

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: P319306

Luminaire Tested: **GAN-SA2A-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8507 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

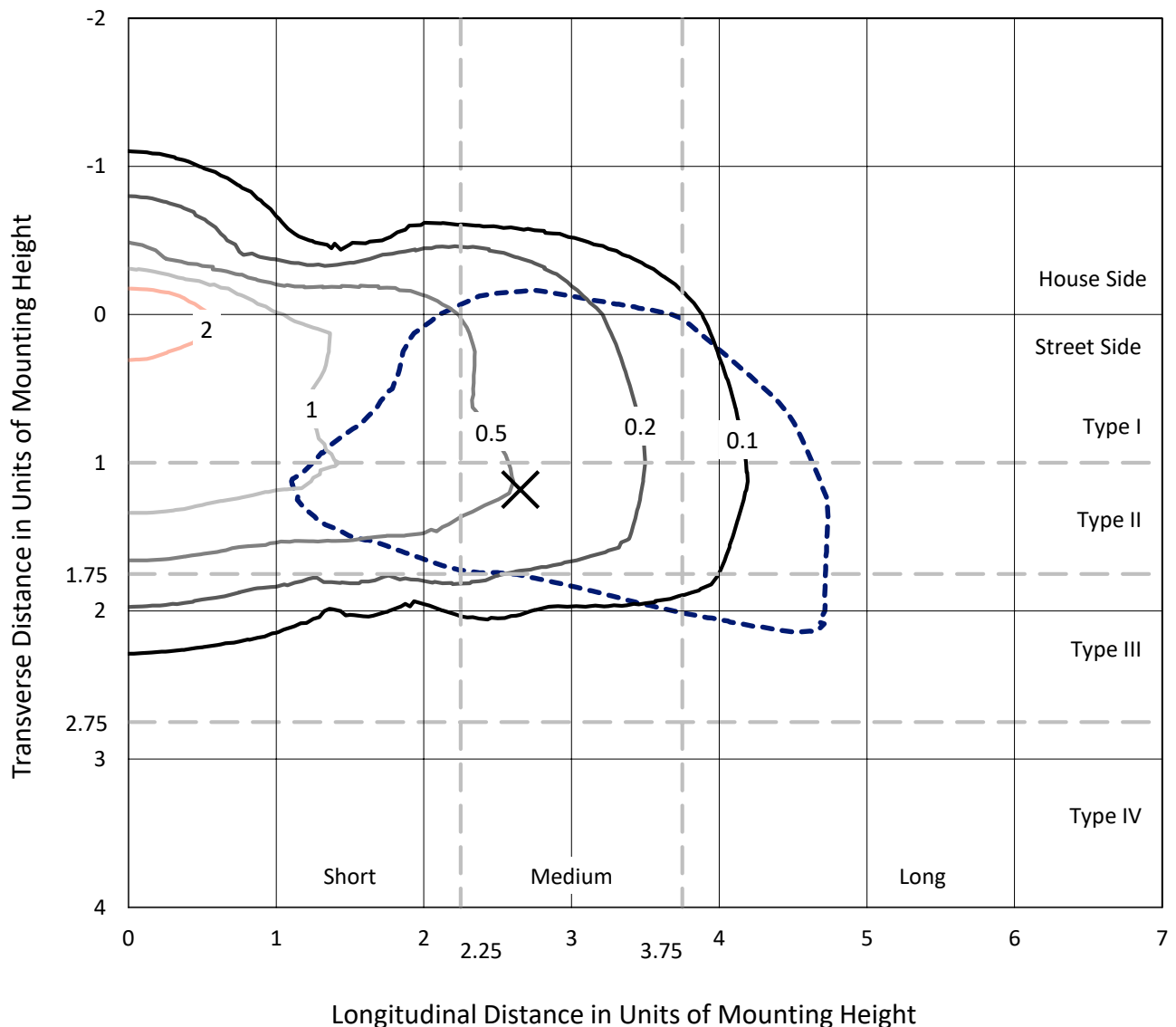
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

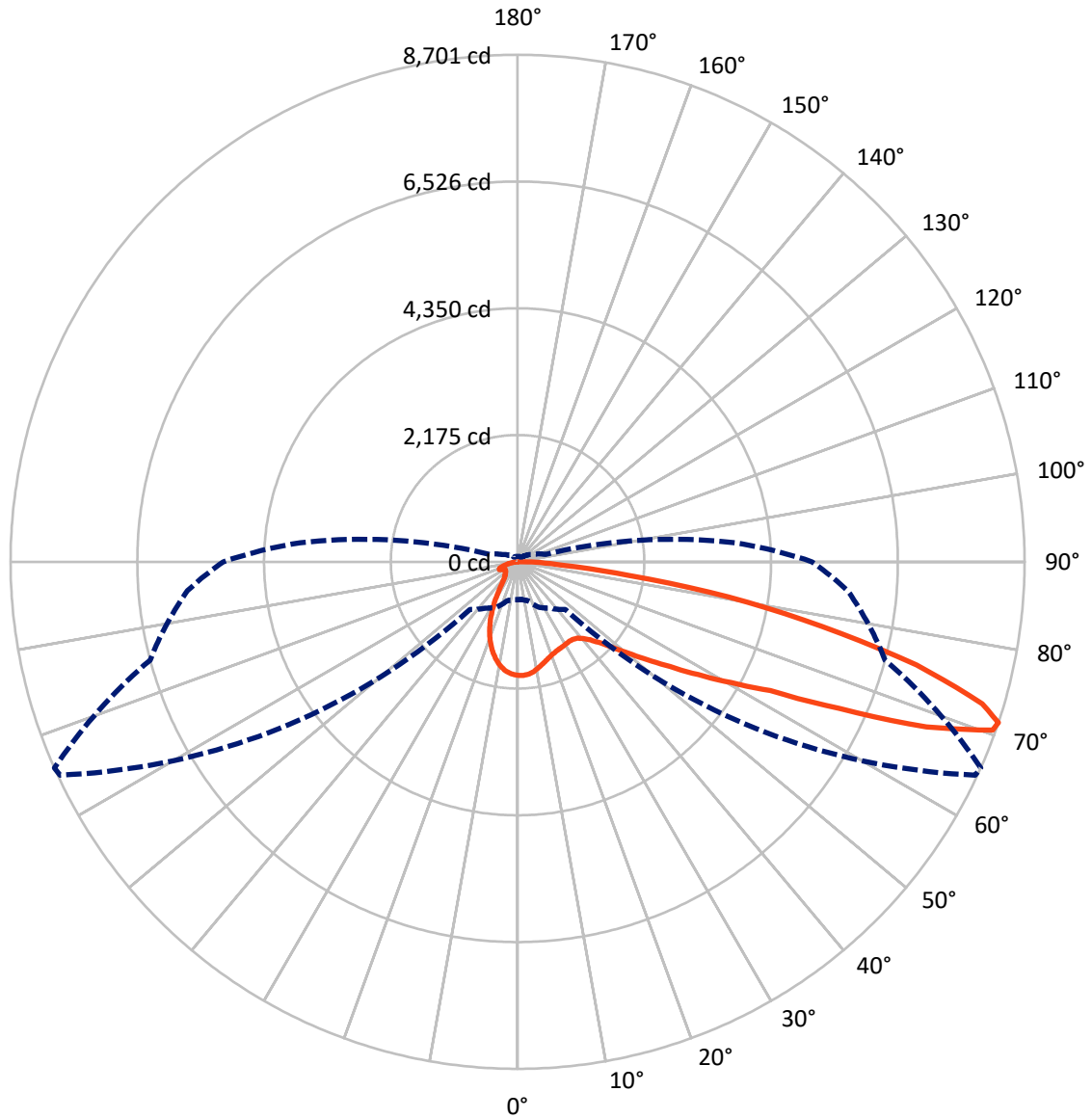
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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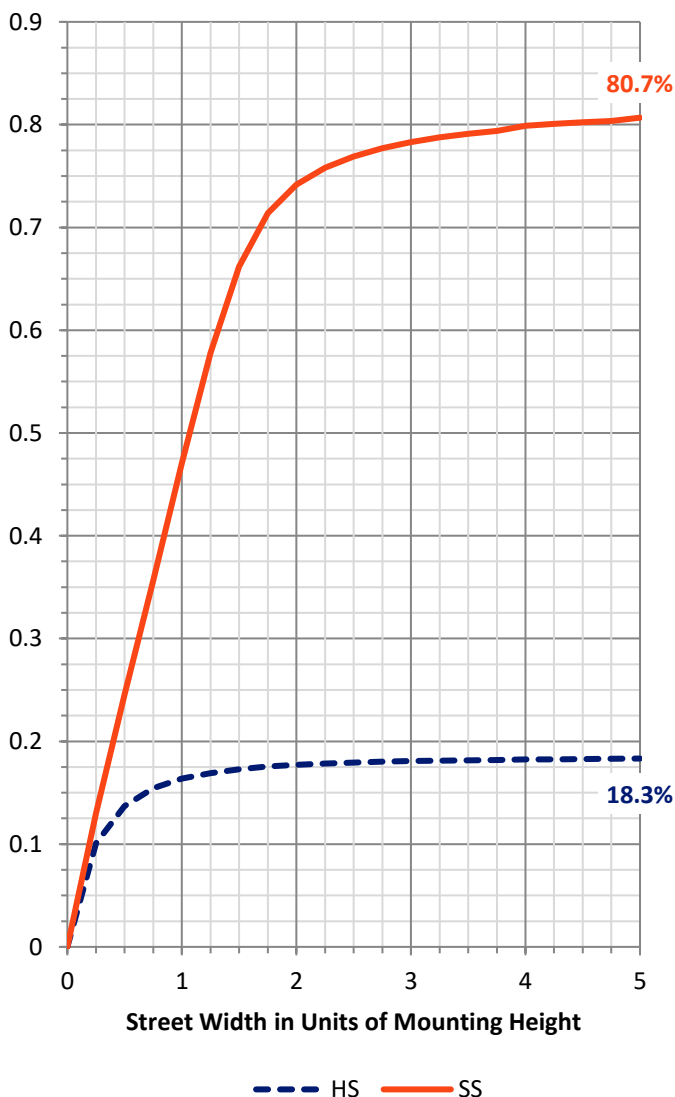
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1576.6	0.0	1576.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	6930.4	0.0	6930.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	8507.0	0.0	8507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	2.0
10°-20°	411.4	4.8
20°-30°	552.6	6.5
30°-40°	727.0	8.5
40°-50°	1057.6	12.4
50°-60°	1652.1	19.4
60°-70°	2069.5	24.3
70°-80°	1578.6	18.6
80°-90°	286.7	3.4
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°	8507.0	100.0
0°-180°	8507.0	100.0

Coefficient of Utilization



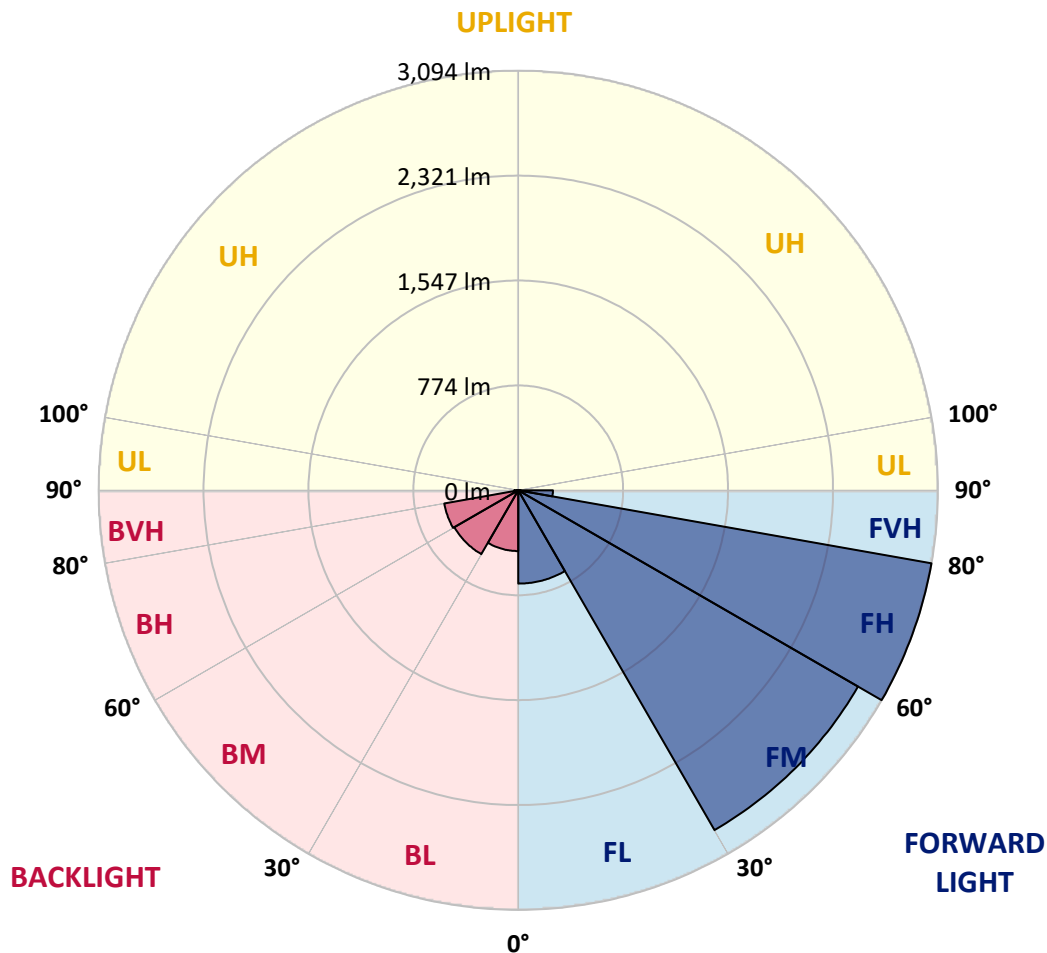
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.9	8.1			
FM (30°-60°)	2892.8	34.0			
FH (60°-80°)	3094.1	36.4			G2/5000
