

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: P323186

Luminaire Tested: **GAN-SA2A-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7898 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

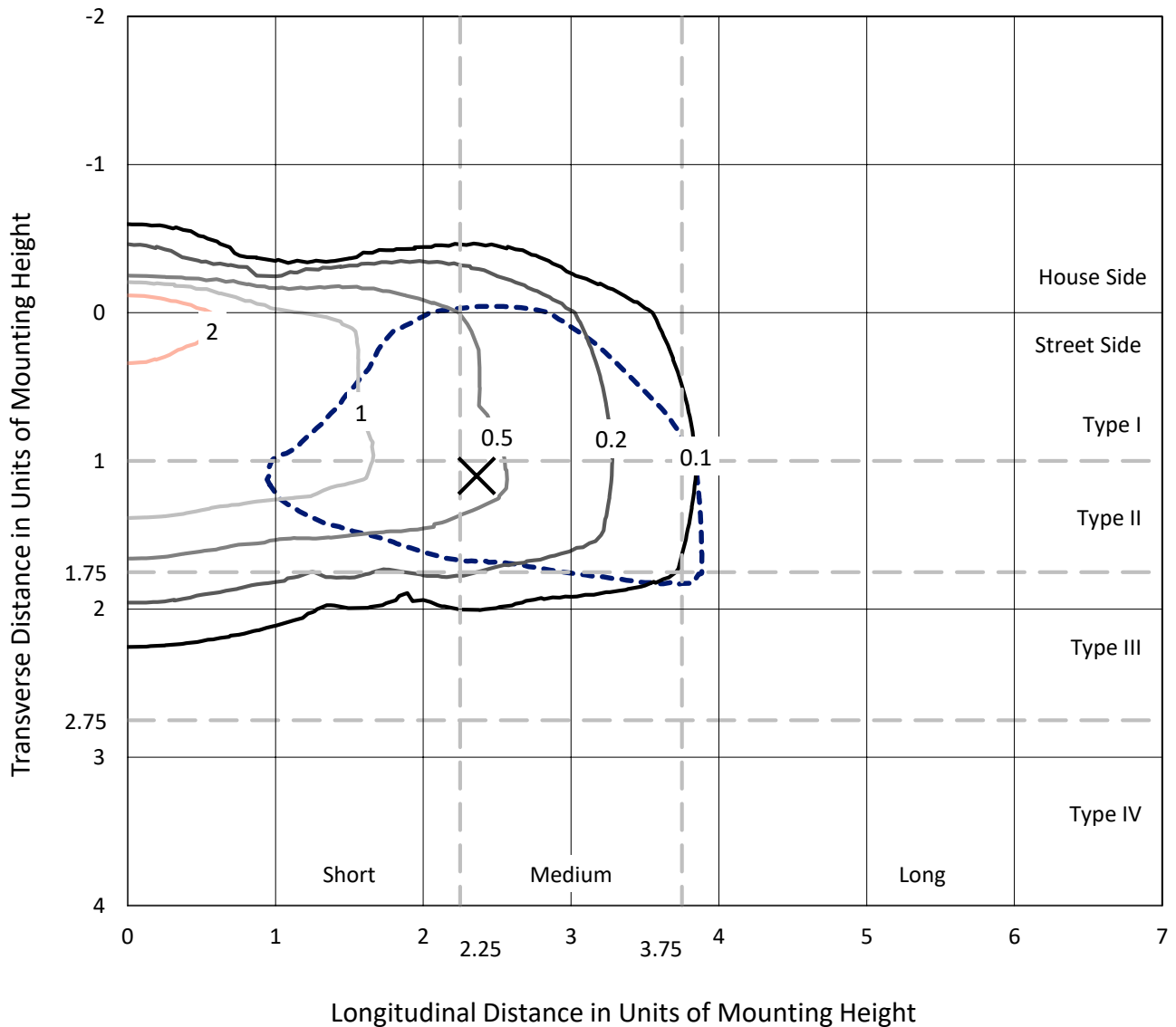
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

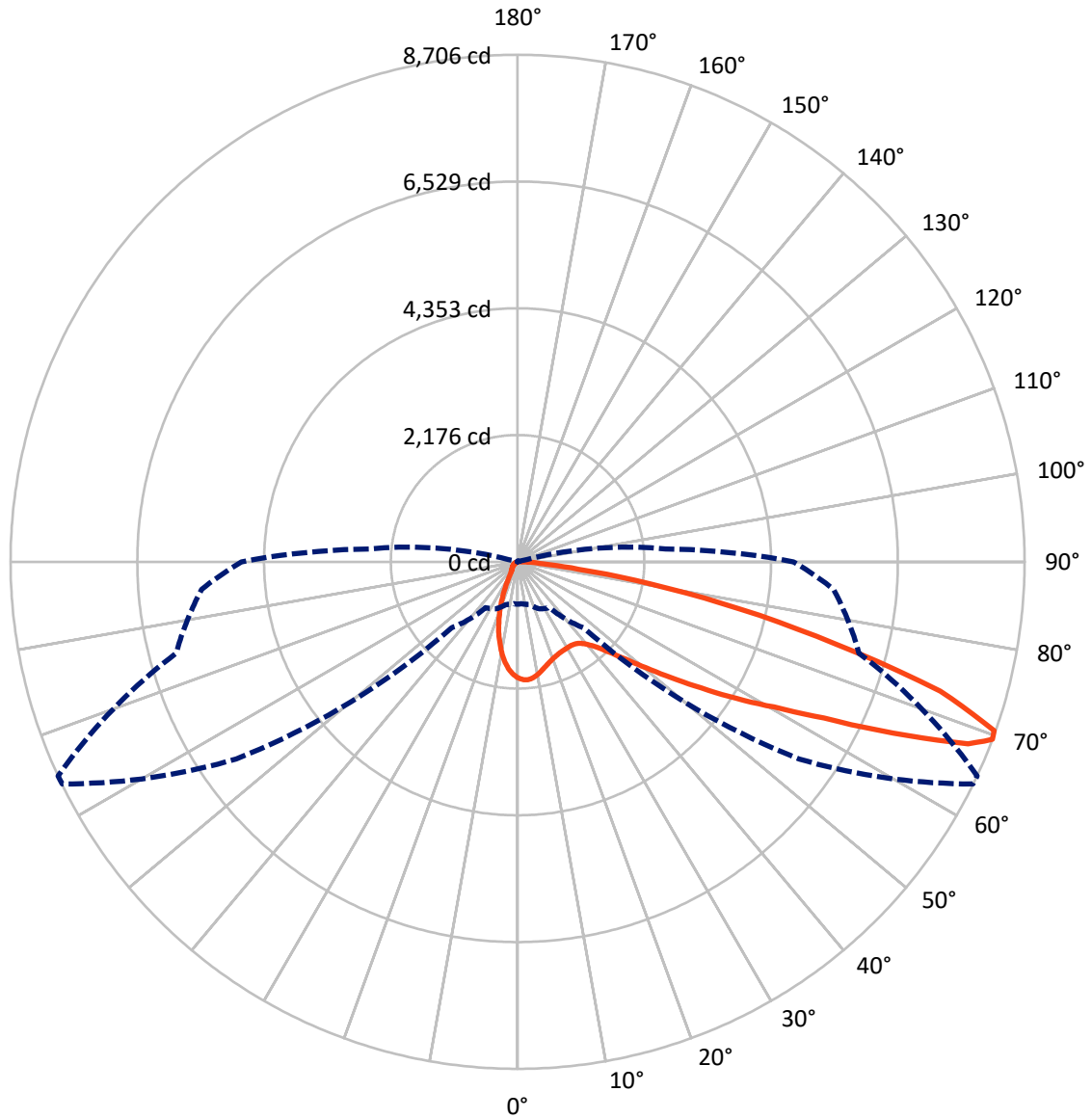
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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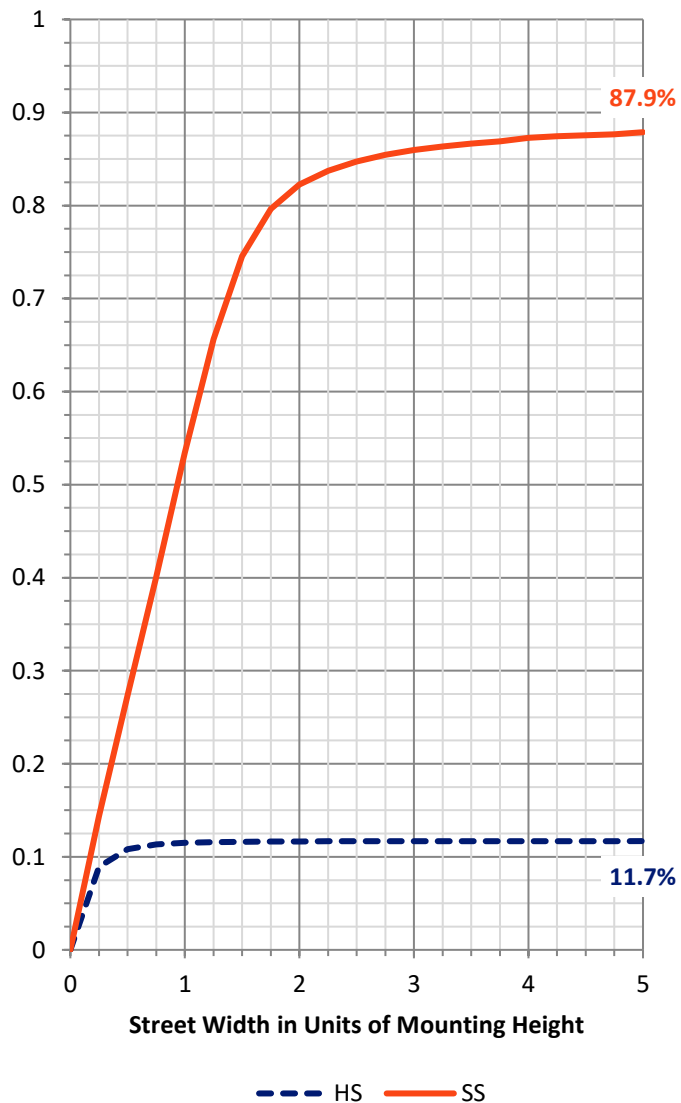
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	931.0	0.0	931.0
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	6967.0	0.0	6967.0
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	7898.0	0.0	7898.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	2.1
10°-20°	365.3	4.6
20°-30°	506.0	6.4
30°-40°	705.5	8.9
40°-50°	1096.6	13.9
50°-60°	1760.5	22.3
60°-70°	1991.4	25.2
70°-80°	1169.6	14.8
80°-90°	136.1	1.7
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°	7898.0	100.0
0°-180°	7898.0	100.0

**Coefficient of Utilization**

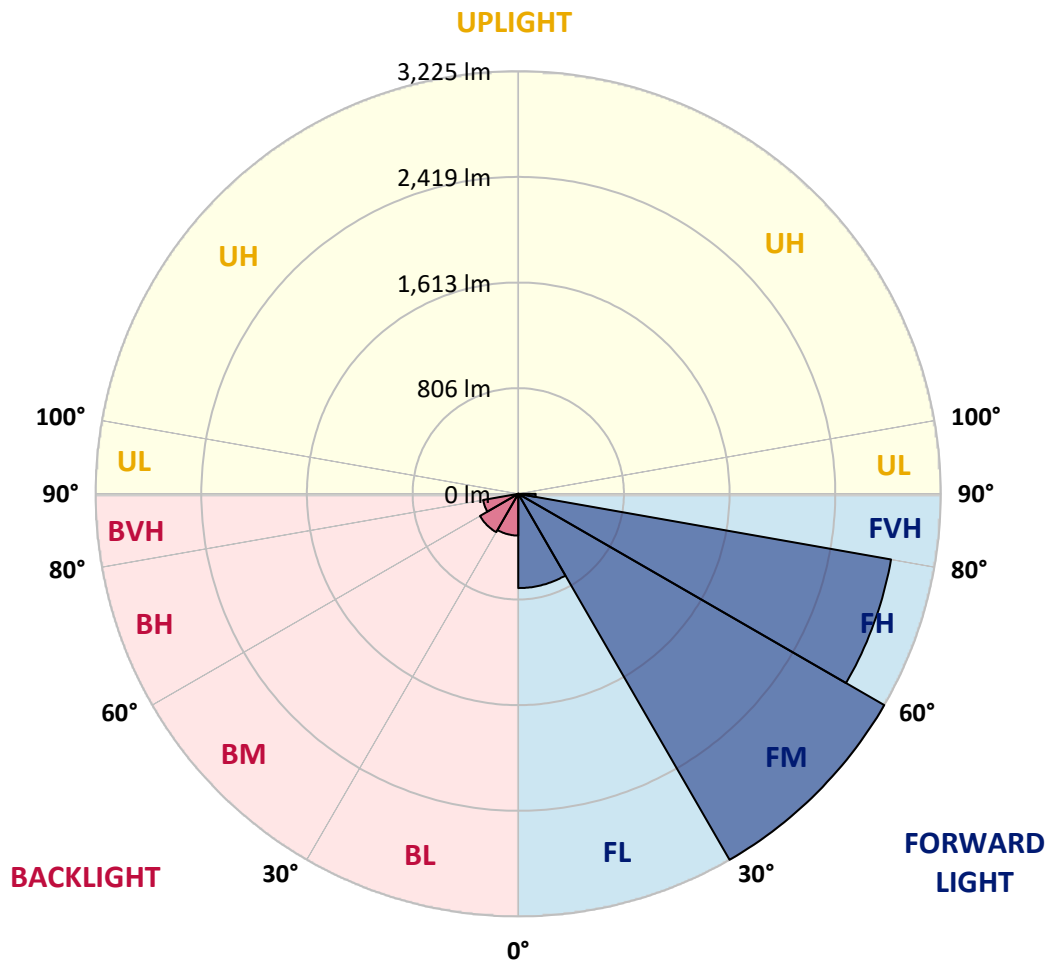


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.7	9.1			
FM (30°-60°)	3225.3	40.8			
