

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: P323146

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323146
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-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 7192 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

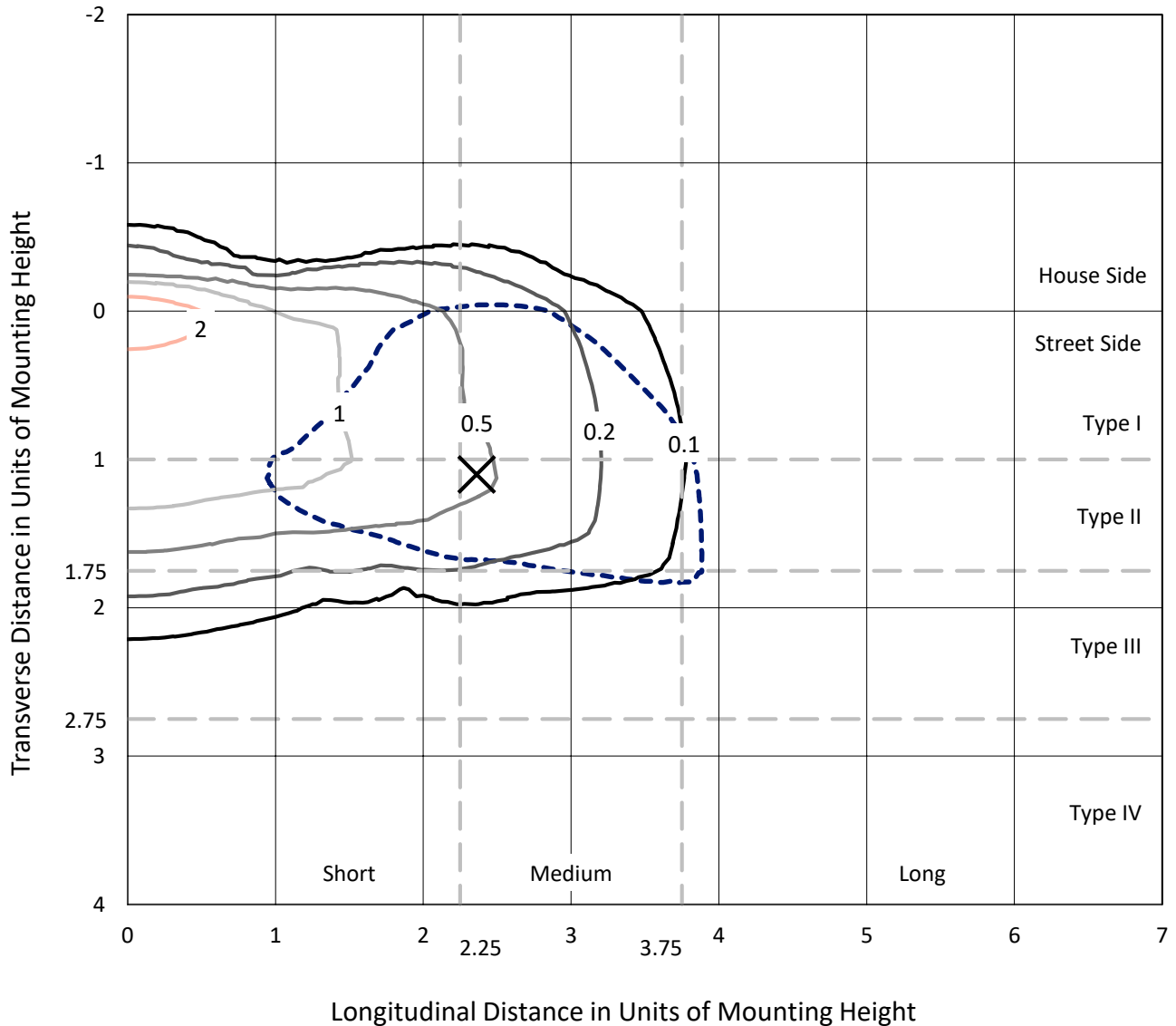
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323146
 CATALOG NUMBER: GAN-SA2A-730-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

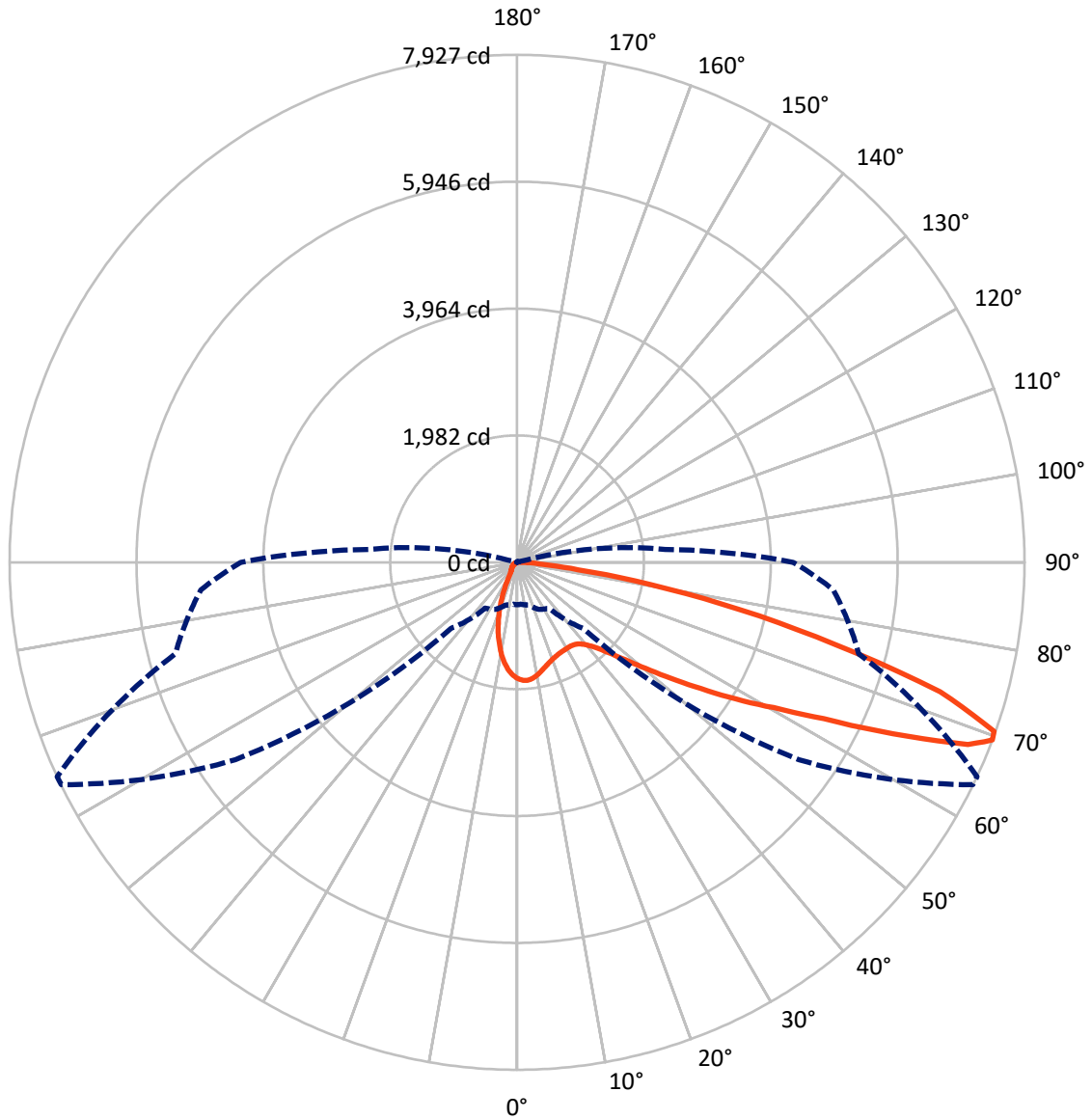
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P323146
CATALOG NUMBER: GAN-SA2A-730-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P323146
 CATALOG NUMBER: GAN-SA2A-730-U-SL2-HSS

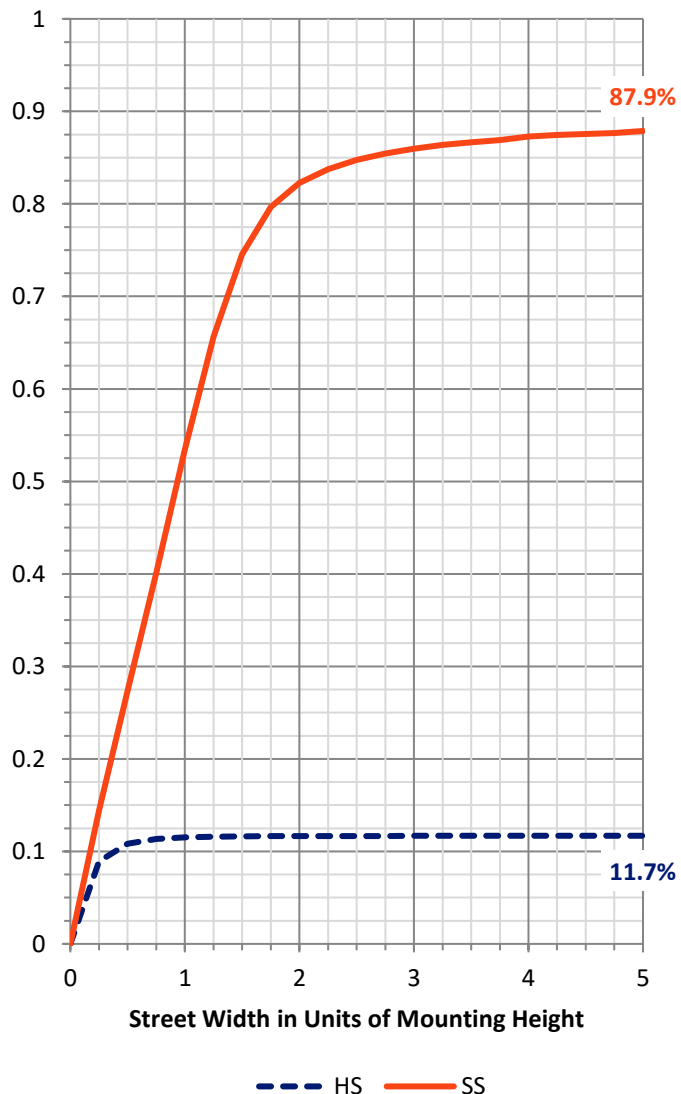
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.8	0.0	847.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6344.2	0.0	6344.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	7192.0	0.0	7192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	2.1
10°-20°	332.7	4.6
20°-30°	460.8	6.4
30°-40°	642.5	8.9
40°-50°	998.6	13.9
50°-60°	1603.1	22.3
60°-70°	1813.4	25.2
70°-80°	1065.0	14.8
80°-90°	123.9	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°	7192.0	100.0
