

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317775

Luminaire Tested: **GAN-SA1D-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8306 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

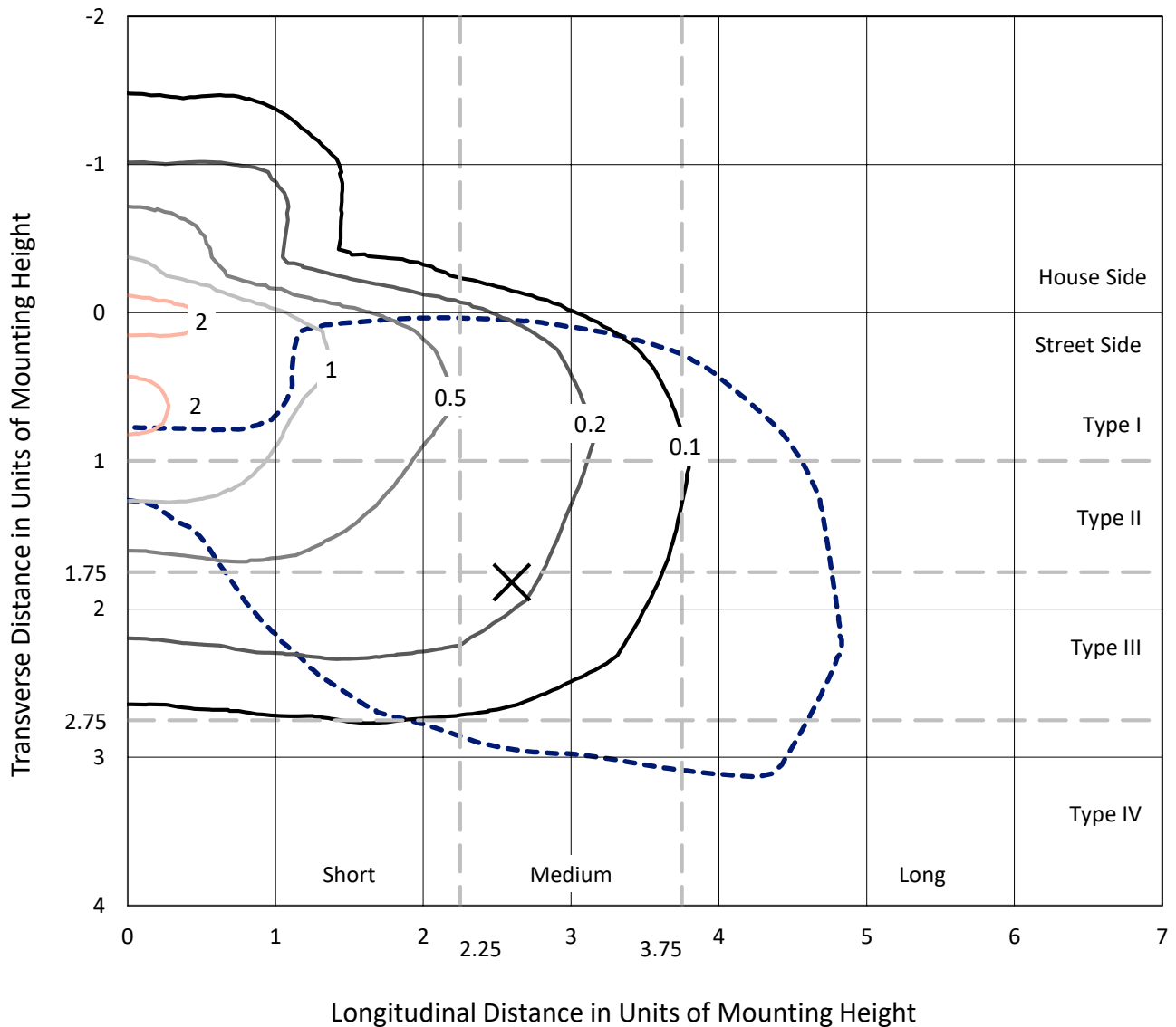
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

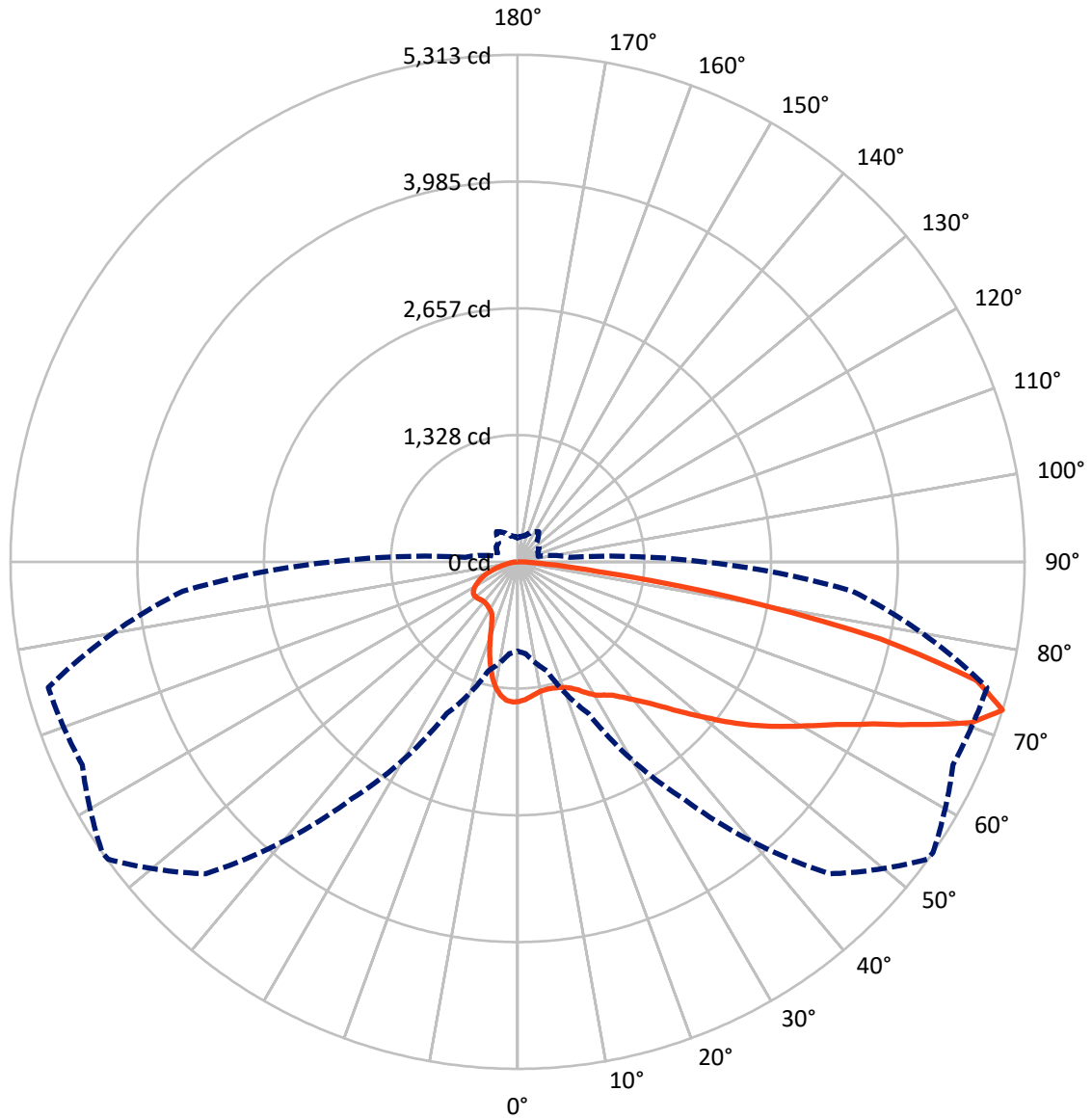
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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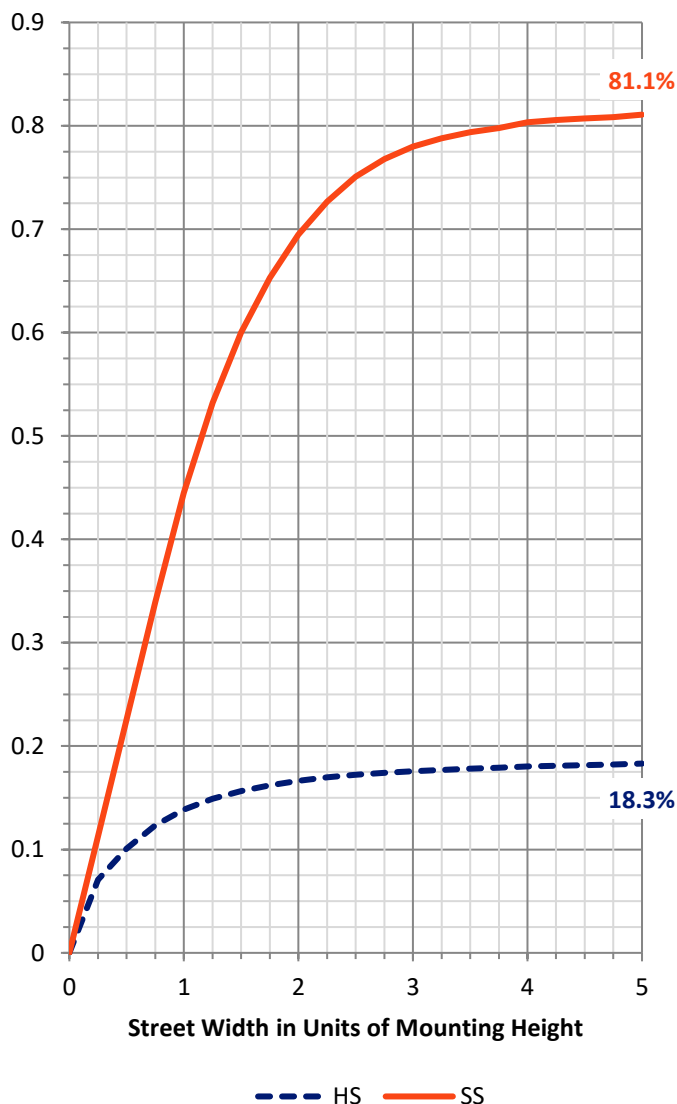
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1543.8	0.0	1543.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6762.2	0.0	6762.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	8306.0	0.0	8306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.6
10°-20°	352.9	4.2
20°-30°	581.9	7.0
30°-40°	860.8	10.4
40°-50°	1201.5	14.5
50°-60°	1564.4	18.8
60°-70°	1922.6	23.1
70°-80°	1507.0	18.1
80°-90°	182.4	2.2
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°	8306.0	100.0
0°-180°	8306.0	100.0

Coefficient of Utilization

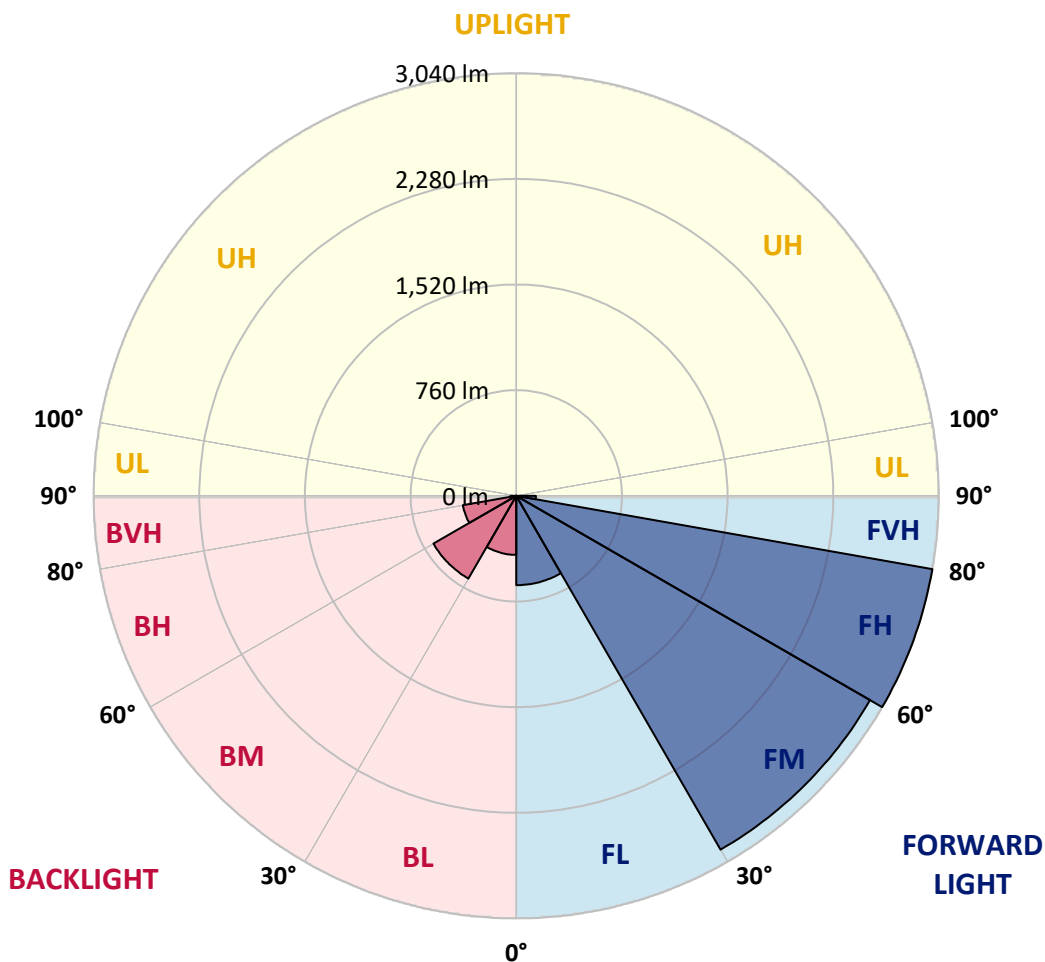


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.6	7.7			
FM (30°-60°)	2938.8	35.4			