FH (60°-80°)	2889.0	36.6			G2/5000
FVH (80°-90°)	133.0	1.7			G2/225
BL (0°-30°)	318.5	4.0	B1/500		
BM (30°-60°)	337.4	4.3	B1/1000		
BH (60°-80°)	272.0	3.4	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
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°	64°	65°	75°	85°
0°	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8
2.5°	2013.6	2008.5	2012.5	2021.2	2025.6	2025.6	2028.9	2024.9	2026.3	2016.6	2002.5
5°	1887.6	1879.9	1890.9	1915.3	1945.4	1971.1	2009.2	2029.3	2031.3	2031.6	2015.2
7.5°	1751.9	1744.9	1761.2	1790.0	1828.7	1876.5	1943.0	2001.2	2004.5	2035.9	2023.9
10°	1641.6	1636.6	1655.6	1686.4	1731.8	1785.3	1866.8	1947.7	1957.4	2026.9	2022.6
12.5°	1554.0	1550.0	1568.1	1603.5	1649.9	1709.1	1794.3	1888.2	1901.3	2006.5	2015.9
15°	1490.2	1489.5	1504.6	1538.7	1590.1	1645.3	1732.5	1833.1	1848.1	1984.5	2014.9
17.5°	1456.8	1457.8	1468.8	1497.9	1542.0	1596.8	1680.4	1786.6	1803.0	1964.8	2019.9
20°	1453.4	1454.4	1460.5	1476.8	1512.6	1561.0	1637.9	1747.5	1764.6	1950.1	2027.9
22.5°	1482.8	1482.2	1483.8	1482.2	1502.2	1539.0	1609.8	1717.5	1737.2	1940.4	2034.3
25°	1539.3	1538.3	1537.7	1525.3	1511.9	1531.6	1598.1	1700.4	1719.1	1933.3	2037.9
