

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: P319386

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319386
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-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 9341 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

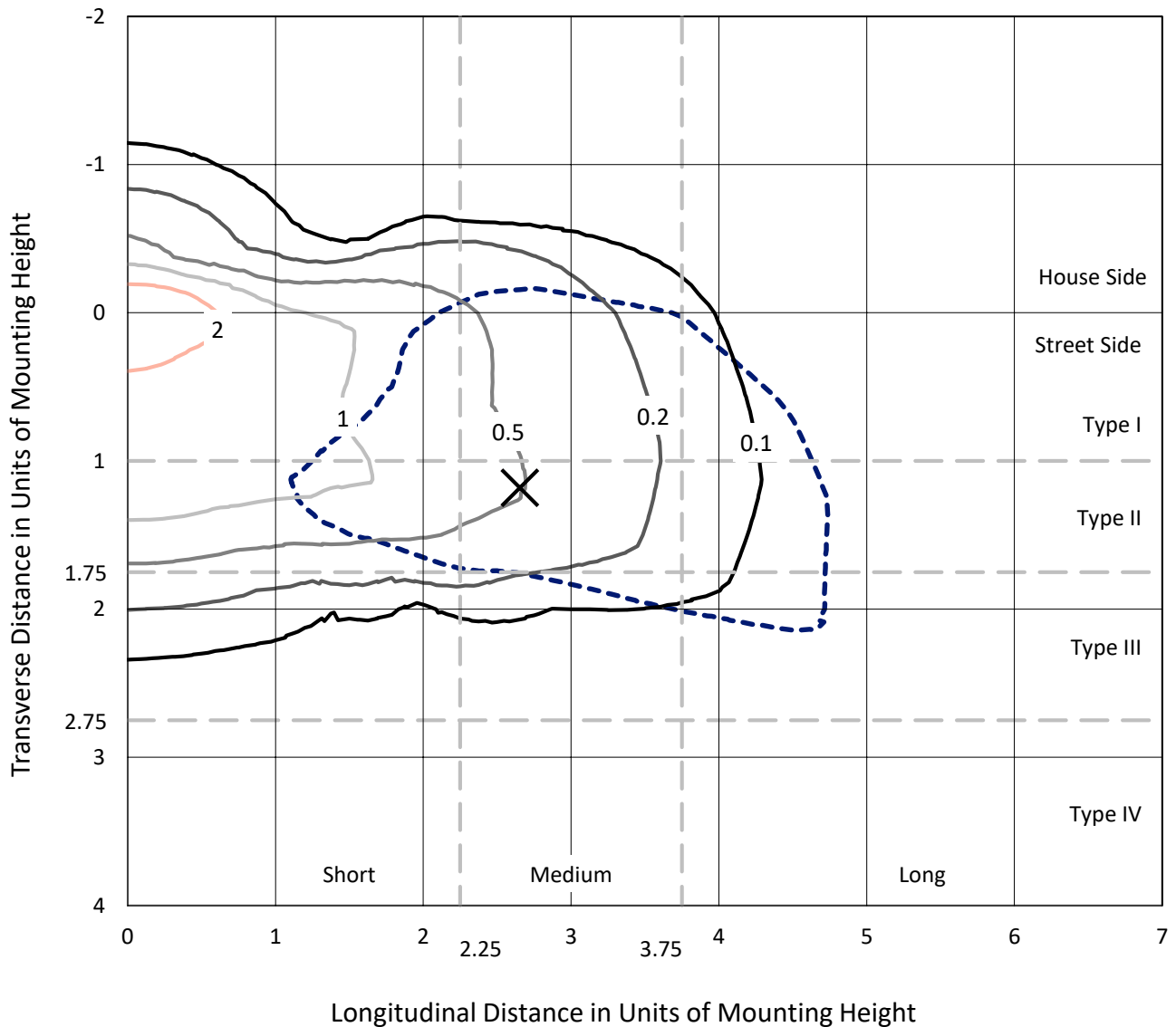
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

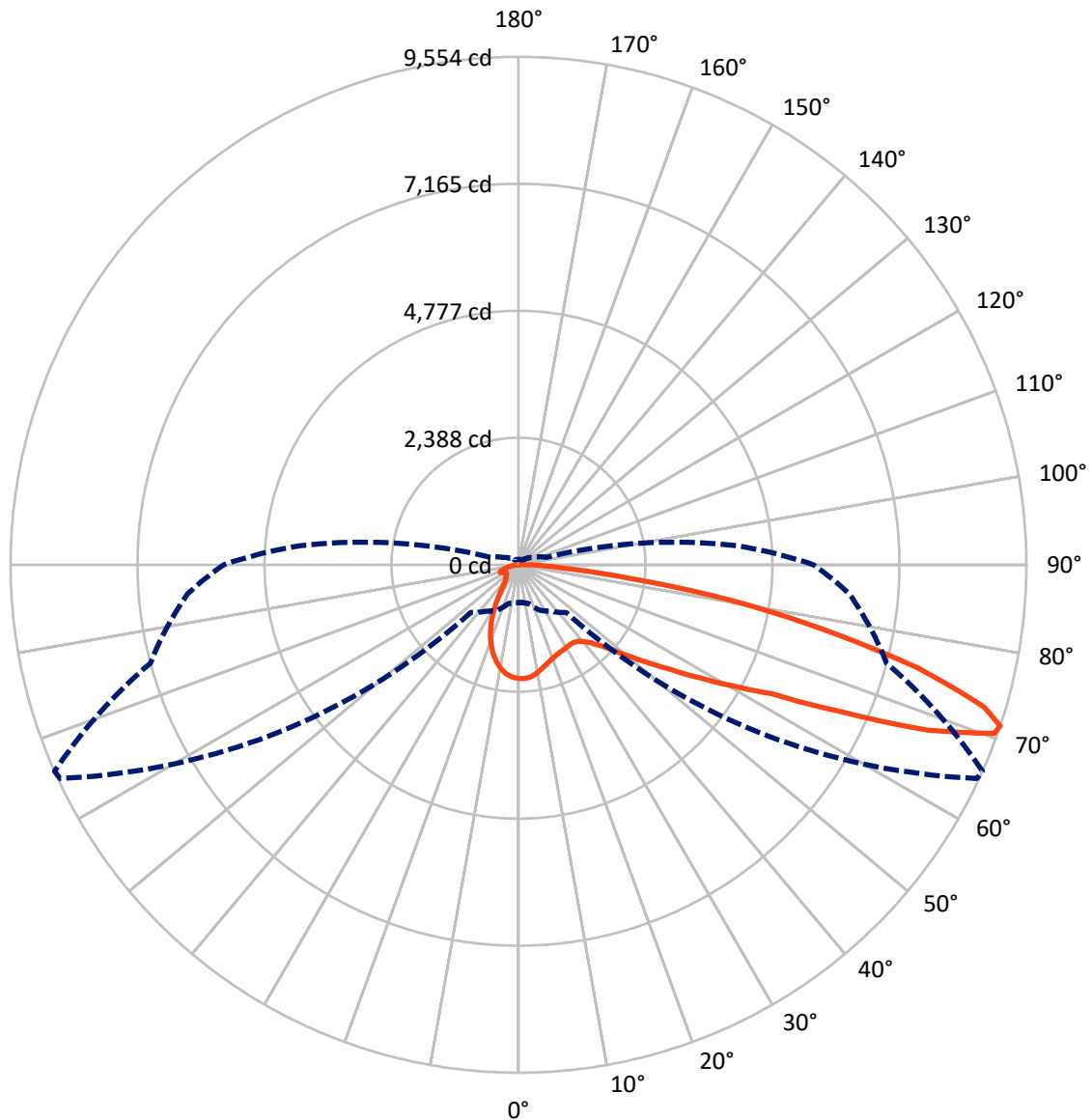
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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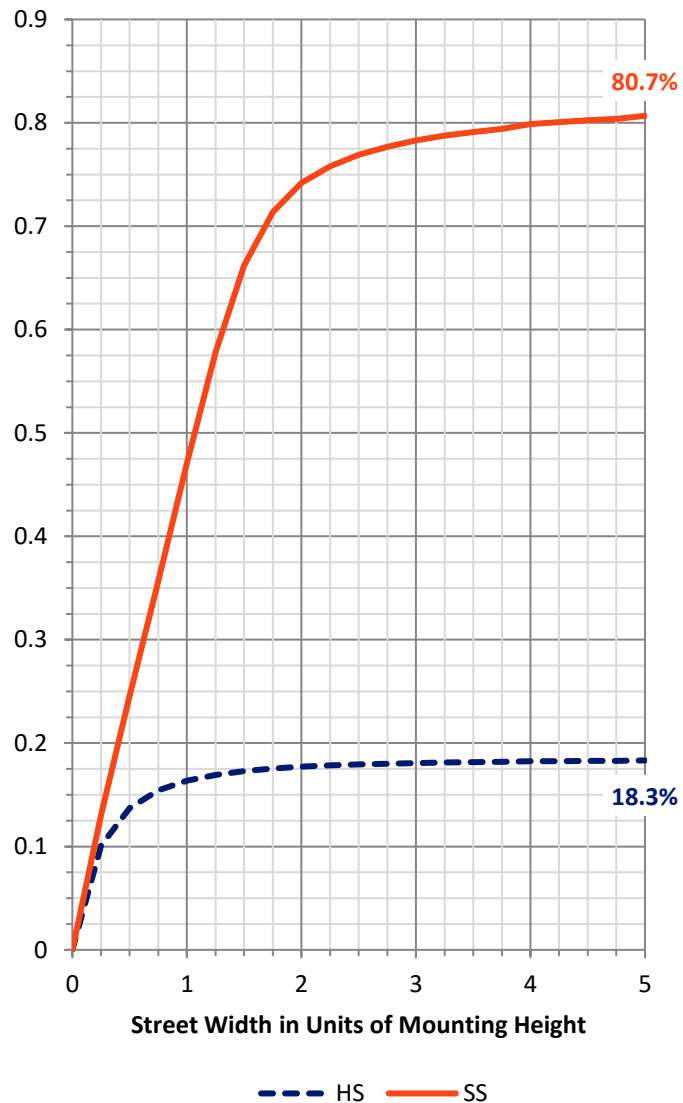
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1731.1	0.0	1731.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7609.9	0.0	7609.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	9341.0	0.0	9341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.4	2.0
10°-20°	451.8	4.8
20°-30°	606.8	6.5
30°-40°	798.3	8.5
40°-50°	1161.3	12.4
50°-60°	1814.0	19.4
60°-70°	2272.4	24.3
70°-80°	1733.3	18.6
80°-90°	314.7	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°	9341.0	100.0
0°-180°	9341.0	100.0

Coefficient of Utilization

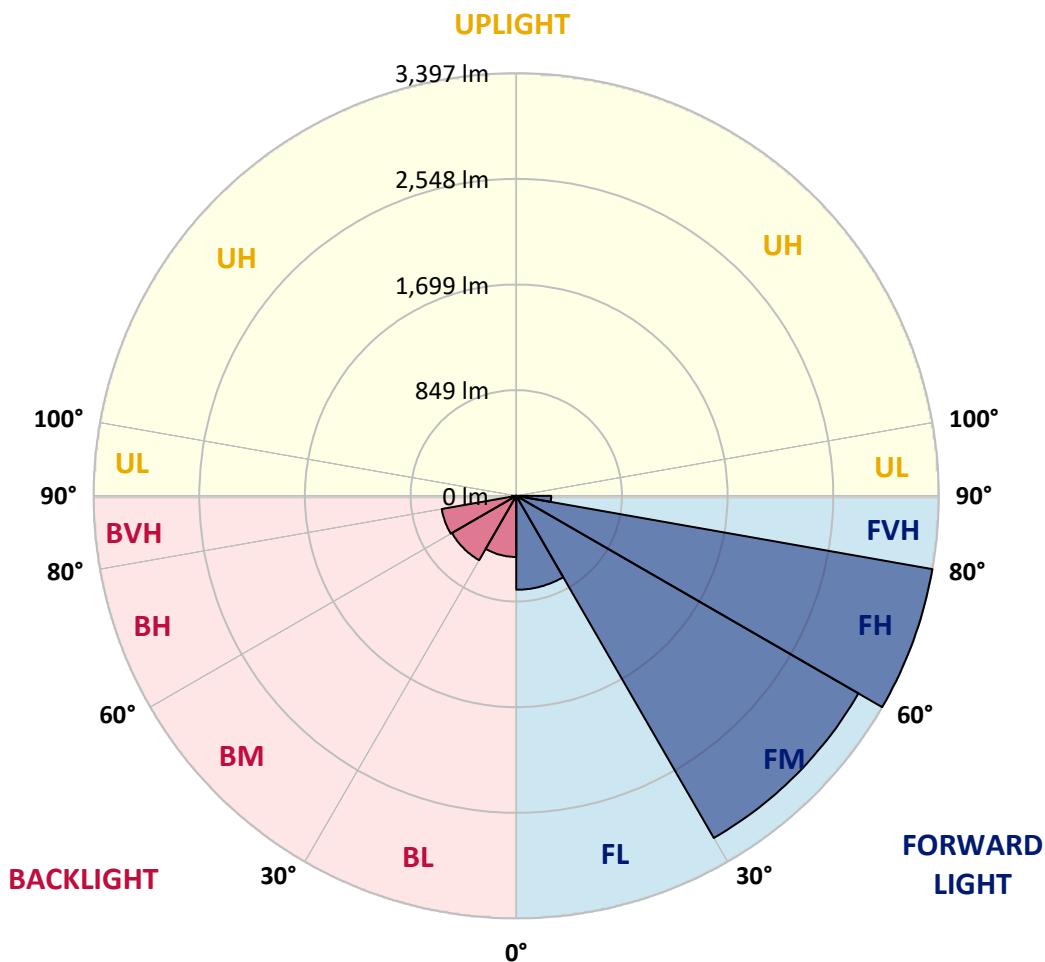


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.3	8.1			
