

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: P319655

Luminaire Tested: **GAN-SA1D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7398 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

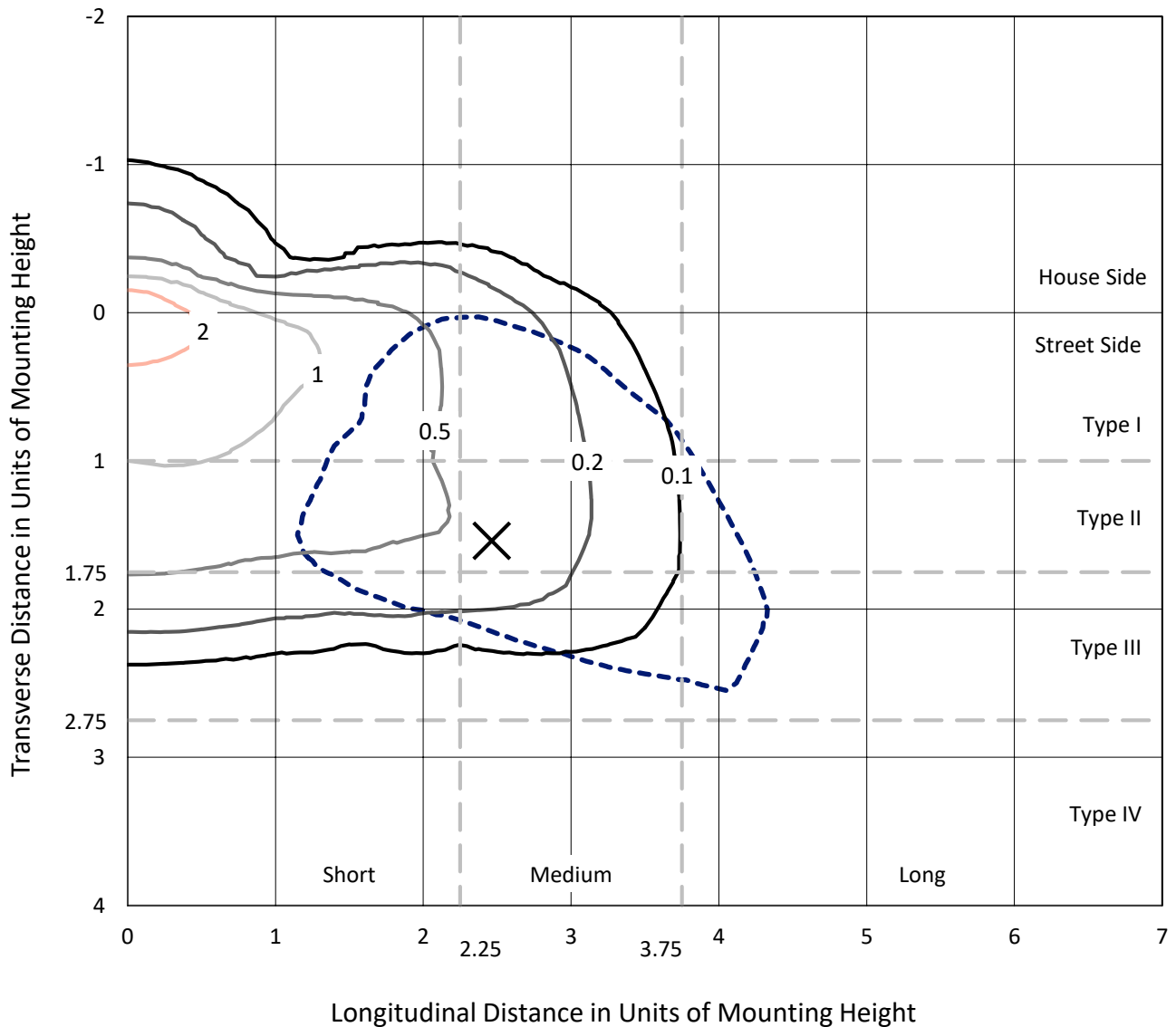
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

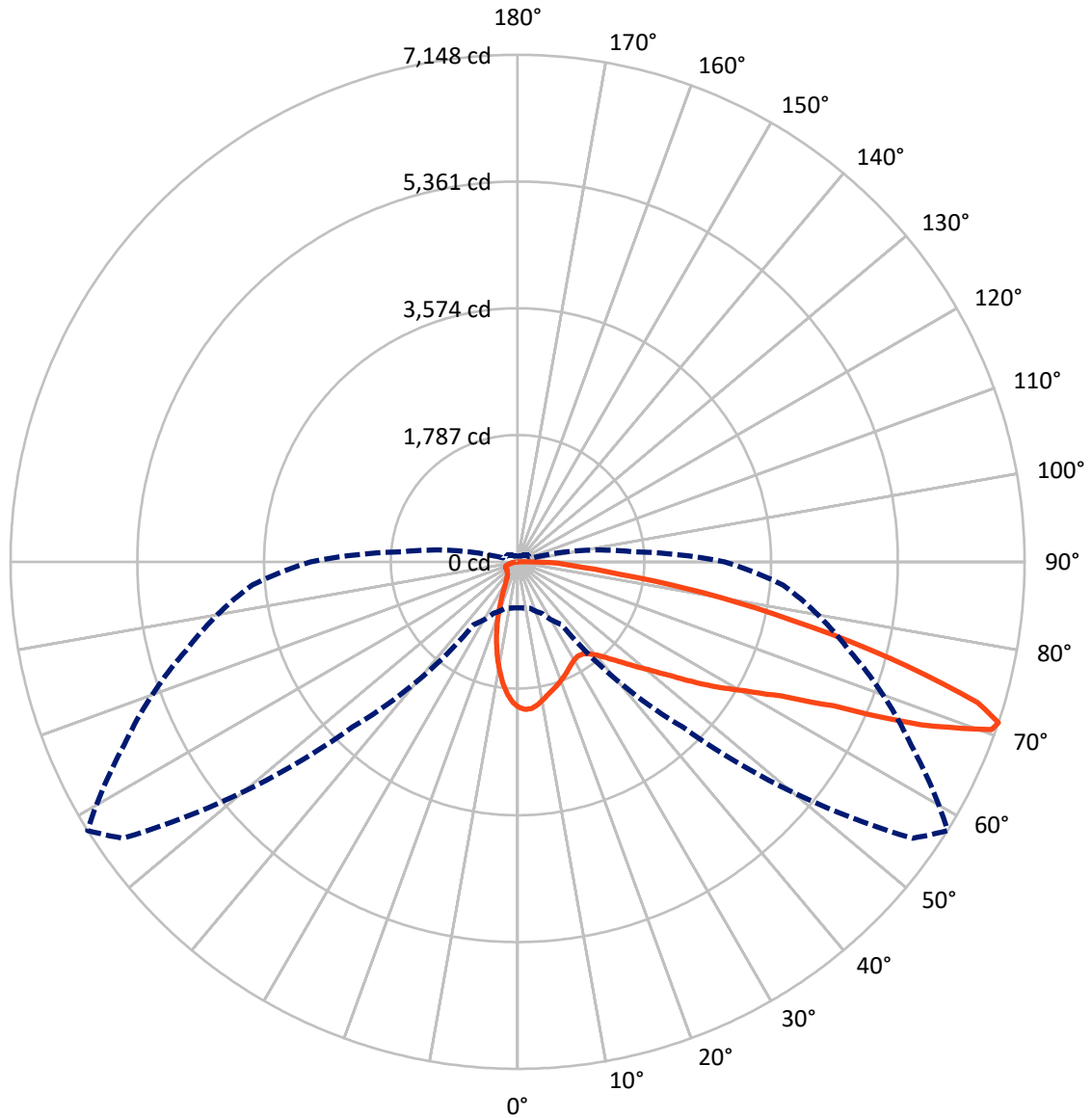
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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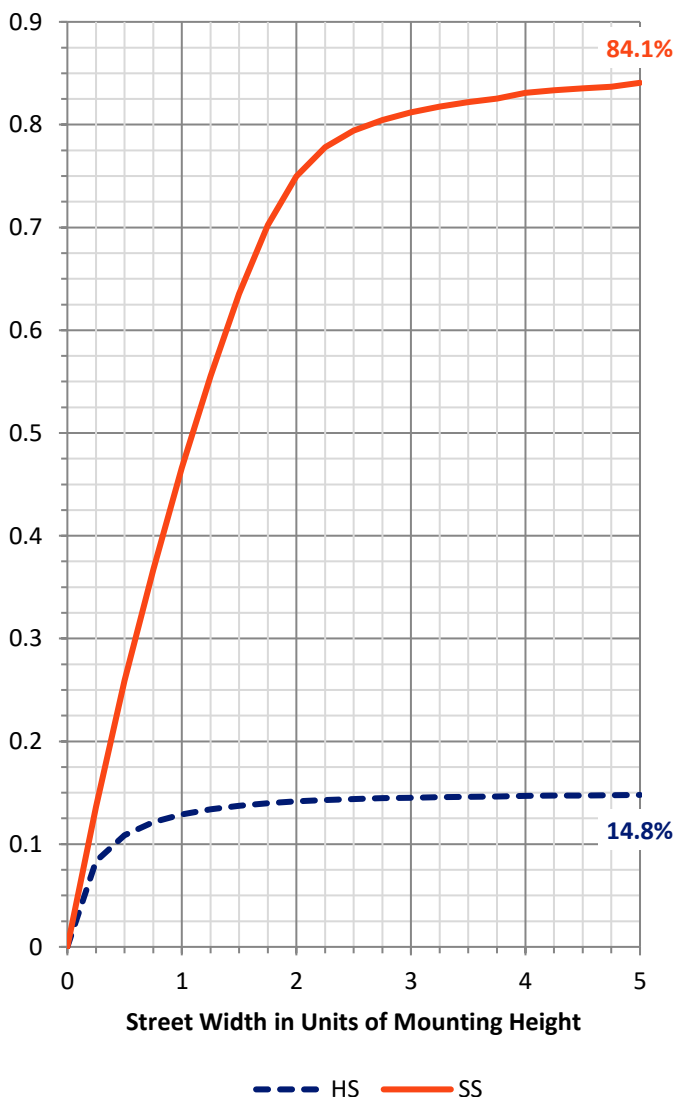
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1106.1	0.0	1106.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6291.9	0.0	6291.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	7398.0	0.0	7398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	2.4
10°-20°	393.2	5.3
20°-30°	499.7	6.8
30°-40°	636.5	8.6
40°-50°	902.7	12.2
50°-60°	1396.9	18.9
60°-70°	1901.7	25.7
70°-80°	1268.6	17.1
80°-90°	221.8	3.0
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°	7398.0	100.0
0°-180°	7398.0	100.0

Coefficient of Utilization

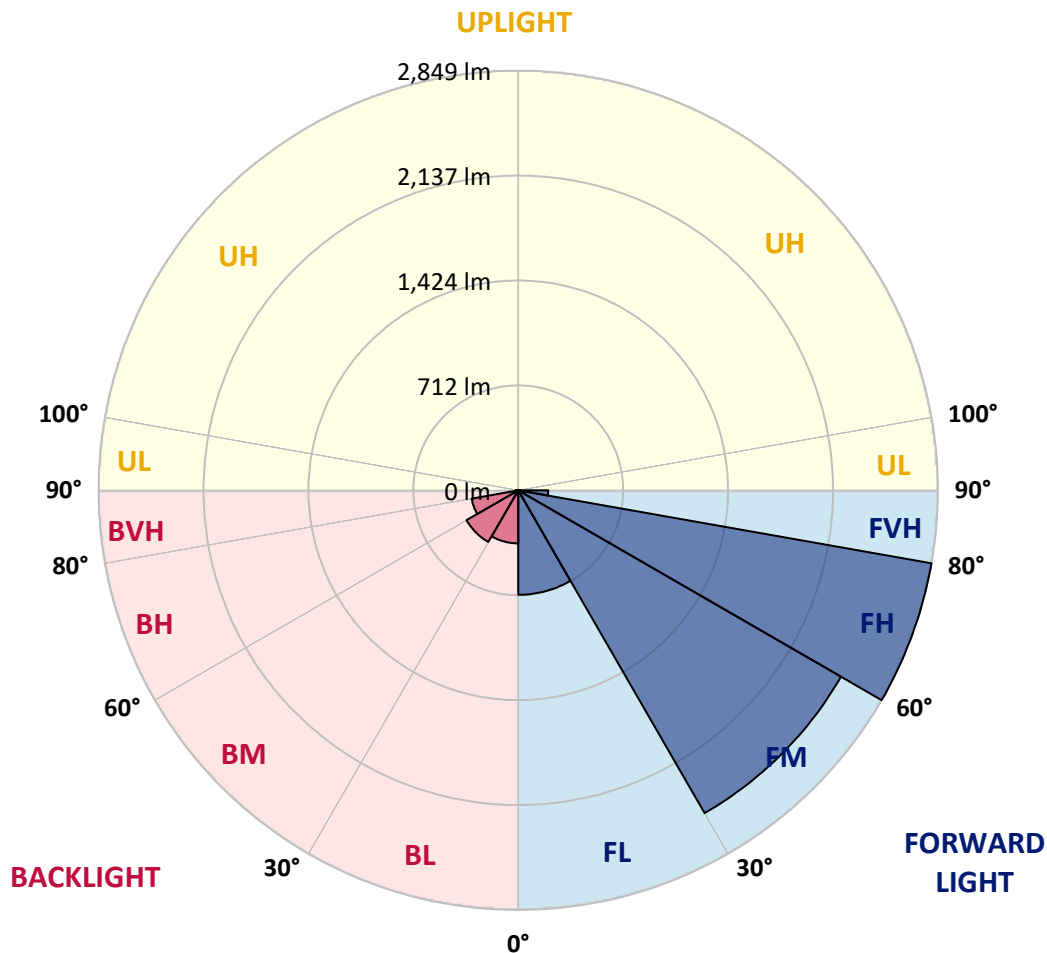


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	709.2	9.6			
FM (30°-60°)	2530.5	34.2			