27.5°	1617.9	1617.2	1616.2	1595.8	1555.7	1543.3	1599.5	1694.1	1709.8	1927.7	2037.3
30°	1721.1	1725.8	1724.5	1696.1	1633.6	1579.1	1613.5	1690.7	1704.4	1916.6	2030.3
32.5°	1842.4	1851.8	1859.2	1828.7	1750.5	1649.9	1645.9	1694.4	1704.4	1908.3	2017.6
35°	1968.4	1980.5	2007.5	1996.8	1893.9	1756.6	1701.7	1716.4	1724.8	1913.0	2011.5
37.5°	2092.4	2106.8	2165.6	2196.7	2081.7	1897.6	1788.6	1770.9	1775.3	1941.4	2018.2
40°	2236.5	2258.2	2347.4	2397.5	2306.0	2086.4	1918.6	1864.5	1866.2	2003.9	2049.3
42.5°	2425.6	2448.0	2544.6	2623.1	2558.6	2325.0	2095.1	2007.5	2005.9	2120.8	2122.5
45°	2656.2	2679.6	2779.5	2866.8	2837.7	2607.8	2321.0	2216.4	2214.4	2305.3	2261.2
47.5°	2917.6	2940.6	3029.9	3119.8	3151.2	2937.9	2608.8	2501.5	2496.8	2561.6	2475.4
50°	3141.8	3156.8	3239.1	3360.0	3501.7	3343.7	2966.7	2863.4	2858.4	2902.2	2789.9
52.5°	3223.4	3232.0	3315.6	3485.0	3838.6	3893.1	3436.9	3303.9	3300.2	3319.3	3208.6
55°	3058.3	3074.0	3176.6	3427.9	4021.1	4514.0	4030.4	3849.3	3821.6	3780.5	3646.4
57.5°	2608.4	2633.5	2743.8	3078.0	3935.9	5006.6	4902.7	4466.2	4425.5	4174.1	4002.4
60°	1954.4	1985.1	2076.7	2437.3	3481.0	5182.1	5855.8	5153.7	5061.8	4487.6	4329.6