FM (30°-60°)	3176.4	34.0			
FH (60°-80°)	3397.4	36.4			G2/5000
FVH (80°-90°)	280.7	3.0			G3/500
BL (0°-30°)	491.6	5.3	B1/500		
BM (30°-60°)	597.2	6.4	B1/1000		
BH (60°-80°)	608.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	34.1	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°	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8
2.5°	2100.2	2096.9	2106.6	2116.6	2120.5	2126.9	2136.6	2142.1	2141.8	2142.7	2139.5
5°	1960.9	1956.7	1976.0	1991.8	2022.1	2056.3	2097.9	2127.6	2128.2	2145.0	2149.5
7.5°	1828.9	1826.0	1848.3	1873.8	1908.9	1961.2	2028.6	2092.4	2096.3	2141.8	2157.6
10°	1723.2	1722.5	1744.1	1771.9	1812.8	1871.2	1948.6	2042.1	2047.9	2126.3	2158.9
12.5°	1640.6	1641.9	1660.6	1692.2	1735.4	1796.4	1880.2	1985.7	1995.0	2101.8	2151.5
15°	1579.6	1584.8	1600.0	1631.9	1674.5	1736.4	1822.5	1933.4	1947.6	2074.4	2147.3
17.5°	1544.8	1550.6	1561.3	1587.7	1627.7	1687.4	1769.0	1890.5	1903.4	2053.4	2147.6
20°	1534.5	1539.3	1545.5	1561.6	1595.4	1649.6	1726.7	1851.8	1865.7	2036.6	2150.8
22.5°	1554.8	1558.4	1559.0	1557.7	1578.4	1622.5	1696.1	1823.5	1838.3	2025.7	2153.1
25°	1598.4	1603.2	1599.6	1587.7	1580.9	1608.0	1680.3	1804.8	1819.6	2017.6	2148.5
