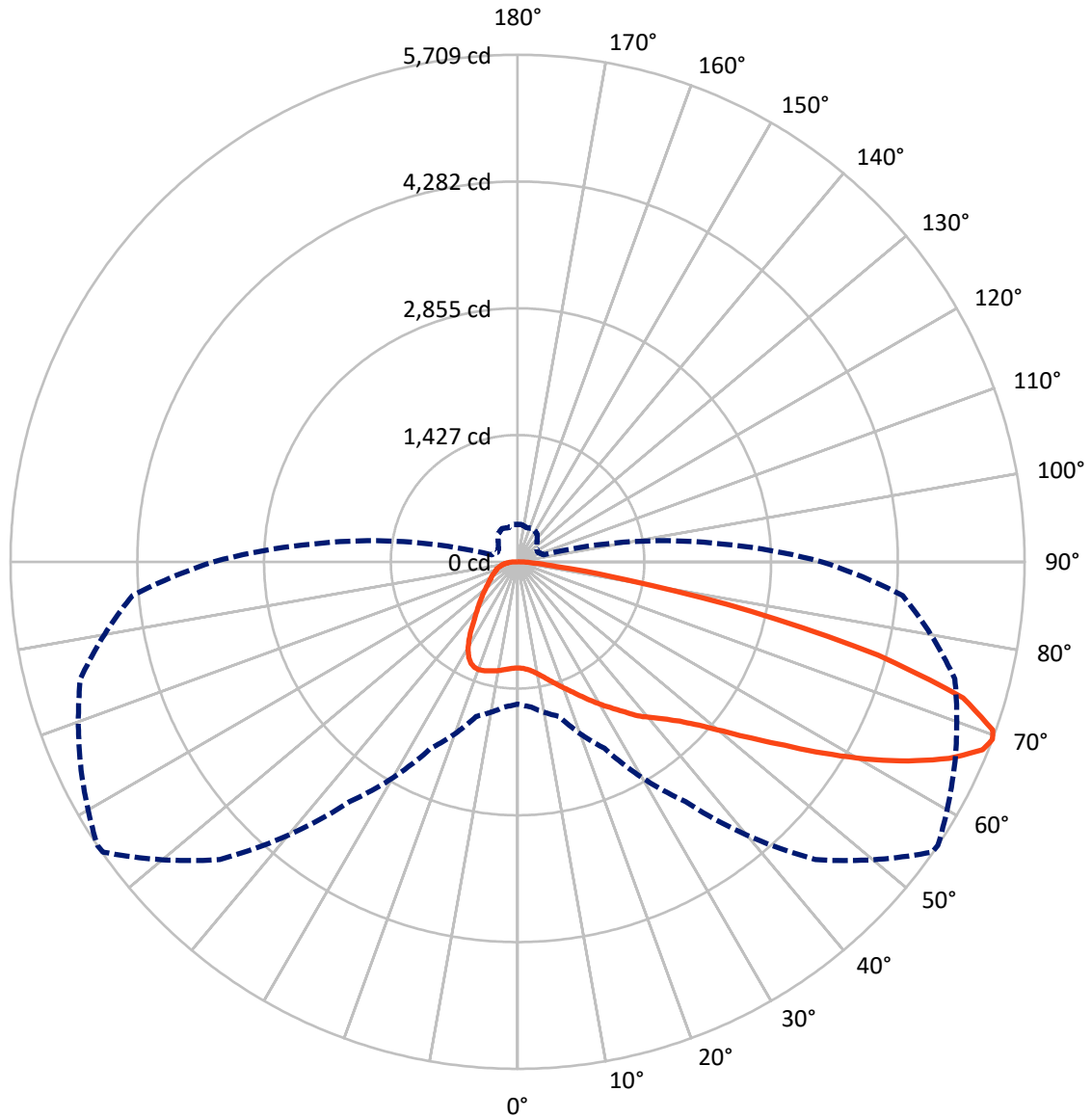
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 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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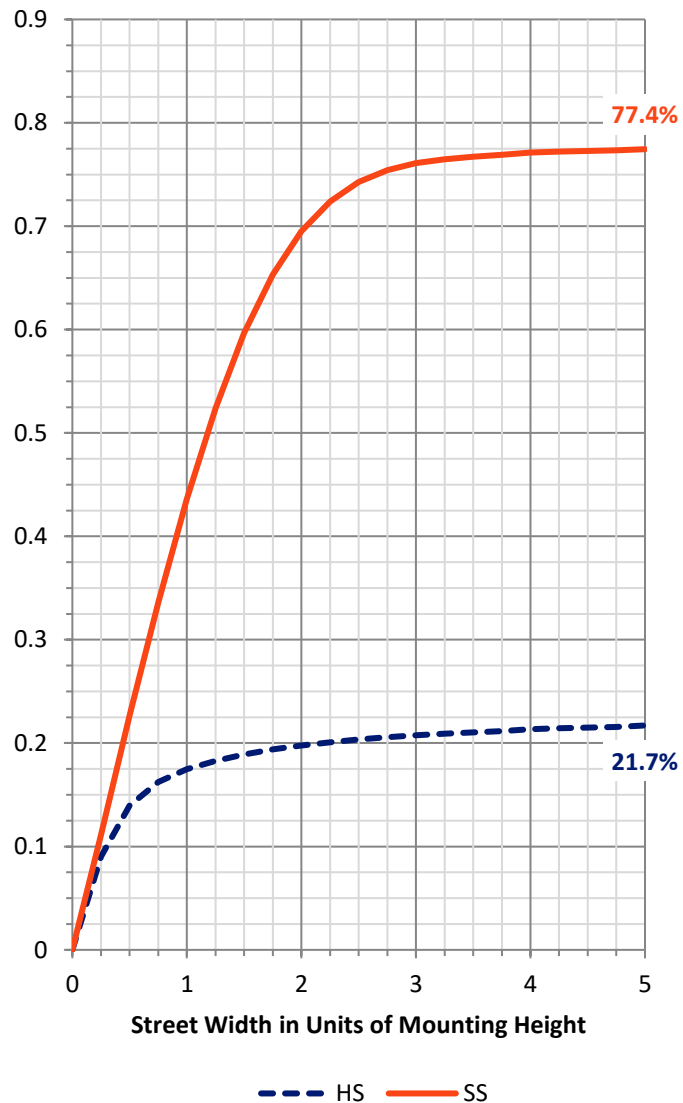
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.3	0.0	2035.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	7104.0	0.0	7104.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	9139.4	0.0	9139.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	1.3
10°-20°	377.4	4.1
20°-30°	658.7	7.2
30°-40°	946.2	10.4
40°-50°	1309.5	14.3
50°-60°	1918.6	21.0
60°-70°	2339.2	25.6
70°-80°	1293.3	14.2
80°-90°	179.1	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°	9139.4	100.0
0°-180°	9139.4	100.0

Coefficient of Utilization

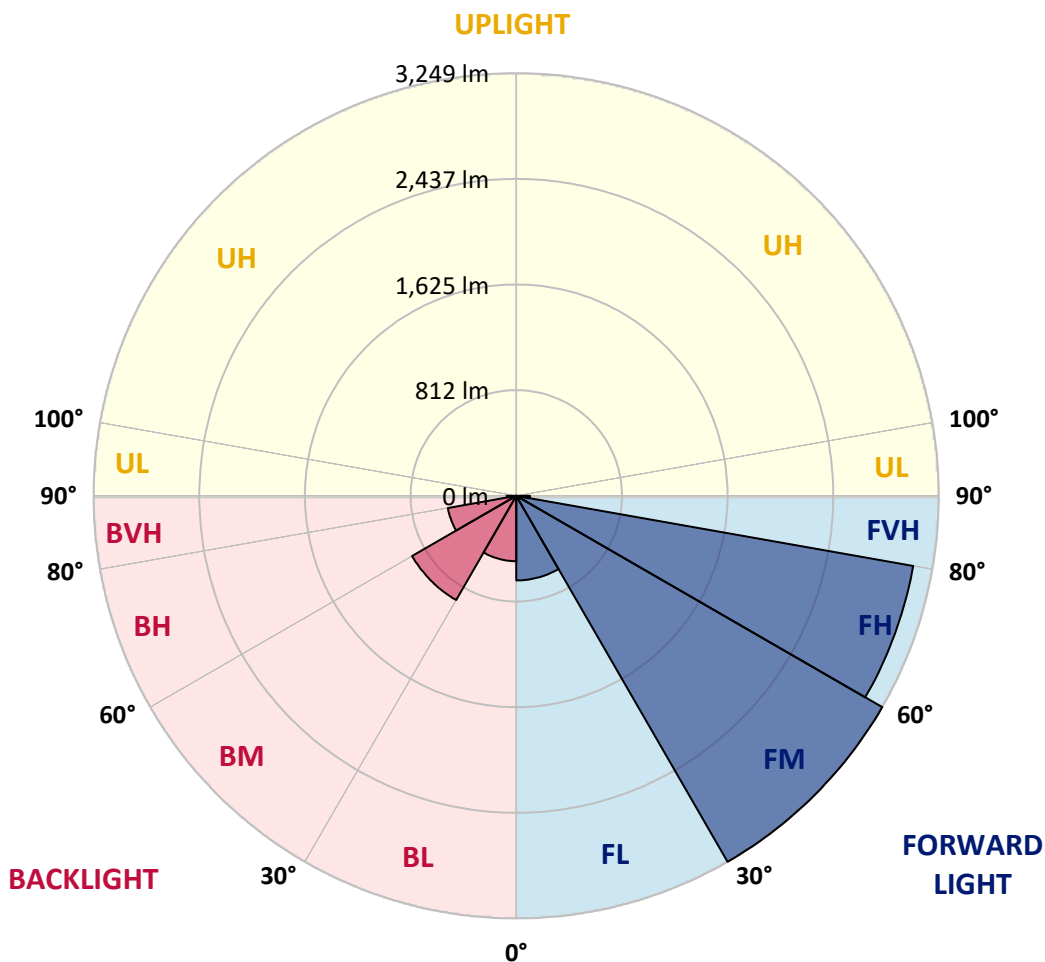


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	650.5	7.1			
FM (30°-60°)	3249.4	35.6			
FH (60°-80°)	3098.7	33.9			G2/5000
FVH (80°-90°)	105.5	1.2			G2/225
BL (0°-30°)	503.0	5.5	B2/1000		
BM (30°-60°)	925.0	10.1	B1/1000		
BH (60°-80°)	533.7	5.8	B2/1000		G2/1000
BVH (80°-90°)	73.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8
2.5°	1202.4	1203.6	1202.7	1205.2	1202.4	1204.3	1202.7	1202.7	1201.8	1198.9	1195.8
5°	1221.3	1223.8	1222.2	1224.8	1221.3	1221.9	1219.1	1219.1	1216.2	1210.2	1203.9
7.5°	1250.9	1253.7	1252.5	1254.9	1250.2	1250.2	1246.5	1246.2	1240.5	1230.7	1223.5