62.5°	1341.1	1356.5	1418.7	1653.6	2563.6	4894.7	6653.2	6074.4	5906.6	4828.5	4683.5
65°	1024.3	1029.7	1055.1	1135.9	1526.6	3976.0	6970.4	7289.2	7086.4	5236.2	5050.8
67.5°	825.5	821.1	856.2	971.9	1022.3	2425.6	6600.4	8438.5	8343.6	5781.3	5420.4
69°	727.9	721.9	757.6	892.0	960.2	1603.5	5900.6	8699.5	8705.6	6069.1	5445.8
70°	655.0	659.0	694.5	844.5	939.1	1258.6	5232.2	8633.0	8680.5	6176.7	5293.4
72.5°	437.5	448.2	519.3	701.2	903.0	952.5	3159.2	7408.2	7590.7	5934.4	4541.4
75°	246.6	254.7	339.2	528.7	850.9	907.0	1668.7	5457.8	5634.3	4962.5	3502.1
77.5°	121.0	125.3	191.8	341.2	711.5	864.2	946.5	3707.3	3908.8	3239.1	1980.8
80°	51.1	53.5	95.9	210.5	508.7	824.8	702.8	2281.6	2306.6	1269.0	527.7
82.5°	19.7	20.4	40.4	131.3	323.2	643.0	587.9	1081.8	1055.7	239.0	120.3
85°	2.3	2.7	14.7	78.9	179.8	330.9	477.6	466.2	431.5	47.5	61.8
87.5°	0.0	0.0	1.0	24.1	53.5	155.1	248.3	193.5	174.5	15.4	32.1
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°	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8	1995.8
2.5°	1990.8	1987.5	1969.4	1943.4	1918.6	1887.9	1858.5	1840.8	1826.7	1817.4	1828.4
5°	1996.2	1981.5	1926.7	1856.5	1787.6	1710.1	1637.9	1576.8	1552.7	1526.0	1538.0
