

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: P323226

Luminaire Tested: **GAN-SA2A-750-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323226
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-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 7897 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

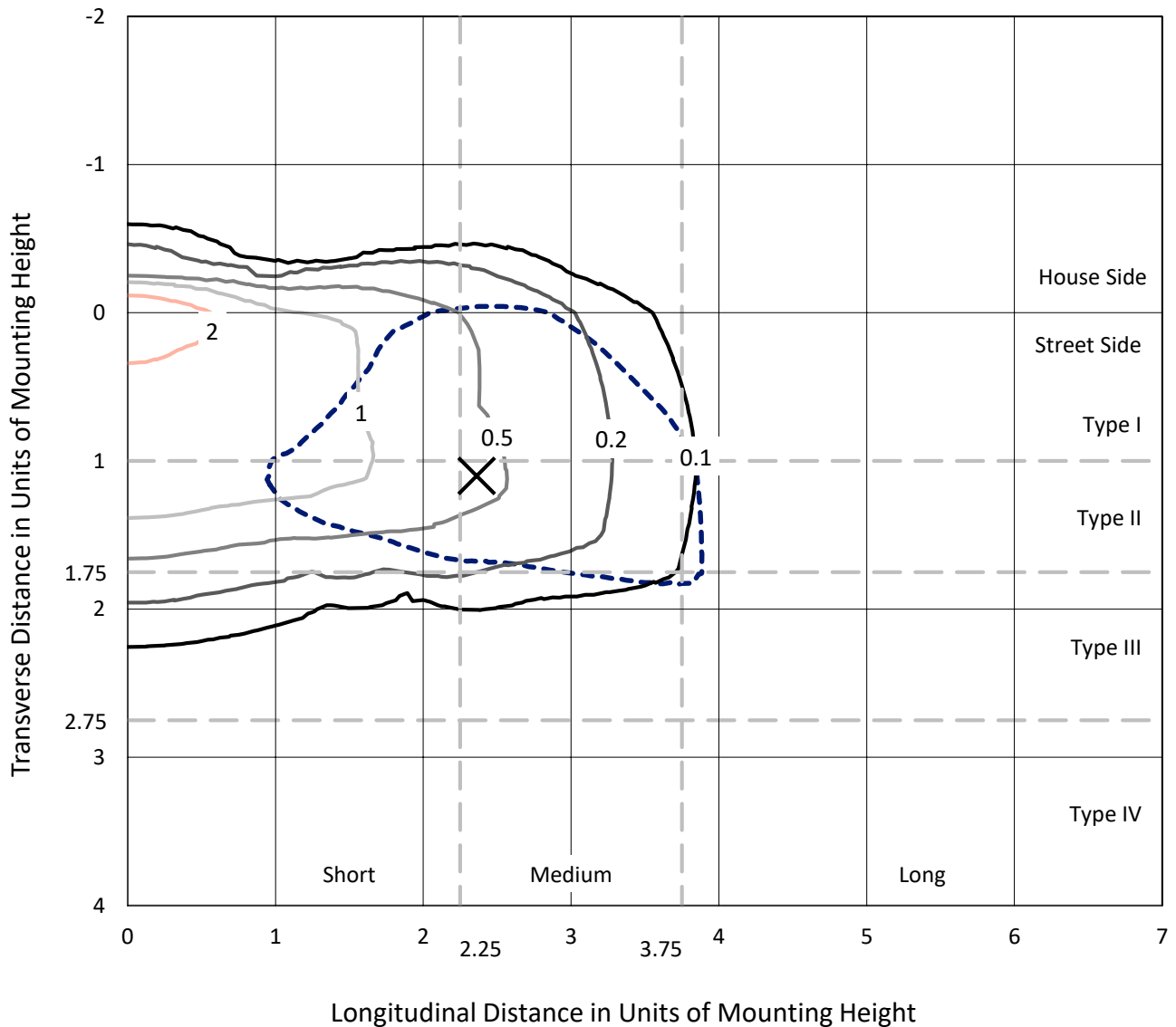
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323226
 CATALOG NUMBER: GAN-SA2A-750-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