FH (60°-80°)	2848.9	38.5			G2/5000
FVH (80°-90°)	203.4	2.7			G2/225
BL (0°-30°)	360.5	4.9	B1/500		
BM (30°-60°)	405.6	5.5	B1/1000		
BH (60°-80°)	321.5	4.3	B1/500		G1/500
BVH (80°-90°)	18.4	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7
2.5°	2104.1	2101.3	2102.3	2100.2	2095.4	2090.5	2083.2	2084.5	2074.5	2059.5	2041.0
5°	2064.4	2063.4	2071.1	2075.5	2079.1	2076.3	2074.2	2076.8	2062.1	2041.5	2009.3
7.5°	1981.2	1969.9	1979.6	1994.3	2008.3	2018.8	2032.7	2034.5	2025.3	2003.6	1961.3
10°	1862.9	1852.1	1866.5	1889.5	1917.3	1942.5	1970.6	1975.8	1977.6	1958.0	1906.7
12.5°	1740.2	1732.0	1746.4	1778.6	1824.8	1863.7	1908.5	1916.3	1932.2	1919.1	1856.2
15°	1630.5	1627.4	1644.9	1676.6	1729.7	1789.2	1853.9	1868.1	1895.1	1890.7	1816.8
17.5°	1535.6	1534.9	1548.3	1581.5	1640.3	1715.5	1799.5	1823.5	1863.7	1868.8	1784.3
20°	1465.0	1463.5	1472.8	1497.2	1557.8	1643.1	1740.8	1773.7	1831.7	1849.8	1750.8
22.5°	1427.1	1426.9	1427.1	1438.7	1488.2	1567.6	1683.5	1723.8	1800.5	1834.6	1713.7
25°	1420.7	1419.9	1414.3	1413.0	1441.1	1504.4	1626.9	1671.2	1770.9	1824.0	1678.4
27.5°	1437.4	1438.5	1431.0	1418.9	1424.6	1463.0	1577.6	1625.1	1747.2	1821.9	1653.9