0°-180°	7192.0	100.0

Coefficient of Utilization

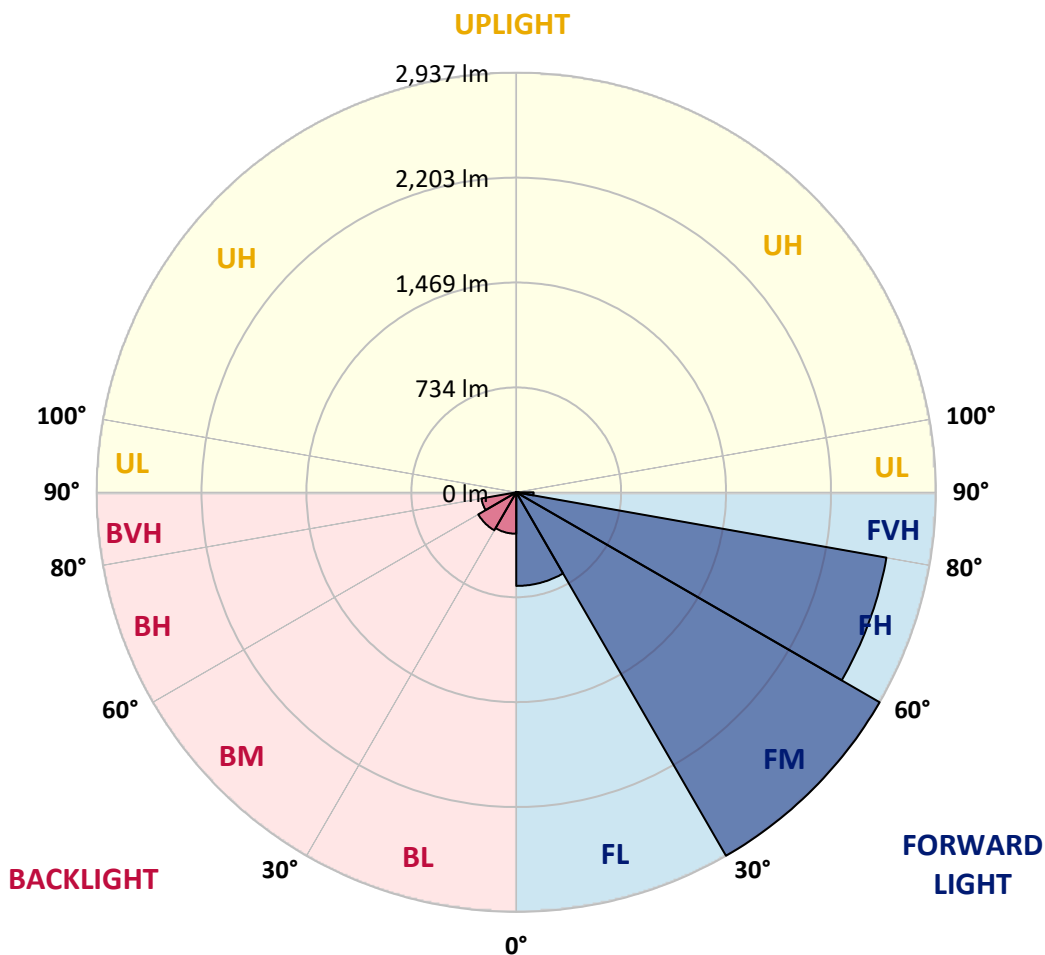


REPORT NUMBER: P323146
 CATALOG NUMBER: GAN-SA2A-730-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.4	9.1			
FM (30°-60°)	2937.0	40.8			
FH (60°-80°)	2630.8	36.6			G2/5000
FVH (80°-90°)	121.1	1.7			G2/225
BL (0°-30°)	290.1	4.0	B1/500		
BM (30°-60°)	307.2	4.3	B1/1000		
BH (60°-80°)	247.7	3.4	B1/500		G1/500
BVH (80°-90°)	2.8	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: P323146
 CATALOG NUMBER: GAN-SA2A-730-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4
2.5°	1833.6	1829.0	1832.6	1840.6	1844.5	1844.5	1847.6	1843.9	1845.1	1836.3	1823.5
5°	1718.8	1711.8	1721.9	1744.1	1771.5	1794.9	1829.6	1847.9	1849.7	1850.0	1835.1
7.5°	1595.3	1588.9	1603.8	1630.0	1665.3	1708.8	1769.3	1822.3	1825.3	1854.0	1843.0
10°	1494.8	1490.3	1507.6	1535.6	1577.0	1625.7	1700.0	1773.6	1782.4	1845.7	1841.8
12.5°	1415.1	1411.5	1427.9	1460.2	1502.5	1556.3	1633.9	1719.4	1731.3	1827.2	1835.7
15°	1357.0	1356.4	1370.1	1401.1	1448.0	1498.2	1577.6	1669.2	1682.9	1807.1	1834.8
17.5°	1326.6	1327.5	1337.5	1364.0	1404.2	1454.1	1530.1	1626.9	1641.8	1789.1	1839.3