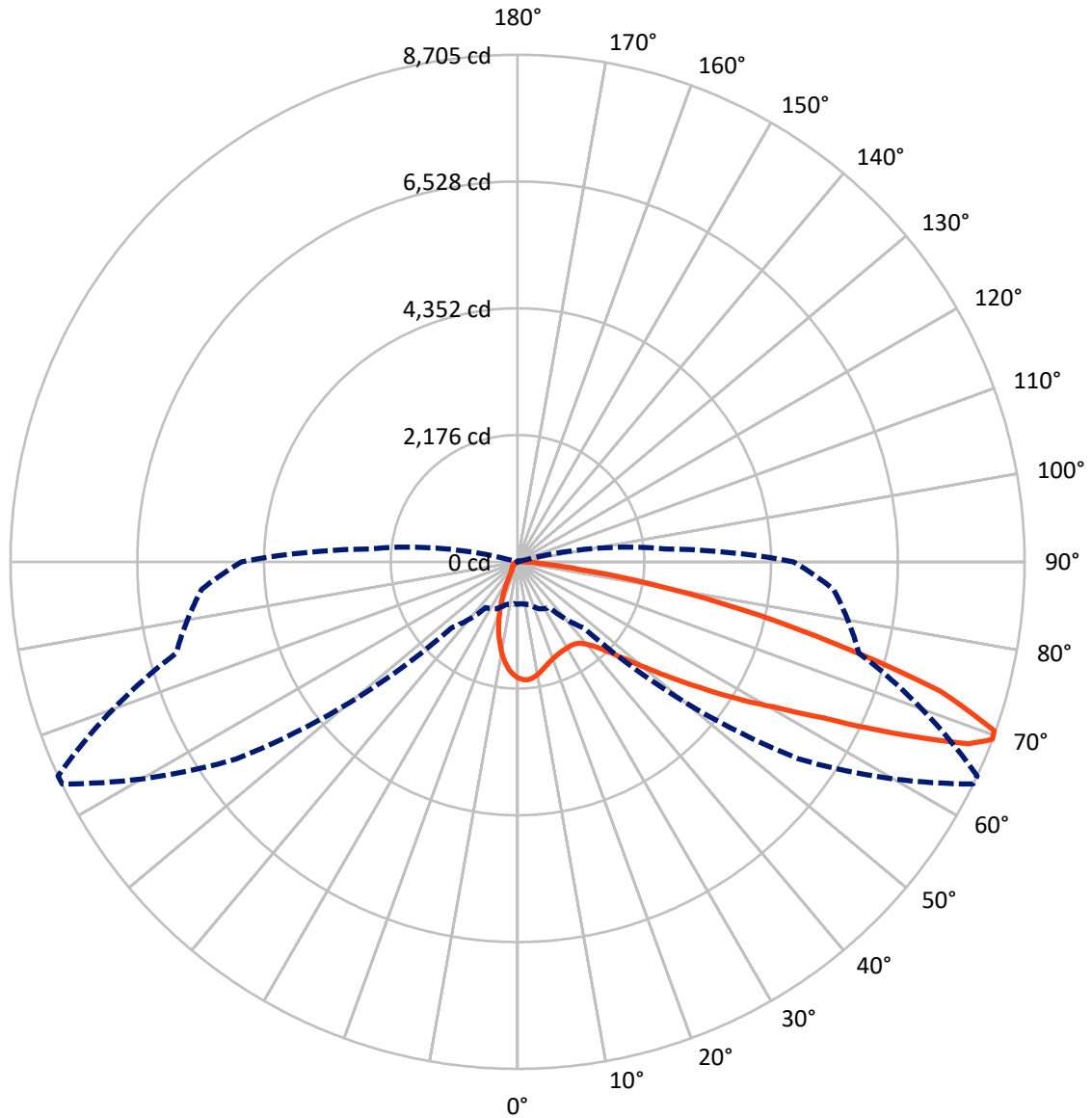
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P323226
CATALOG NUMBER: GAN-SA2A-750-U-SL2-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAN-SA2A-750-U-SL2-HSS