27.5°	1663.8	1664.5	1661.6	1646.1	1614.2	1609.6	1675.4	1793.8	1808.0	2008.3	2139.2
30°	1752.8	1757.0	1751.9	1730.9	1678.7	1635.4	1681.2	1783.1	1796.0	1996.3	2124.0
32.5°	1857.0	1867.3	1867.0	1845.1	1770.2	1693.2	1705.1	1776.7	1786.7	1983.7	2105.7
35°	1965.0	1979.2	2005.7	1996.3	1903.8	1784.4	1750.9	1787.0	1793.8	1982.1	2092.8
37.5°	2077.3	2091.5	2146.0	2171.1	2062.8	1915.1	1823.1	1823.5	1826.7	2001.8	2091.8
40°	2194.7	2209.8	2291.7	2357.2	2268.8	2080.5	1939.6	1899.6	1896.0	2050.2	2110.8
42.5°	2359.1	2372.7	2471.1	2554.6	2497.5	2292.4	2100.5	2017.0	2009.5	2145.0	2171.8
45°	2567.2	2578.8	2683.3	2772.6	2743.3	2534.3	2302.7	2178.5	2177.3	2303.0	2295.3
47.5°	2814.5	2823.6	2917.4	3003.8	3014.5	2812.6	2556.8	2427.8	2406.9	2519.8	2486.5
50°	3072.2	3082.2	3146.1	3239.0	3318.0	3185.1	2883.9	2733.3	2705.2	2805.8	2757.4
52.5°	3242.8	3256.0	3311.5	3429.2	3659.2	3593.4	3270.6	3103.5	3060.9	3152.5	3115.4
55°	3166.7	3196.4	3281.2	3469.9	3932.0	4217.1	3747.5	3535.3	3487.3	3563.4	3541.5
57.5°	2820.7	2861.3	2977.1	3268.3	3970.4	4766.7	4468.7	4043.9	4010.1	3988.1	3998.1
60°	2188.2	2227.2	2370.8	2750.4	3703.0	5167.9	5553.9	4670.9	4621.9	4414.5	4423.5
62.5°	1548.7	1529.0	1627.4	1905.1	3009.0	5215.0	6788.8	5509.4	5348.2	4864.7	4825.0