FVH (80°-90°)	255.6	3.0			G3/500
BL (0°-30°)	447.7	5.3	B1/500		
BM (30°-60°)	543.9	6.4	B1/1000		
BH (60°-80°)	554.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	31.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8
2.5°	1912.7	1909.7	1918.5	1927.6	1931.2	1937.0	1945.9	1950.8	1950.6	1951.4	1948.5
5°	1785.8	1782.0	1799.6	1814.0	1841.6	1872.7	1910.6	1937.6	1938.2	1953.5	1957.6
7.5°	1665.6	1663.0	1683.3	1706.5	1738.5	1786.1	1847.5	1905.6	1909.1	1950.6	1964.9
10°	1569.3	1568.7	1588.4	1613.7	1651.0	1704.1	1774.6	1859.8	1865.1	1936.5	1966.1
12.5°	1494.1	1495.3	1512.3	1541.1	1580.5	1636.0	1712.3	1808.4	1816.9	1914.1	1959.4
15°	1438.6	1443.3	1457.1	1486.2	1525.0	1581.4	1659.8	1760.8	1773.7	1889.2	1955.5
17.5°	1406.9	1412.2	1421.9	1446.0	1482.4	1536.7	1611.0	1721.7	1733.5	1870.1	1955.8
20°	1397.5	1401.9	1407.5	1422.2	1453.0	1502.3	1572.5	1686.5	1699.1	1854.8	1958.8
22.5°	1416.0	1419.2	1419.8	1418.6	1437.4	1477.7	1544.6	1660.7	1674.2	1844.8	1960.8
25°	1455.6	1460.0	1456.8	1446.0	1439.8	1464.5	1530.2	1643.6	1657.1	1837.5	1956.7
27.5°	1515.3	1515.9	1513.2	1499.1	1470.0	1465.9	1525.8	1633.6	1646.6	1829.0	1948.2