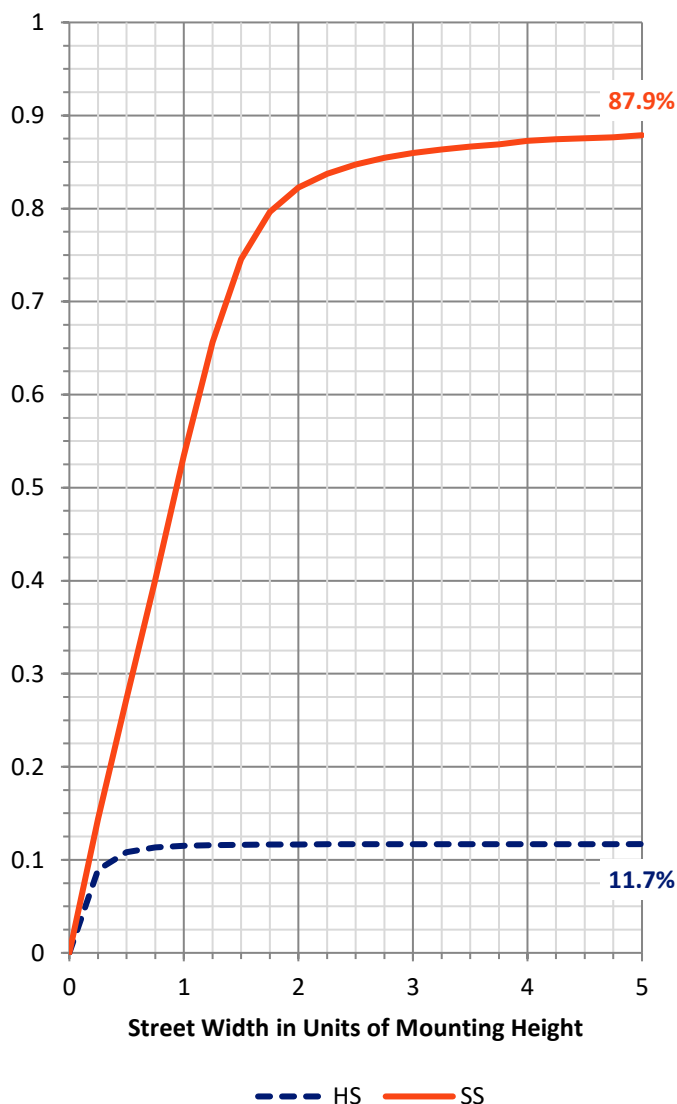
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.9	0.0	930.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6966.1	0.0	6966.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	7897.0	0.0	7897.0
	% 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°	505.9	6.4
30°-40°	705.4	8.9
40°-50°	1096.5	13.9
50°-60°	1760.3	22.3
60°-70°	1991.2	25.2
70°-80°	1169.4	14.8
80°-90°	136.0	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°	7897.0	100.0
0°-180°	7897.0	100.0