30°	1472.2	1471.7	1465.3	1452.7	1441.6	1447.5	1542.6	1590.0	1731.2	1831.0	1637.2
32.5°	1510.6	1513.5	1512.2	1505.2	1488.7	1465.0	1532.0	1578.4	1726.6	1852.6	1629.9
35°	1556.8	1559.9	1569.1	1574.5	1555.2	1517.1	1554.7	1594.9	1740.0	1893.3	1641.5
37.5°	1600.6	1608.6	1634.6	1657.5	1641.0	1598.5	1615.0	1643.6	1781.5	1957.5	1672.7
40°	1651.1	1658.0	1700.6	1749.3	1746.7	1702.6	1712.2	1731.2	1854.7	2049.5	1729.2
42.5°	1700.8	1714.7	1776.3	1845.4	1865.2	1826.3	1841.5	1851.6	1957.7	2171.4	1827.6
45°	1767.0	1782.0	1867.5	1950.8	1997.2	1975.3	1999.5	2003.4	2087.4	2337.3	1970.6
47.5°	1867.3	1884.3	1984.0	2071.4	2142.3	2144.6	2184.5	2183.0	2249.2	2527.3	2150.8
50°	2023.5	2047.9	2129.6	2211.3	2297.4	2345.3	2398.7	2391.2	2443.2	2729.6	2358.2
52.5°	2228.1	2239.4	2300.0	2360.3	2467.2	2574.7	2651.2	2644.5	2663.3	2937.5	2593.7
55°	2440.2	2448.7	2473.7	2506.6	2650.4	2825.7	2987.5	2976.9	2929.3	3153.5	2826.4
57.5°	2630.9	2648.1	2665.4	2679.0	2835.0	3088.0	3331.5	3332.3	3217.9	3386.4	3066.9
60°	2660.5	2675.7	2789.9	2897.6	3150.6	3438.0	3699.8	3692.1	3516.6	3639.2	3334.9
62.5°	2351.8	2386.0	2576.7	2863.3	3454.7	4078.1	4169.6	4160.0	3873.7	3950.8	3647.0
65°	1685.4	1724.3	1954.4	2385.0	3307.3	4783.4	5017.4	4889.1	4360.8	4334.0	4012.4