20°	1323.5	1324.4	1329.9	1344.8	1377.4	1421.5	1491.5	1591.3	1606.8	1775.7	1846.6
22.5°	1350.3	1349.7	1351.2	1349.7	1367.9	1401.4	1465.9	1563.9	1581.9	1766.9	1852.4
25°	1401.7	1400.8	1400.2	1388.9	1376.8	1394.7	1455.3	1548.4	1565.4	1760.5	1855.8
27.5°	1473.2	1472.6	1471.7	1453.2	1416.6	1405.4	1456.5	1542.6	1556.9	1755.3	1855.2
30°	1567.3	1571.5	1570.3	1544.5	1487.5	1437.9	1469.3	1539.6	1552.1	1745.3	1848.8
32.5°	1677.7	1686.3	1693.0	1665.3	1594.1	1502.5	1498.8	1542.9	1552.1	1737.7	1837.2
35°	1792.5	1803.4	1828.1	1818.3	1724.6	1599.5	1549.6	1563.0	1570.6	1742.0	1831.7
37.5°	1905.4	1918.5	1972.0	2000.3	1895.6	1728.0	1628.7	1612.6	1616.6	1767.8	1837.8
40°	2036.5	2056.3	2137.6	2183.2	2099.8	1899.9	1747.1	1697.8	1699.4	1824.7	1866.1
42.5°	2208.8	2229.2	2317.1	2388.6	2329.9	2117.2	1907.8	1828.1	1826.6	1931.2	1932.8
45°	2418.8	2440.1	2531.1	2610.5	2584.0	2374.7	2113.5	2018.3	2016.5	2099.2	2059.1
47.5°	2656.8	2677.8	2759.0	2840.9	2869.5	2675.3	2375.6	2277.9	2273.6	2332.7	2254.1
50°	2861.0	2874.7	2949.5	3059.7	3188.7	3044.8	2701.5	2607.5	2602.9	2642.8	2540.5
52.5°	2935.2	2943.1	3019.2	3173.5	3495.5	3545.1	3129.7	3008.6	3005.2	3022.6	2921.8
55°	2784.9	2799.2	2892.6	3121.5	3661.6	4110.5	3670.2	3505.2	3480.0	3442.5	3320.5