30°	1596.3	1600.2	1595.5	1576.4	1528.8	1489.4	1531.1	1623.9	1635.7	1818.1	1934.4
32.5°	1691.2	1700.6	1700.3	1680.3	1612.2	1542.0	1552.9	1618.1	1627.2	1806.6	1917.7
35°	1789.6	1802.5	1826.6	1818.1	1733.8	1625.1	1594.6	1627.5	1633.6	1805.2	1905.9
37.5°	1891.8	1904.7	1954.4	1977.3	1878.6	1744.1	1660.4	1660.7	1663.6	1823.1	1905.0
40°	1998.7	2012.5	2087.1	2146.8	2066.3	1894.7	1766.4	1730.0	1726.7	1867.1	1922.4
42.5°	2148.5	2160.9	2250.4	2326.5	2274.5	2087.7	1913.0	1836.9	1830.1	1953.5	1977.9
45°	2338.0	2348.5	2443.7	2525.1	2498.3	2308.0	2097.1	1984.0	1982.9	2097.4	2090.4
47.5°	2563.2	2571.5	2656.9	2735.6	2745.3	2561.5	2328.6	2211.1	2192.0	2294.8	2264.5
50°	2797.9	2807.0	2865.2	2949.8	3021.7	2900.7	2626.4	2489.2	2463.7	2555.3	2511.3
52.5°	2953.3	2965.3	3015.9	3123.1	3332.5	3272.6	2978.5	2826.4	2787.6	2871.0	2837.3
55°	2884.0	2911.0	2988.2	3160.1	3581.0	3840.6	3413.0	3219.7	3175.9	3245.2	3225.3
57.5°	2568.8	2605.8	2711.3	2976.5	3615.9	4341.1	4069.7	3682.9	3652.0	3632.1	3641.2
60°	1992.8	2028.4	2159.1	2504.8	3372.4	4706.5	5058.0	4253.9	4209.2	4020.4	4028.6
62.5°	1410.4	1392.5	1482.1	1735.0	2740.3	4749.3	6182.7	5017.5	4870.7	4430.4	4394.2
65°	1075.6	1071.5	1111.7	1192.2	1659.8	4236.2	6852.6	6301.0	6071.6	4912.7	4827.5