FH (60°-80°)	3039.7	36.6			G2/5000
FVH (80°-90°)	141.0	1.7			G2/225
BL (0°-30°)	424.8	5.1	B1/500		
BM (30°-60°)	687.8	8.3	B1/1000		
BH (60°-80°)	389.9	4.7	B1/500		G1/500
BVH (80°-90°)	41.4	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1417.3	1413.9	1418.1	1424.0	1430.5	1439.2	1444.2	1446.5	1455.2	1458.5	1465.8
5°	1351.7	1350.0	1357.0	1367.1	1381.4	1401.6	1417.9	1421.0	1444.0	1460.2	1475.1
7.5°	1304.0	1304.0	1312.1	1324.2	1340.2	1367.4	1390.4	1394.6	1433.6	1468.6	1496.1
10°	1266.1	1267.5	1277.0	1291.3	1310.1	1339.0	1369.6	1374.4	1430.8	1488.3	1532.0
12.5°	1240.8	1244.2	1252.9	1265.8	1289.1	1324.2	1362.9	1369.3	1436.7	1516.3	1575.3
15°	1256.8	1262.4	1263.3	1268.6	1281.5	1319.7	1366.8	1373.5	1449.3	1545.0	1624.3
17.5°	1327.0	1328.9	1320.2	1309.0	1302.8	1327.3	1378.6	1385.6	1464.4	1573.3	1671.5
20°	1433.6	1432.5	1413.7	1383.4	1351.9	1355.9	1397.9	1405.2	1484.9	1598.3	1718.6
22.5°	1568.2	1564.3	1535.4	1479.6	1426.0	1403.6	1431.9	1438.1	1515.8	1633.9	1769.1
25°	1731.5	1722.8	1684.7	1609.8	1530.9	1473.1	1483.0	1488.8	1560.7	1673.7	1815.4
27.5°	1903.8	1895.1	1846.5	1755.9	1651.0	1560.9	1553.4	1558.4	1611.7	1703.2	1849.6