10°	1286.1	1289.9	1288.7	1292.4	1288.7	1289.9	1286.1	1286.1	1278.6	1264.7	1255.6
12.5°	1337.4	1342.2	1338.7	1338.4	1336.9	1339.4	1336.2	1335.5	1328.7	1309.8	1297.1
15°	1406.1	1411.2	1403.9	1403.3	1394.4	1393.5	1393.5	1392.6	1388.1	1365.5	1344.7
17.5°	1485.1	1486.7	1480.4	1470.3	1459.0	1451.7	1450.8	1453.3	1453.3	1426.8	1393.8
20°	1562.6	1565.4	1560.3	1549.1	1534.6	1523.9	1516.3	1521.3	1521.0	1489.5	1442.6
22.5°	1646.9	1653.5	1646.0	1631.5	1614.5	1602.5	1589.4	1593.8	1594.1	1555.4	1490.4
25°	1756.2	1750.2	1745.5	1725.0	1700.8	1688.5	1676.3	1680.7	1679.4	1626.2	1539.9
27.5°	1852.9	1854.1	1847.8	1826.1	1798.1	1771.0	1770.4	1773.2	1768.5	1699.8	1586.5
30°	1965.2	1965.9	1957.0	1937.6	1907.0	1872.0	1863.9	1868.6	1858.5	1769.7	1635.6
32.5°	2077.0	2080.2	2070.4	2046.8	2022.2	1979.8	1963.3	1966.5	1941.4	1841.2	1686.3
35°	2175.0	2179.4	2176.2	2160.4	2133.7	2097.2	2077.7	2075.8	2044.6	1928.8	1753.4
37.5°	2274.7	2278.9	2275.4	2262.2	2251.4	2212.7	2202.3	2202.3	2148.2	2018.2	1838.7
40°	2377.4	2383.7	2379.6	2361.4	2352.2	2334.6	2309.7	2303.7	2245.2	2125.5	1977.9
42.5°	2472.8	2480.9	2497.4	2486.7	2468.1	2470.6	2420.5	2417.3	2374.6	2284.2	2152.6
45°	2608.1	2620.2	2647.9	2639.7	2635.8	2622.0	2562.5	2559.7	2543.3	2497.7	2369.5
47.5°	2755.8	2772.2	2822.2	2823.8	2864.5	2838.3	2757.4	2747.6	2751.4	2753.3	2634.3
50°	2891.8	2909.8	2992.0	3030.7	3126.4	3132.0	3002.7	2993.8	3008.7	3052.1	2942.8