67.5°	883.8	876.4	916.1	1033.3	1068.8	2733.0	6867.3	7790.2	7564.9	5513.0	5328.6
70°	726.6	718.4	755.4	906.7	987.8	1386.0	5779.7	8662.2	8650.2	6273.1	5706.9
71°	651.5	645.6	689.9	857.9	970.4	1155.2	4990.2	8664.5	8700.7	6530.4	5684.5
72.5°	530.4	532.5	579.5	763.7	957.5	1020.1	3667.6	8260.7	8337.1	6775.7	5481.6
75°	352.5	354.2	415.9	587.4	928.4	998.0	2015.8	6931.6	7072.0	6628.8	5001.9
77.5°	236.7	236.1	278.1	403.0	808.9	998.0	1181.9	5184.3	5338.5	5274.5	3856.2
80°	163.0	161.8	191.5	278.1	612.4	1010.1	913.7	3633.2	3679.9	2848.4	1567.3
82.5°	99.9	100.7	125.1	196.5	416.8	909.0	862.6	1981.1	1930.3	798.9	391.5
85°	57.3	57.0	79.9	133.1	267.6	767.2	841.2	852.7	782.2	240.6	141.6
87.5°	20.6	22.0	42.9	73.7	153.3	534.3	713.7	443.5	399.7	108.7	64.0
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°	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8	1948.8
2.5°	1946.4	1948.2	1946.1	1934.4	1924.4	1908.3	1899.2	1886.5	1882.7	1880.9	1885.6
5°	1953.8	1954.4	1937.0	1906.2	1871.5	1830.7	1801.3	1765.2	1748.2	1740.8	1745.5
7.5°	1960.5	1957.9	1920.0	1861.0	1796.9	1725.9	1662.7	1604.9	1571.1	1557.3	1558.4
10°	1961.4	1950.3	1889.5	1798.1	1698.8	1594.6	1497.6	1408.4	1352.0	1315.2	1326.4