30°	2083.9	2074.6	2030.3	1928.7	1778.4	1651.8	1619.0	1621.0	1647.6	1719.2	1877.7
32.5°	2264.8	2256.1	2206.5	2088.6	1916.7	1749.5	1666.4	1663.9	1669.2	1735.7	1909.4
35°	2448.3	2451.7	2393.6	2263.1	2069.9	1858.0	1722.5	1717.2	1705.4	1769.7	1954.3
37.5°	2644.7	2642.4	2567.3	2430.9	2230.0	1975.9	1803.1	1802.2	1761.5	1833.9	2024.7
40°	2776.0	2777.4	2731.7	2602.6	2391.9	2106.3	1906.3	1904.3	1851.0	1930.1	2117.0
42.5°	2827.3	2836.6	2848.4	2766.4	2561.4	2257.5	2029.5	2026.6	1975.9	2068.2	2225.6
45°	2831.0	2849.5	2922.4	2912.0	2733.1	2430.6	2186.8	2179.0	2142.5	2251.6	2355.2
47.5°	2799.5	2818.6	2939.8	2998.7	2886.5	2613.3	2370.9	2364.7	2333.3	2481.1	2495.4
50°	2730.8	2749.0	2903.9	3041.1	3012.8	2788.9	2583.0	2566.7	2549.9	2746.2	2655.9
52.5°	2602.0	2637.1	2855.9	3051.2	3088.2	2944.9	2806.0	2795.3	2804.6	3025.9	2816.7
55°	2297.1	2336.4	2732.2	3042.8	3144.1	3075.9	3029.0	3028.5	3076.4	3319.4	2989.2
57.5°	2126.2	2154.0	2480.3	3028.5	3210.3	3206.1	3249.8	3255.1	3348.6	3638.9	3169.9
60°	2029.7	2058.9	2352.6	2975.4	3312.9	3374.4	3475.1	3485.8	3625.2	3992.7	3387.3
62.5°	1941.9	1973.9	2273.5	2867.4	3433.9	3615.1	3745.0	3754.5	3918.1	4356.3	3597.4