7.5°	1994.5	1966.8	1868.2	1743.2	1616.9	1486.2	1362.5	1267.3	1217.8	1169.4	1181.7
10°	1986.1	1939.4	1790.0	1604.8	1415.7	1227.8	1052.4	919.0	844.5	777.0	786.7
12.5°	1967.8	1902.6	1697.7	1446.4	1193.4	945.8	740.3	569.5	477.9	437.5	442.5
15°	1956.7	1866.8	1600.1	1286.0	956.1	658.7	452.5	336.5	294.8	281.4	283.1
17.5°	1951.4	1832.4	1499.2	1102.5	713.5	419.4	292.4	258.0	249.0	246.6	247.3
20°	1946.0	1797.7	1395.3	921.1	491.6	282.1	240.3	230.3	226.9	223.9	224.6
22.5°	1937.0	1764.2	1283.7	737.2	331.5	228.9	216.6	206.9	199.9	196.2	196.8
25°	1926.0	1729.1	1169.7	549.1	242.0	204.2	192.5	178.8	170.4	163.8	164.1
27.5°	1908.3	1686.0	1052.1	399.7	203.2	182.8	167.1	152.1	138.0	130.3	130.3
30°	1883.5	1637.2	921.4	286.1	182.1	161.8	142.7	124.0	108.9	101.9	101.3
32.5°	1856.1	1586.4	789.4	216.9	165.4	142.0	120.3	100.6	87.2	81.5	81.2
35°	1832.7	1531.6	657.7	181.8	148.7	123.0	99.3	82.5	71.9	67.2	66.8
37.5°	1817.7	1476.8	529.4	162.4	133.7	105.3	83.2	68.2	60.5	56.8	56.5
40°	1815.4	1436.1	412.1	147.7	119.6	89.6	69.5	57.8	50.8	46.8	46.5
42.5°	1845.8	1412.7	316.2	135.4	105.3	75.9	59.2	49.5	42.1	38.1	37.8
45°	1925.7	1420.0	243.3	124.3	90.9	64.2	50.1	41.1	34.4	31.4	30.7