52.5°	3000.4	3023.2	3125.7	3245.4	3409.4	3456.0	3304.6	3298.0	3309.0	3384.0	3291.7
55°	3080.1	3104.7	3216.5	3434.3	3696.2	3778.4	3652.2	3645.9	3652.8	3748.2	3671.1
57.5°	3098.7	3104.7	3266.8	3561.5	3938.4	4135.8	4077.5	4064.9	4030.9	4114.1	4089.8
60°	3011.5	3035.4	3225.2	3606.2	4125.7	4488.1	4522.1	4506.4	4410.9	4478.9	4459.5
62.5°	2834.5	2877.4	3070.0	3538.2	4199.1	4775.9	4958.2	4939.2	4774.9	4819.0	4725.2
65°	2545.5	2563.8	2766.2	3303.7	4105.9	4960.1	5347.0	5337.5	5130.7	5061.7	4774.3
67.5°	2028.5	2062.8	2234.7	2813.5	3724.6	4938.3	5647.6	5646.7	5363.1	5151.8	4600.2
69°	1602.5	1638.1	1801.9	2317.6	3295.8	4739.7	5698.1	5709.1	5428.6	5097.1	4351.5
70°	1277.7	1318.9	1431.3	1952.1	2915.1	4477.7	5656.2	5676.0	5416.0	5006.7	4122.0
72.5°	543.7	577.1	657.1	1006.3	1776.7	3343.7	5171.6	5246.6	5124.1	4582.3	3406.6
75°	237.4	247.8	284.0	410.2	788.7	1819.8	4051.4	4190.0	4381.3	3873.2	2537.7
77.5°	173.8	178.2	198.0	240.9	353.9	687.3	2605.3	2685.9	3159.7	2818.5	1556.6
80°	134.4	137.6	153.0	177.0	231.1	278.0	1188.2	1257.5	1776.7	1447.7	648.3
82.5°	107.1	109.3	120.0	130.4	159.6	168.4	394.5	437.7	655.8	399.8	171.6
85°	99.5	102.0	105.8	95.1	102.3	98.8	170.7	178.5	198.0	157.1	71.8
87.5°	45.0	53.2	104.8	74.0	54.5	43.5	69.9	73.1	82.2	82.5	31.8
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°	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8