65°	1791.8	1828.0	2157.7	2796.5	3543.8	3929.0	4088.1	4094.5	4254.4	4737.3	3758.2
67.5°	1579.7	1612.8	1939.1	2639.6	3625.2	4310.3	4544.2	4547.9	4588.0	5006.3	3840.4
70°	1332.0	1344.6	1627.7	2315.9	3529.0	4666.8	5044.2	5045.0	4892.1	5178.6	3826.9
72.5°	935.9	965.6	1181.7	1753.1	3032.7	4623.4	5303.7	5313.2	5033.5	5091.6	3521.1
75°	574.0	605.4	741.2	1062.4	1924.0	3636.1	4900.3	4966.5	4768.4	4539.8	2876.4
77.5°	383.8	395.6	483.7	619.4	871.6	2092.0	3767.4	3892.0	3961.3	3310.7	1839.5
80°	214.1	236.5	320.7	384.9	387.7	831.3	2258.9	2288.1	2204.0	1318.3	567.5
82.5°	113.3	125.7	214.1	226.1	211.5	278.3	841.9	842.8	704.2	353.5	168.6
85°	87.8	98.2	146.7	138.0	108.0	123.4	277.7	292.9	239.6	144.8	55.0
87.5°	43.8	54.4	99.6	87.5	42.4	35.3	99.3	106.0	94.5	56.7	19.9
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°	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0	1465.0
2.5°	1468.6	1471.2	1474.3	1470.9	1469.8	1465.3	1457.7	1456.0	1452.1	1452.4	1454.6
5°	1481.6	1485.8	1484.1	1471.2	1455.7	1434.1	1411.7	1392.6	1380.0	1379.2	1378.3
7.5°	1506.2	1509.0	1495.9	1459.1	1415.9	1366.0	1318.8	1277.6	1252.6	1246.5	1245.1
10°	1545.0	1544.4	1508.2	1434.1	1348.0	1258.8	1183.1	1125.8	1092.4	1082.6	1080.1