Coefficient of Utilization

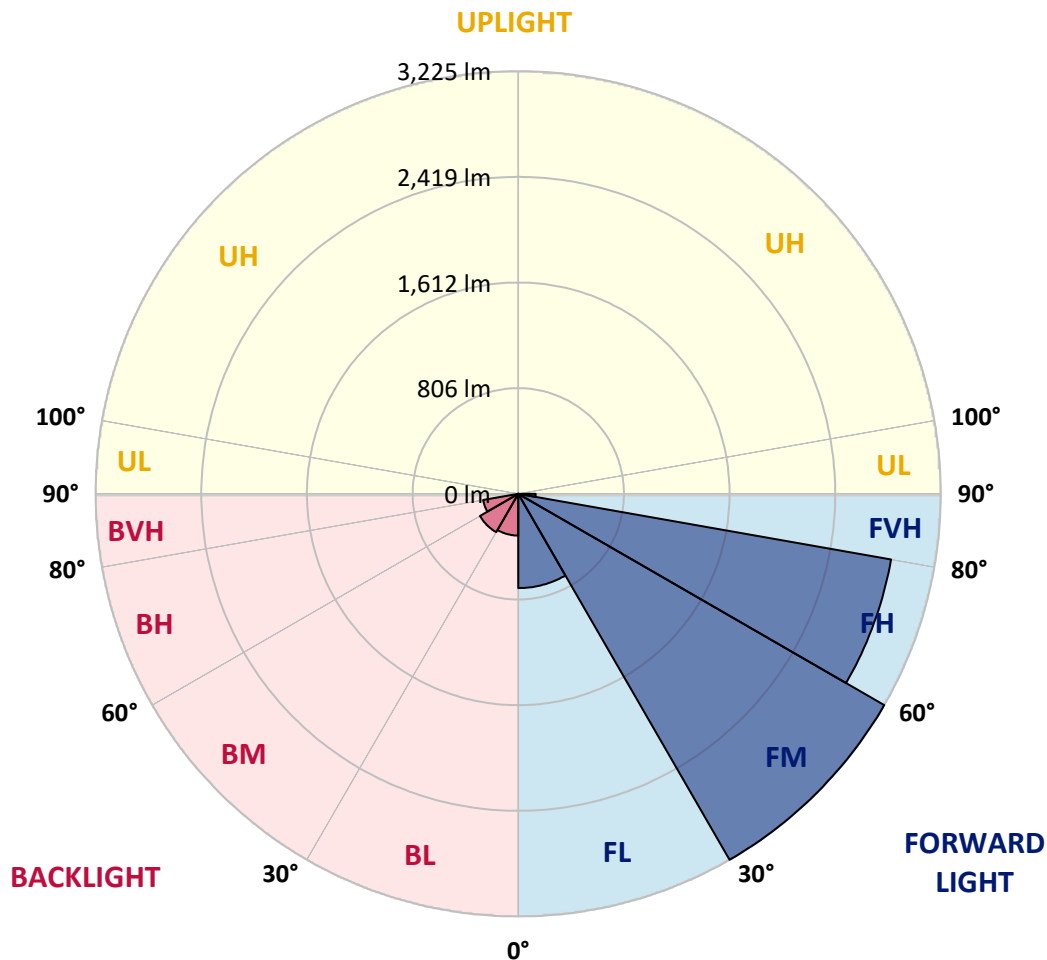


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.6	9.1			
FM (30°-60°)	3224.9	40.8			
FH (60°-80°)	2888.6	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°)	337.3	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