12.5°	1952.3	1933.5	1844.5	1716.8	1579.0	1436.8	1305.9	1171.9	1091.4	1054.1	1055.3
15°	1945.3	1911.2	1789.3	1621.0	1436.0	1247.7	1068.8	911.4	825.6	787.4	769.5
17.5°	1939.4	1887.1	1725.3	1513.2	1267.1	1028.3	813.3	672.9	625.9	614.7	610.0
20°	1931.2	1861.6	1653.9	1388.4	1074.7	782.7	593.9	524.6	524.9	537.8	539.6
22.5°	1919.7	1832.5	1577.8	1248.3	868.2	570.1	465.5	445.6	465.8	490.5	494.9
25°	1902.7	1798.1	1493.2	1093.5	662.0	438.2	397.7	396.8	421.5	447.3	451.1
27.5°	1878.6	1753.2	1399.3	927.3	487.9	372.4	356.3	362.4	380.7	399.5	400.9
30°	1846.3	1700.9	1295.6	751.9	382.4	331.6	329.8	335.4	346.6	359.8	361.0
32.5°	1810.7	1647.7	1184.8	582.1	327.5	309.6	311.3	314.0	319.3	324.6	325.7
35°	1778.4	1593.4	1071.5	442.3	301.4	295.2	294.0	293.4	294.0	292.2	292.5
37.5°	1757.6	1548.5	953.4	352.2	286.4	282.6	279.0	274.6	269.6	266.7	267.3
40°	1749.9	1515.0	833.9	304.3	274.0	271.4	264.6	255.2	249.4	247.6	247.6
42.5°	1770.5	1497.6	718.4	280.2	263.8	259.3	248.2	237.3	232.9	232.6	232.3
45°	1833.4	1504.7	608.6	267.0	254.4	245.8	231.2	222.0	219.1	219.7	219.4
47.5°	1946.1	1549.0	514.6	258.2	245.0	233.8	217.3	210.0	206.5	206.5	206.8
50°	2137.9	1652.7	439.7	250.8	237.0	222.6	207.4	198.3	193.6	193.3	193.3