65°	1181.0	1176.5	1220.7	1309.1	1822.5	4651.5	7524.4	6918.8	6666.9	5394.3	5300.7
67.5°	970.4	962.4	1005.9	1134.6	1173.6	3000.9	7540.6	8553.9	8306.5	6053.5	5850.9
70°	797.9	788.9	829.5	995.6	1084.6	1521.9	6346.3	9511.4	9498.2	6888.1	6266.3
71°	715.3	708.9	757.6	942.0	1065.6	1268.4	5479.4	9514.0	9553.7	7170.6	6241.8
72.5°	582.4	584.7	636.3	838.5	1051.4	1120.1	4027.2	9070.5	9154.4	7439.9	6019.0
75°	387.0	388.9	456.7	645.0	1019.4	1095.9	2213.4	7611.2	7765.4	7278.7	5492.3
77.5°	259.9	259.3	305.4	442.5	888.2	1095.9	1297.8	5692.6	5861.9	5791.6	4234.2
80°	179.0	177.7	210.3	305.4	672.4	1109.1	1003.3	3989.4	4040.7	3127.7	1720.9
82.5°	109.7	110.6	137.4	215.8	457.6	998.2	947.2	2175.3	2119.5	877.2	429.9
85°	62.9	62.6	87.7	146.1	293.8	842.4	923.7	936.2	858.8	264.1	155.4
87.5°	22.6	24.2	47.1	80.9	168.3	586.6	783.7	487.0	438.9	119.3	70.3
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°	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8	2139.8
2.5°	2137.3	2139.2	2136.9	2124.0	2113.1	2095.3	2085.3	2071.5	2067.3	2065.3	2070.5
5°	2145.3	2146.0	2126.9	2093.1	2055.0	2010.2	1977.9	1938.3	1919.6	1911.5	1916.7
7.5°	2152.7	2149.8	2108.2	2043.4	1973.1	1895.1	1825.7	1762.2	1725.1	1709.9	1711.2