67.5°	972.3	981.6	1081.3	1427.1	2518.2	4820.3	6310.8	6131.2	5117.1	4768.7	4191.2
70°	719.0	718.7	742.4	878.2	1362.7	3934.0	6925.9	7087.0	5913.4	4911.7	3938.4
71°	650.2	650.9	677.5	799.4	1079.2	3292.9	6795.3	7147.8	6123.2	4841.1	3755.5
72.5°	556.1	558.7	595.5	716.9	907.9	2270.8	6232.5	6782.9	6222.7	4666.9	3469.1
75°	421.9	427.8	478.8	604.3	829.8	1151.7	4574.2	5416.3	5527.9	4118.0	2577.8
77.5°	301.0	307.7	365.4	508.2	788.8	867.9	3063.3	3950.8	4068.0	2639.1	1162.7
80°	190.2	198.2	241.7	404.3	741.1	824.1	1925.0	2655.6	2218.3	844.5	295.8
82.5°	111.6	117.8	150.0	264.1	605.3	793.7	1132.6	1472.0	863.3	255.1	134.5
85°	64.7	67.5	93.5	168.3	439.6	749.1	832.1	822.8	374.7	124.7	63.7
87.5°	30.2	33.5	55.4	87.9	244.0	543.0	657.6	568.2	233.0	58.5	29.9
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°	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7	2049.7
2.5°	2032.0	2027.6	2009.3	1993.0	1976.0	1953.9	1929.4	1926.3	1911.4	1914.2	1909.0
5°	1991.8	1980.7	1936.6	1896.7	1849.5	1807.2	1761.4	1740.2	1709.8	1707.8	1700.0
7.5°	1934.3	1913.7	1845.4	1769.6	1693.9	1621.7	1550.3	1503.4	1455.5	1435.1	1433.3
10°	1869.6	1834.6	1734.1	1622.0	1512.7	1407.3	1305.2	1229.7	1161.7	1129.5	1128.2