REPORT NUMBER: P323226

CATALOG NUMBER: GAN-SA2A-750-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	2013.3	2008.3	2012.3	2021.0	2025.3	2025.3	2028.7	2024.7	2026.0	2016.3	2002.3
5°	1887.3	1879.6	1890.7	1915.1	1945.1	1970.9	2009.0	2029.0	2031.0	2031.3	2015.0
7.5°	1751.7	1744.6	1761.0	1789.7	1828.5	1876.3	1942.8	2000.9	2004.3	2035.7	2023.7
10°	1641.4	1636.4	1655.4	1686.2	1731.6	1785.1	1866.6	1947.5	1957.2	2026.7	2022.3
12.5°	1553.8	1549.8	1567.9	1603.3	1649.7	1708.9	1794.1	1888.0	1901.0	2006.3	2015.6
15°	1490.0	1489.3	1504.4	1538.5	1589.9	1645.1	1732.3	1832.9	1847.9	1984.2	2014.6
17.5°	1456.6	1457.6	1468.6	1497.7	1541.8	1596.6	1680.1	1786.4	1802.8	1964.5	2019.6
20°	1453.2	1454.3	1460.3	1476.6	1512.4	1560.8	1637.7	1747.3	1764.3	1949.8	2027.7
22.5°	1482.7	1482.0	1483.7	1482.0	1502.0	1538.8	1609.6	1717.2	1736.9	1940.1	2034.0
25°	1539.1	1538.1	1537.5	1525.1	1511.7	1531.4	1597.9	1700.2	1718.9	1933.1	2037.7
27.5°	1617.7	1617.0	1616.0	1595.6	1555.5	1543.1	1599.3	1693.8	1709.5	1927.4	2037.0
30°	1720.9	1725.6	1724.3	1695.8	1633.4	1578.9	1613.3	1690.5	1704.2	1916.4	2030.0
32.5°	1842.2	1851.6	1858.9	1828.5	1750.3	1649.7	1645.7	1694.2	1704.2	1908.0	2017.3
35°	1968.2	1980.2	2007.3	1996.6	1893.7	1756.3	1701.5	1716.2	1724.6	1912.7	2011.3
37.5°	2092.2	2106.5	2165.3	2196.4	2081.5	1897.3	1788.4	1770.7	1775.0	1941.1	2018.0
40°	2236.2	2257.9	2347.1	2397.2	2305.7	2086.1	1918.4	1864.3	1865.9	2003.6	2049.1
42.5°	2425.3	2447.7	2544.3	2622.8	2558.3	2324.7	2094.8	2007.3	2005.6	2120.6	2122.2
45°	2655.9	2679.3	2779.2	2866.4	2837.3	2607.4	2320.7	2216.1	2214.1	2305.0	2260.9
47.5°	2917.2	2940.2	3029.5	3119.4	3150.8	2937.6	2608.4	2501.2	2496.5	2561.3	2475.1
50°	3141.4	3156.4	3238.6	3359.6	3501.3	3343.2	2966.3	2863.1	2858.0	2901.8	2789.5
52.5°	3222.9	3231.6	3315.2	3484.6	3838.1	3892.6	3436.5	3303.5	3299.8	3318.8	3208.2
55°	3057.9	3073.6	3176.2	3427.4	4020.6	4513.5	4029.9	3848.8	3821.1	3780.0	3646.0
57.5°	2608.1	2633.2	2743.4	3077.6	3935.4	5006.0	4902.1	4465.7	4424.9	4173.6	4001.9
60°	1954.2	1984.9	2076.5	2437.0	3480.6	5181.4	5855.1	5153.0	5061.1	4487.1	4329.0
62.5°	1341.0	1356.3	1418.5	1653.4	2563.3	4894.1	6652.4	6073.6	5905.9	4827.9	4682.9
65°	1024.2	1029.5	1054.9	1135.8	1526.4	3975.5	6969.5	7288.3	7085.5	5235.6	5050.1
67.5°	825.4	821.0	856.1	971.7	1022.2	2425.3	6599.6	8437.5	8342.6	5780.6	5419.7
69°	727.8	721.8	757.5	891.9	960.0	1603.3	5899.9	8698.4	8704.5	6068.3	5445.1
70°	654.9	659.0	694.4	844.4	939.0	1258.4	5231.6	8631.9	8679.4	6175.9	5292.7
72.5°	437.4	448.1	519.3	701.1	902.9	952.3	3158.8	7407.3	7589.7	5933.6	4540.9
75°	246.6	254.6	339.2	528.6	850.8	906.9	1668.4	5457.1	5633.6	4961.9	3501.6
77.5°	121.0	125.3	191.8	341.2	711.4	864.1	946.3	3706.8	3908.3	3238.6	1980.5
80°	51.1	53.5	95.9	210.5	508.6	824.7	702.7	2281.3	2306.4	1268.8	527.6
82.5°	19.7	20.4	40.4	131.3	323.1	642.9	587.8	1081.7	1055.6	238.9	120.3
85°	2.3	2.7	14.7	78.9	179.8	330.8	477.5	466.1	431.4	47.5	61.8
87.5°	0.0	0.0	1.0	24.1	53.5	155.0	248.3	193.5	174.4	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