10°	2153.7	2141.5	2074.7	1974.4	1865.4	1750.9	1644.5	1546.4	1484.5	1444.2	1456.4
12.5°	2143.7	2123.1	2025.4	1885.1	1733.8	1577.7	1433.9	1286.8	1198.4	1157.5	1158.8
15°	2136.0	2098.6	1964.7	1779.9	1576.7	1370.0	1173.6	1000.7	906.6	864.6	845.0
17.5°	2129.5	2072.1	1894.4	1661.6	1391.3	1129.1	893.0	738.9	687.3	675.0	669.8
20°	2120.5	2044.1	1816.0	1524.5	1180.1	859.5	652.1	576.0	576.3	590.5	592.4
22.5°	2107.9	2012.1	1732.5	1370.7	953.3	626.0	511.2	489.2	511.5	538.6	543.4
25°	2089.2	1974.4	1639.6	1200.7	726.9	481.2	436.7	435.7	462.8	491.2	495.4
27.5°	2062.8	1925.1	1536.4	1018.2	535.7	408.9	391.2	398.0	418.0	438.6	440.2
30°	2027.3	1867.6	1422.6	825.6	419.9	364.1	362.2	368.3	380.6	395.1	396.4
32.5°	1988.3	1809.3	1301.0	639.2	359.6	339.9	341.9	344.8	350.6	356.4	357.7
35°	1952.8	1749.6	1176.5	485.7	330.9	324.1	322.8	322.2	322.8	320.9	321.2
37.5°	1929.9	1700.3	1046.9	386.7	314.4	310.3	306.4	301.5	296.1	292.8	293.5
40°	1921.5	1663.5	915.6	334.1	300.9	298.0	290.6	280.3	273.8	271.9	271.9
42.5°	1944.1	1644.5	788.9	307.7	289.6	284.8	272.5	260.6	255.7	255.4	255.1
45°	2013.1	1652.2	668.2	293.2	279.3	269.9	253.8	243.8	240.6	241.2	240.9
47.5°	2136.9	1700.9	565.0	283.5	269.0	256.7	238.7	230.6	226.7	226.7	227.0