12.5°	1808.3	1756.5	1618.6	1466.1	1316.6	1180.0	1040.1	940.9	855.6	827.0	814.8
15°	1756.2	1683.3	1506.3	1311.2	1129.8	940.1	780.8	676.5	597.6	570.3	565.1
17.5°	1705.7	1611.9	1391.1	1154.8	935.4	727.0	567.5	489.9	447.9	436.8	436.5
20°	1655.5	1538.5	1270.7	994.7	747.6	543.7	436.3	401.5	387.3	386.0	384.0
22.5°	1598.5	1460.6	1144.2	834.2	583.4	427.5	370.8	356.9	355.1	359.7	359.7
25°	1545.2	1383.3	1015.9	677.0	453.8	356.7	331.1	328.3	333.2	341.5	342.2
27.5°	1495.4	1308.9	890.6	537.3	363.6	314.1	303.6	306.9	315.7	325.2	325.5
30°	1454.5	1238.5	769.0	423.4	307.2	282.4	280.6	287.3	296.9	304.3	306.1
32.5°	1422.8	1178.5	651.5	340.4	270.3	258.7	260.3	265.9	271.9	276.0	278.8
35°	1408.1	1126.9	543.0	287.1	246.9	240.4	242.5	245.6	248.2	251.3	253.6
37.5°	1410.6	1087.0	446.1	253.8	231.2	227.8	227.8	227.8	227.8	229.4	229.6
40°	1434.6	1064.0	367.2	232.7	220.6	217.0	214.1	211.6	209.5	210.5	210.0
42.5°	1495.9	1062.0	309.5	219.3	212.1	206.2	200.5	196.9	194.3	195.3	195.9
45°	1600.1	1087.7	270.6	209.8	204.1	195.1	187.9	184.0	182.2	185.5	186.1
47.5°	1734.8	1143.9	246.9	202.8	196.6	184.8	177.0	173.4	173.9	178.8	180.1
50°	1908.5	1235.2	235.5	198.4	191.5	176.0	168.0	164.9	166.5	173.4	175.0