2.5°	1197.6	1196.7	1198.3	1194.5	1199.2	1198.9	1197.4	1198.0	1201.1	1200.8	1201.1
5°	1204.9	1204.3	1206.2	1203.4	1209.0	1210.9	1211.2	1214.1	1217.5	1218.5	1218.5
7.5°	1223.2	1223.2	1224.1	1220.4	1224.1	1223.8	1222.2	1225.1	1228.5	1228.8	1228.5
10°	1254.7	1254.9	1253.4	1243.7	1240.5	1232.0	1224.1	1224.4	1228.8	1232.3	1233.2
12.5°	1294.3	1293.1	1286.1	1268.2	1254.9	1237.7	1229.5	1229.2	1233.5	1236.4	1237.4
15°	1339.7	1336.2	1318.3	1288.9	1265.6	1248.6	1235.5	1232.3	1229.8	1226.7	1226.9
17.5°	1382.5	1374.6	1344.7	1304.1	1279.5	1256.8	1231.4	1210.9	1196.7	1188.5	1186.0
20°	1425.9	1410.5	1367.4	1318.3	1287.1	1245.8	1196.7	1155.2	1129.3	1117.4	1115.2
22.5°	1465.6	1440.7	1388.4	1333.1	1281.1	1208.7	1131.6	1071.1	1035.2	1019.1	1020.4
25°	1504.3	1469.7	1410.5	1343.4	1250.9	1143.2	1040.8	966.5	925.0	907.1	906.4
27.5°	1538.4	1499.0	1434.5	1335.0	1194.5	1050.0	933.5	861.1	826.5	811.1	808.5
30°	1577.3	1535.8	1466.2	1302.5	1112.1	942.3	828.6	777.6	753.1	737.7	734.9
32.5°	1624.9	1585.9	1492.3	1243.7	1006.6	830.0	746.8	711.2	688.9	671.6	668.4
35°	1694.2	1652.0	1499.0	1159.2	890.7	741.2	686.7	650.2	619.9	597.5	595.4
37.5°	1781.1	1734.8	1483.9	1050.0	778.3	683.5	636.6	591.6	552.3	520.7	515.7
40°	1906.4	1836.5	1442.0	924.1	695.5	639.2	587.8	536.5	487.7	450.8	443.6
42.5°	2056.9	1955.8	1377.7	798.8	634.7	594.1	539.3	475.7	429.1	403.0	399.2
45°	2248.3	2079.8	1288.7	689.2	574.9	549.1	487.1	428.5	399.5	380.4	377.2