12.5°	1588.2	1581.7	1512.4	1388.7	1252.1	1128.3	1032.4	968.7	933.9	922.7	919.9
15°	1632.8	1616.8	1502.0	1320.8	1134.2	987.8	887.1	828.2	809.4	803.2	802.1
17.5°	1674.3	1643.4	1472.3	1228.8	999.9	847.8	769.3	745.7	750.2	758.3	758.6
20°	1715.0	1661.4	1424.6	1112.6	858.2	732.5	705.8	723.2	744.6	761.1	763.4
22.5°	1755.1	1674.0	1363.2	978.5	731.4	667.7	686.5	718.2	742.6	760.6	763.6
25°	1788.7	1677.1	1278.4	835.5	643.3	643.3	677.2	707.3	731.4	749.1	752.1
27.5°	1801.1	1656.3	1158.9	703.0	599.0	632.1	664.3	689.3	709.8	728.6	731.9
30°	1805.9	1617.9	1020.9	596.7	580.7	620.0	646.9	668.3	687.6	705.3	708.4
32.5°	1806.7	1571.6	874.5	536.4	568.1	607.4	625.3	644.1	664.9	671.9	673.0
35°	1812.0	1516.9	720.2	505.5	556.3	595.6	609.9	623.4	589.7	592.2	594.5
37.5°	1827.5	1462.8	591.1	488.1	548.7	589.4	606.5	557.7	531.3	525.2	524.3
40°	1856.4	1405.0	495.4	474.1	545.9	592.5	584.9	520.7	475.2	441.3	436.2
42.5°	1896.5	1342.7	434.3	464.9	547.9	607.4	554.9	485.1	409.6	387.7	384.9
45°	1941.6	1277.3	401.2	458.4	554.6	618.9	548.7	437.6	379.0	362.5	361.1
47.5°	1985.4	1197.4	384.1	455.6	563.9	609.6	522.7	423.1	364.4	355.7	356.6