57.5°	2375.3	2398.1	2498.5	2802.8	3584.0	4559.1	4464.5	4067.0	4029.9	3801.0	3644.6
60°	1779.7	1807.7	1891.1	2219.4	3169.9	4718.9	5332.4	4693.0	4609.3	4086.5	3942.5
62.5°	1221.3	1235.3	1291.9	1505.8	2334.5	4457.1	6058.5	5531.4	5378.6	4396.9	4264.8
65°	932.8	937.6	960.8	1034.4	1390.2	3620.6	6347.3	6637.6	6452.9	4768.2	4599.3
67.5°	751.7	747.7	779.7	885.0	930.9	2208.8	6010.4	7684.2	7597.8	5264.5	4935.9
69°	662.8	657.3	689.9	812.2	874.3	1460.2	5373.2	7921.9	7927.4	5526.5	4959.0
70°	596.5	600.1	632.4	769.0	855.2	1146.1	4764.5	7861.3	7904.5	5624.5	4820.2
72.5°	398.4	408.1	472.9	638.5	822.3	867.3	2876.8	6746.0	6912.1	5403.9	4135.5
75°	224.6	231.9	308.9	481.4	774.8	825.9	1519.5	4969.9	5130.6	4518.9	3189.0
77.5°	110.2	114.1	174.7	310.7	647.9	787.0	861.8	3375.9	3559.4	2949.5	1803.7
80°	46.6	48.7	87.3	191.7	463.2	751.1	640.0	2077.6	2100.5	1155.5	480.5
82.5°	18.0	18.6	36.8	119.6	294.3	585.5	535.3	985.1	961.4	217.6	109.6
85°	2.1	2.4	13.4	71.8	163.7	301.3	434.9	424.5	392.9	43.2	56.3
87.5°	0.0	0.0	0.9	21.9	48.7	141.2	226.1	176.2	158.9	14.0	29.2
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: P323146
 CATALOG NUMBER: GAN-SA2A-730-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4	1817.4