47.5°	2071.4	1470.8	193.5	113.3	77.2	54.5	42.8	34.1	28.4	25.4	25.1
50°	2330.7	1590.1	161.8	101.3	64.5	46.5	35.4	27.7	23.1	20.4	20.1
52.5°	2674.9	1802.7	144.4	89.6	53.5	39.4	29.1	22.1	18.0	16.0	15.7
55°	3054.6	2060.0	133.0	76.9	43.8	32.8	23.1	17.4	14.0	12.4	11.7
57.5°	3425.2	2282.9	122.3	64.5	36.4	26.7	18.4	13.7	11.0	9.4	9.0
60°	3765.8	2487.8	110.0	51.8	29.7	21.1	14.4	10.7	8.7	7.0	7.0
62.5°	4130.4	2646.2	92.9	40.4	24.4	16.0	11.7	9.7	7.0	6.0	5.7
65°	4516.7	2763.8	72.9	31.4	19.0	12.0	9.7	10.0	5.7	4.3	4.0
67.5°	4802.1	2740.4	53.8	24.7	14.7	9.4	9.4	10.7	5.0	3.3	3.0
69°	4739.3	2550.3	45.1	21.4	12.7	8.0	8.7	10.7	4.7	3.0	2.7
70°	4557.1	2339.7	39.8	19.0	11.4	7.4	8.4	10.4	4.3	3.0	2.7
72.5°	3795.2	1762.2	31.1	14.4	9.0	6.0	7.0	9.0	4.3	3.0	2.3
75°	2854.7	1127.9	23.7	10.4	6.7	4.7	5.3	6.7	4.3	2.7	2.3
77.5°	1553.4	406.7	17.0	7.0	4.7	3.7	3.7	5.0	4.0	2.0	1.3
80°	399.4	102.3	10.7	4.7	3.7	2.7	2.3	3.3	2.3	0.3	0.0
82.5°	98.6	23.1	5.7	3.3	2.7	1.0	1.0	1.7	1.0	0.0	0.0
85°	54.1	11.4	3.7	2.3	1.3	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	27.7	3.3	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
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)