52.5°	2099.2	1366.6	236.8	197.1	188.1	169.6	161.1	157.5	160.0	166.5	167.8
55°	2319.3	1524.5	258.2	198.9	183.2	165.4	155.4	149.2	151.3	157.2	158.2
57.5°	2563.9	1705.5	301.3	198.4	177.0	161.6	149.5	140.2	141.7	145.3	146.4
60°	2818.5	1924.0	368.0	200.0	174.2	156.9	141.5	129.9	129.4	132.5	133.0
62.5°	3124.1	2176.8	444.3	201.0	176.0	151.0	130.9	119.6	118.0	118.8	119.3
65°	3439.0	2359.8	415.7	196.9	181.7	146.1	121.6	109.5	106.7	106.2	106.4
67.5°	3448.8	2163.6	291.5	188.6	184.0	143.5	114.7	101.0	96.4	94.6	94.3
70°	3092.9	1757.8	227.0	179.9	174.7	139.4	108.2	94.1	87.1	84.3	84.0
71°	2919.2	1618.1	215.2	175.5	167.8	135.3	105.4	91.0	83.8	80.7	80.1
72.5°	2646.8	1450.6	200.7	168.5	154.4	124.7	100.0	86.6	79.1	75.5	74.7
75°	1899.5	948.6	172.4	150.2	127.8	99.5	87.6	77.8	71.4	67.0	66.5
77.5°	731.9	377.5	130.4	125.0	97.9	77.8	72.2	67.3	62.6	58.2	58.0
80°	226.3	168.8	95.1	94.1	70.9	58.0	56.2	54.9	53.1	48.4	47.4
82.5°	120.9	96.9	65.5	60.8	46.4	38.7	40.7	41.2	41.5	36.6	36.1
85°	57.7	51.3	36.9	34.5	27.1	21.6	25.0	27.1	27.3	22.4	20.9
87.5°	27.6	26.8	17.3	13.1	10.1	7.2	8.8	10.8	11.9	8.5	7.5
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)