2.5°	1812.9	1809.8	1793.4	1769.7	1747.1	1719.1	1692.4	1676.2	1663.4	1654.9	1665.0
5°	1817.7	1804.3	1754.4	1690.5	1627.8	1557.2	1491.5	1435.8	1413.9	1389.5	1400.5
7.5°	1816.2	1791.0	1701.2	1587.4	1472.3	1353.3	1240.7	1154.0	1109.0	1064.8	1076.1
10°	1808.6	1766.0	1630.0	1461.4	1289.1	1118.1	958.3	836.9	769.0	707.6	716.4
12.5°	1791.9	1732.5	1546.0	1317.1	1086.7	861.2	674.1	518.6	435.2	398.4	402.9
15°	1781.8	1700.0	1457.1	1171.0	870.7	599.8	412.1	306.5	268.4	256.2	257.8
17.5°	1777.0	1668.6	1365.2	1004.0	649.7	381.9	266.3	234.9	226.7	224.6	225.2
20°	1772.1	1637.0	1270.6	838.7	447.7	256.9	218.8	209.7	206.6	203.9	204.5
22.5°	1763.9	1606.5	1168.9	671.3	301.9	208.5	197.2	188.4	182.0	178.6	179.2
25°	1753.8	1574.6	1065.1	500.0	220.3	185.9	175.3	162.8	155.2	149.1	149.4
27.5°	1737.7	1535.3	958.0	364.0	185.0	166.5	152.2	138.5	125.7	118.7	118.7
30°	1715.2	1490.9	839.0	260.5	165.9	147.3	129.9	112.9	99.2	92.8	92.2
32.5°	1690.2	1444.6	718.8	197.5	150.6	129.3	109.6	91.6	79.4	74.3	74.0
35°	1668.9	1394.7	598.9	165.6	135.4	112.0	90.4	75.2	65.4	61.2	60.9
37.5°	1655.2	1344.8	482.1	147.9	121.7	95.9	75.8	62.1	55.1	51.7	51.4
40°	1653.1	1307.7	375.2	134.5	108.9	81.6	63.3	52.6	46.3	42.6	42.3