47.5°	2466.8	2219.0	1195.2	600.1	524.2	506.9	445.2	407.4	384.4	369.3	366.5
50°	2735.3	2376.1	1096.0	527.1	473.2	456.2	425.4	395.8	377.5	365.9	363.0
52.5°	3038.3	2553.4	1024.5	469.4	431.0	418.8	414.9	389.5	374.6	365.9	363.0
55°	3364.4	2733.8	947.4	420.9	394.5	397.9	408.1	390.1	380.0	369.3	365.2
57.5°	3690.9	2920.2	861.4	380.0	365.5	382.5	403.3	391.4	382.9	372.5	368.7
60°	3949.1	3038.3	728.2	345.7	342.6	365.5	392.0	381.9	370.9	371.2	370.6
62.5°	4069.6	3032.0	581.2	315.2	319.6	342.6	373.7	367.1	358.0	370.2	371.2
65°	4002.0	2880.8	452.4	287.5	295.0	318.6	354.8	359.9	363.0	386.7	389.8
67.5°	3718.0	2586.7	350.4	263.2	272.6	302.3	356.7	392.0	396.0	420.9	420.7
69°	3424.3	2311.0	304.5	250.6	261.6	306.3	381.3	412.5	397.0	423.5	419.7
70°	3178.1	2092.8	279.9	242.1	256.6	313.6	397.6	412.1	392.3	414.9	408.6
72.5°	2447.6	1505.6	237.4	226.4	239.6	300.0	402.3	403.0	381.3	385.7	375.0
75°	1678.8	951.4	207.1	205.0	213.8	270.5	387.2	385.1	352.6	346.4	337.5
77.5°	925.7	483.3	176.0	184.5	190.5	239.6	352.0	348.9	322.1	308.9	305.7
80°	357.1	211.6	148.6	164.0	167.8	207.5	308.6	305.7	283.3	266.3	261.6
82.5°	134.7	110.8	122.8	142.0	140.7	171.3	261.3	259.7	238.0	213.1	205.6
85°	62.4	66.4	97.3	117.1	108.0	126.9	209.0	211.9	185.4	155.8	155.8
87.5°	26.5	37.1	69.0	88.5	72.7	85.7	153.3	146.4	134.4	93.2	87.6
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)