REPORT NUMBER: P323226
 CATALOG NUMBER: GAN-SA2A-750-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6	1995.6
2.5°	1990.6	1987.2	1969.2	1943.1	1918.4	1887.7	1858.2	1840.5	1826.5	1817.1	1828.2
5°	1995.9	1981.2	1926.4	1856.2	1787.4	1709.9	1637.7	1576.6	1552.5	1525.8	1537.8
7.5°	1994.2	1966.5	1867.9	1743.0	1616.7	1486.0	1362.4	1267.1	1217.7	1169.2	1181.6
10°	1985.9	1939.1	1789.7	1604.6	1415.5	1227.7	1052.3	918.9	844.4	776.9	786.6
12.5°	1967.5	1902.4	1697.5	1446.2	1193.3	945.7	740.2	569.4	477.8	437.4	442.4
15°	1956.5	1866.6	1599.9	1285.8	956.0	658.6	452.4	336.5	294.7	281.4	283.0
17.5°	1951.1	1832.2	1499.0	1102.4	713.4	419.4	292.4	258.0	248.9	246.6	247.3
20°	1945.8	1797.4	1395.1	920.9	491.5	282.0	240.3	230.2	226.9	223.9	224.6
22.5°	1936.8	1764.0	1283.5	737.2	331.5	228.9	216.5	206.8	199.8	196.2	196.8
25°	1925.7	1728.9	1169.5	549.0	241.9	204.2	192.5	178.8	170.4	163.7	164.1
27.5°	1908.0	1685.8	1051.9	399.7	203.2	182.8	167.1	152.0	138.0	130.3	130.3
30°	1883.3	1637.0	921.3	286.0	182.1	161.7	142.7	124.0	108.9	101.9	101.2
32.5°	1855.9	1586.2	789.3	216.9	165.4	142.0	120.3	100.6	87.2	81.5	81.2
35°	1832.5	1531.4	657.6	181.8	148.7	123.0	99.2	82.5	71.8	67.2	66.8
37.5°	1817.5	1476.6	529.3	162.4	133.7	105.3	83.2	68.2	60.5	56.8	56.5
40°	1815.1	1435.9	412.0	147.7	119.6	89.6	69.5	57.8	50.8	46.8	46.4
42.5°	1845.5	1412.5	316.1	135.3	105.3	75.9	59.1	49.5	42.1	38.1	37.8
45°	1925.4	1419.8	243.3	124.3	90.9	64.2	50.1	41.1	34.4	31.4	30.7
47.5°	2071.1	1470.6	193.5	113.3	77.2	54.5	42.8	34.1	28.4	25.4	25.1
50°	2330.4	1589.9	161.7	101.2	64.5	46.4	35.4	27.7	23.1	20.4	20.0
52.5°	2674.6	1802.4	144.4	89.6	53.5	39.4	29.1	22.1	18.0	16.0	15.7
55°	3054.2	2059.7	133.0	76.9	43.8	32.7	23.1	17.4	14.0	12.4	11.7
57.5°	3424.8	2282.6	122.3	64.5	36.4	26.7	18.4	13.7	11.0	9.4	9.0
60°	3765.3	2487.5	109.9	51.8	29.7	21.1	14.4	10.7	8.7	7.0	7.0
62.5°	4129.8	2645.9	92.9	40.4	24.4	16.0	11.7	9.7	7.0	6.0	5.7
65°	4516.1	2763.5	72.8	31.4	19.0	12.0	9.7	10.0	5.7	4.3	4.0
67.5°	4801.5	2740.1	53.8	24.7	14.7	9.4	9.4	10.7	5.0	3.3	3.0
69°	4738.7	2550.0	45.1	21.4	12.7	8.0	8.7	10.7	4.7	3.0	2.7
70°	4556.6	2339.4	39.8	19.0	11.4	7.4	8.4	10.4	4.3	3.0	2.7
72.5°	3794.7	1762.0	31.1	14.4	9.0	6.0	7.0	9.0	4.3	3.0	2.3
75°	2854.4	1127.8	23.7	10.4	6.7	4.7	5.3	6.7	4.3	2.7	2.3
77.5°	1553.2	406.7	17.0	7.0	4.7	3.7	3.7	5.0	4.0	2.0	1.3
80°	399.3	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)