42.5°	1680.8	1286.4	287.9	123.3	95.9	69.1	53.9	45.0	38.3	34.7	34.4
45°	1753.5	1293.1	221.5	113.2	82.8	58.4	45.6	37.4	31.3	28.6	28.0
47.5°	1886.2	1339.3	176.2	103.2	70.3	49.6	39.0	31.0	25.9	23.1	22.8
50°	2122.4	1448.0	147.3	92.2	58.7	42.3	32.3	25.3	21.0	18.6	18.3
52.5°	2435.8	1641.5	131.5	81.6	48.7	35.9	26.5	20.1	16.4	14.6	14.3
55°	2781.5	1875.9	121.1	70.0	39.9	29.8	21.0	15.8	12.8	11.3	10.7
57.5°	3119.0	2078.8	111.4	58.7	33.2	24.3	16.7	12.5	10.0	8.5	8.2
60°	3429.1	2265.4	100.1	47.2	27.1	19.2	13.1	9.7	7.9	6.4	6.4
62.5°	3761.2	2409.6	84.6	36.8	22.2	14.6	10.7	8.8	6.4	5.5	5.2
65°	4113.0	2516.8	66.3	28.6	17.3	11.0	8.8	9.1	5.2	4.0	3.7
67.5°	4372.9	2495.5	49.0	22.5	13.4	8.5	8.5	9.7	4.6	3.0	2.7
69°	4315.6	2322.3	41.1	19.5	11.6	7.3	7.9	9.7	4.3	2.7	2.4
70°	4149.8	2130.6	36.2	17.3	10.3	6.7	7.6	9.4	4.0	2.7	2.4
72.5°	3455.9	1604.7	28.3	13.1	8.2	5.5	6.4	8.2	4.0	2.7	2.1
75°	2599.5	1027.1	21.6	9.4	6.1	4.3	4.9	6.1	4.0	2.4	2.1
77.5°	1414.5	370.4	15.5	6.4	4.3	3.3	3.3	4.6	3.7	1.8	1.2
80°	363.7	93.1	9.7	4.3	3.3	2.4	2.1	3.0	2.1	0.3	0.0
82.5°	89.8	21.0	5.2	3.0	2.4	0.9	0.9	1.5	0.9	0.0	0.0
85°	49.3	10.3	3.3	2.1	1.2	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	25.3	3.0	0.9	0.6	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)