50°	2347.5	1814.8	482.8	275.4	260.3	244.5	227.7	217.7	212.5	212.2	212.2
52.5°	2654.2	2018.6	431.5	268.6	250.6	233.5	216.7	204.1	198.0	196.7	196.1
55°	3038.7	2310.8	417.3	264.1	237.7	221.6	203.5	190.9	184.2	181.2	180.9
57.5°	3468.6	2666.2	445.4	258.7	224.5	207.4	189.0	177.1	170.0	166.4	166.1
60°	3903.6	3054.2	559.9	250.9	213.5	191.9	174.2	163.2	156.1	152.2	151.6
62.5°	4339.3	3463.1	793.7	250.3	205.8	177.1	159.0	149.6	142.9	138.7	137.7
65°	4830.9	3910.7	1059.4	267.4	203.2	163.5	143.5	136.1	130.3	126.4	126.1
67.5°	5395.2	4416.1	1034.0	302.5	211.9	151.3	129.0	123.2	119.0	115.8	115.5
70°	5660.0	4337.1	642.8	327.3	224.1	139.3	115.1	110.9	107.7	105.5	104.5
71°	5549.1	4118.1	538.9	324.4	222.9	134.2	109.7	106.4	103.2	101.3	100.3
72.5°	5246.6	3755.6	449.6	301.9	208.3	124.8	102.6	99.3	96.4	94.2	93.5
75°	4708.0	3354.1	359.9	241.2	166.1	105.5	90.0	86.4	84.2	82.9	81.6
77.5°	3460.8	2393.7	278.3	190.6	122.2	86.1	76.8	74.2	71.9	70.0	69.0
80°	1325.8	927.2	187.4	142.2	89.7	68.0	61.9	60.6	58.4	57.1	57.1
82.5°	357.0	277.0	100.0	86.1	60.0	49.7	47.4	46.8	44.8	42.2	42.6
85°	144.5	122.2	56.1	47.4	36.8	29.3	31.9	32.3	30.0	26.8	27.1
87.5°	63.5	51.9	31.3	21.0	16.1	11.3	14.5	14.5	13.2	11.0	10.0
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)