50°	2035.6	1125.3	373.7	452.5	572.0	603.7	493.2	415.5	358.8	369.5	380.7
52.5°	2078.0	1050.6	364.4	446.3	575.1	593.4	485.6	416.9	358.8	379.3	390.0
55°	2128.2	994.2	353.8	433.4	569.2	563.9	480.3	425.3	363.0	350.1	351.2
57.5°	2193.0	975.7	342.0	413.2	549.6	521.0	477.8	433.4	360.5	352.4	355.2
60°	2282.8	995.4	337.2	386.9	519.0	487.3	478.0	429.2	342.8	328.8	329.1
62.5°	2368.4	1017.3	336.9	370.3	481.4	457.3	471.6	415.5	333.8	325.7	328.8
65°	2396.4	995.1	323.5	351.8	439.1	421.4	459.8	400.9	327.1	314.8	314.2
67.5°	2358.8	926.4	296.3	321.8	390.5	379.6	444.4	383.5	316.5	306.4	304.7
70°	2247.2	772.9	262.6	282.2	335.2	332.4	420.0	363.3	302.1	293.4	286.2
72.5°	1946.7	550.7	221.3	234.8	273.0	281.9	386.3	336.9	281.9	263.2	251.9
75°	1598.8	407.6	181.8	184.6	207.3	231.7	340.0	306.1	258.1	226.1	217.4
77.5°	979.1	249.4	144.8	145.9	148.7	184.9	280.0	271.6	227.8	188.5	182.4
80°	317.0	136.1	104.6	110.0	101.6	135.5	216.6	231.2	195.5	157.7	150.9
82.5°	120.6	79.4	70.7	74.3	70.4	90.9	157.9	185.2	160.2	129.6	105.5
85°	58.4	44.9	41.8	46.9	43.5	46.6	101.0	136.3	121.5	84.4	78.6
87.5°	20.8	19.9	16.0	21.6	18.5	16.6	30.9	68.7	80.2	58.1	51.9
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)