52.5°	2417.3	1838.4	393.0	244.7	228.2	212.6	197.4	185.9	180.3	179.2	178.6
55°	2767.4	2104.5	380.1	240.6	216.5	201.8	185.3	173.9	167.7	165.1	164.8
57.5°	3158.9	2428.1	405.6	235.6	204.4	188.9	172.1	161.2	154.8	151.6	151.3
60°	3555.1	2781.5	509.9	228.5	194.4	174.8	158.6	148.6	142.2	138.6	138.0
62.5°	3951.9	3153.9	722.8	227.9	187.4	161.2	144.8	136.3	130.1	126.3	125.4
65°	4399.5	3561.6	964.8	243.5	185.0	148.9	130.7	123.9	118.7	115.1	114.8
67.5°	4913.5	4021.8	941.6	275.5	193.0	137.8	117.5	112.2	108.4	105.4	105.1
70°	5154.7	3949.9	585.4	298.1	204.1	126.9	104.9	101.0	98.1	96.0	95.2
71°	5053.6	3750.4	490.8	295.5	203.0	122.2	99.9	96.9	94.0	92.2	91.3
72.5°	4778.1	3420.3	409.4	274.9	189.7	113.7	93.4	90.5	87.8	85.8	85.2
75°	4287.6	3054.6	327.8	219.7	151.3	96.0	81.9	78.7	76.7	75.5	74.3
77.5°	3151.8	2179.9	253.5	173.6	111.3	78.4	69.9	67.6	65.5	63.7	62.9
80°	1207.5	844.4	170.6	129.5	81.7	62.0	56.4	55.2	53.2	52.0	52.0
82.5°	325.1	252.3	91.1	78.4	54.6	45.2	43.2	42.6	40.8	38.5	38.8
85°	131.6	111.3	51.1	43.2	33.5	26.7	29.1	29.4	27.3	24.4	24.7
87.5°	57.9	47.3	28.5	19.1	14.7	10.3	13.2	13.2	12.0	10.0	9.1
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)