

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: P319415

Luminaire Tested: **GAN-SA1D-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319415
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-SA1D-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7958 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

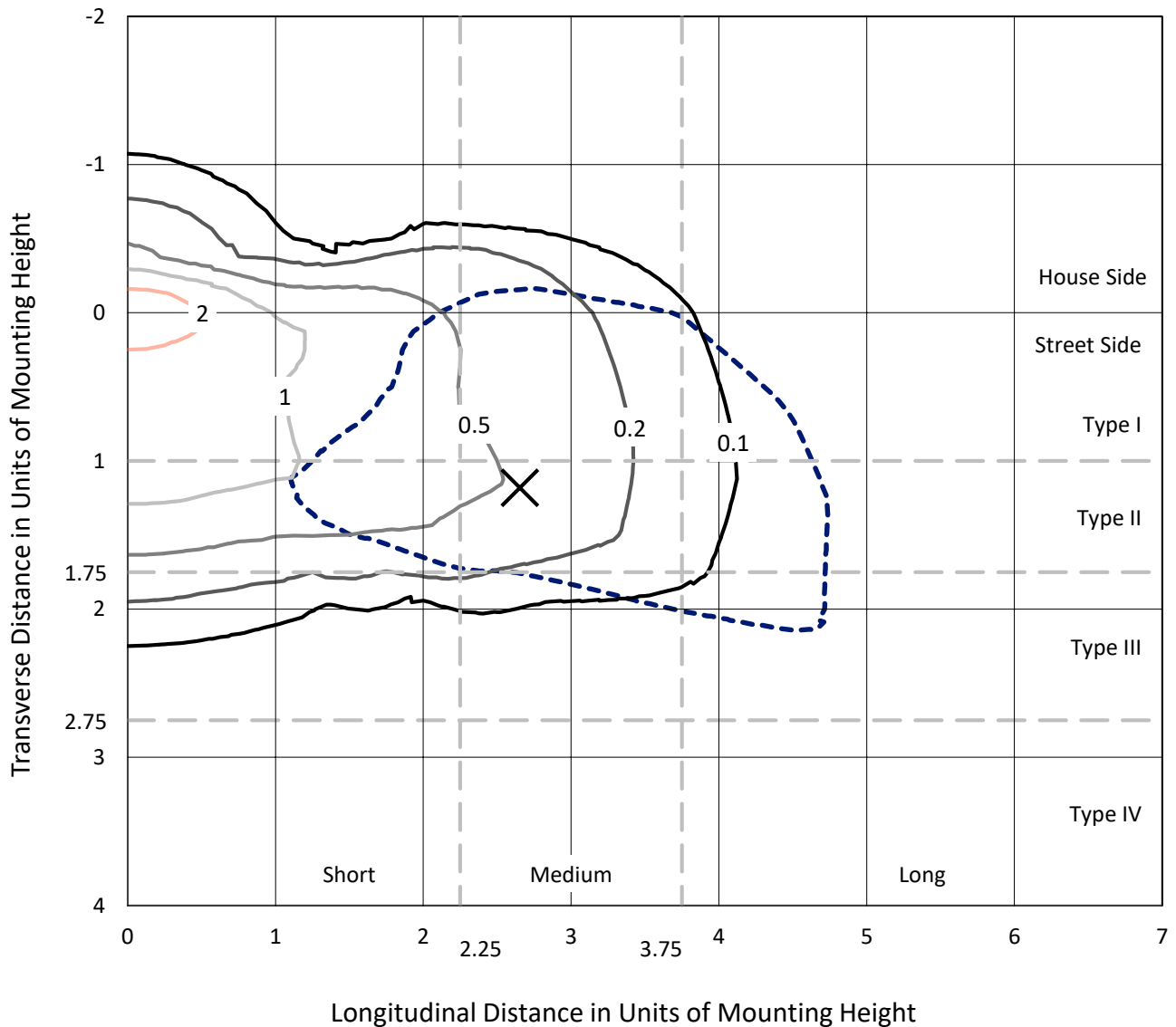
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319415
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Iso-Footcandle Lines of Horizontal Illumination

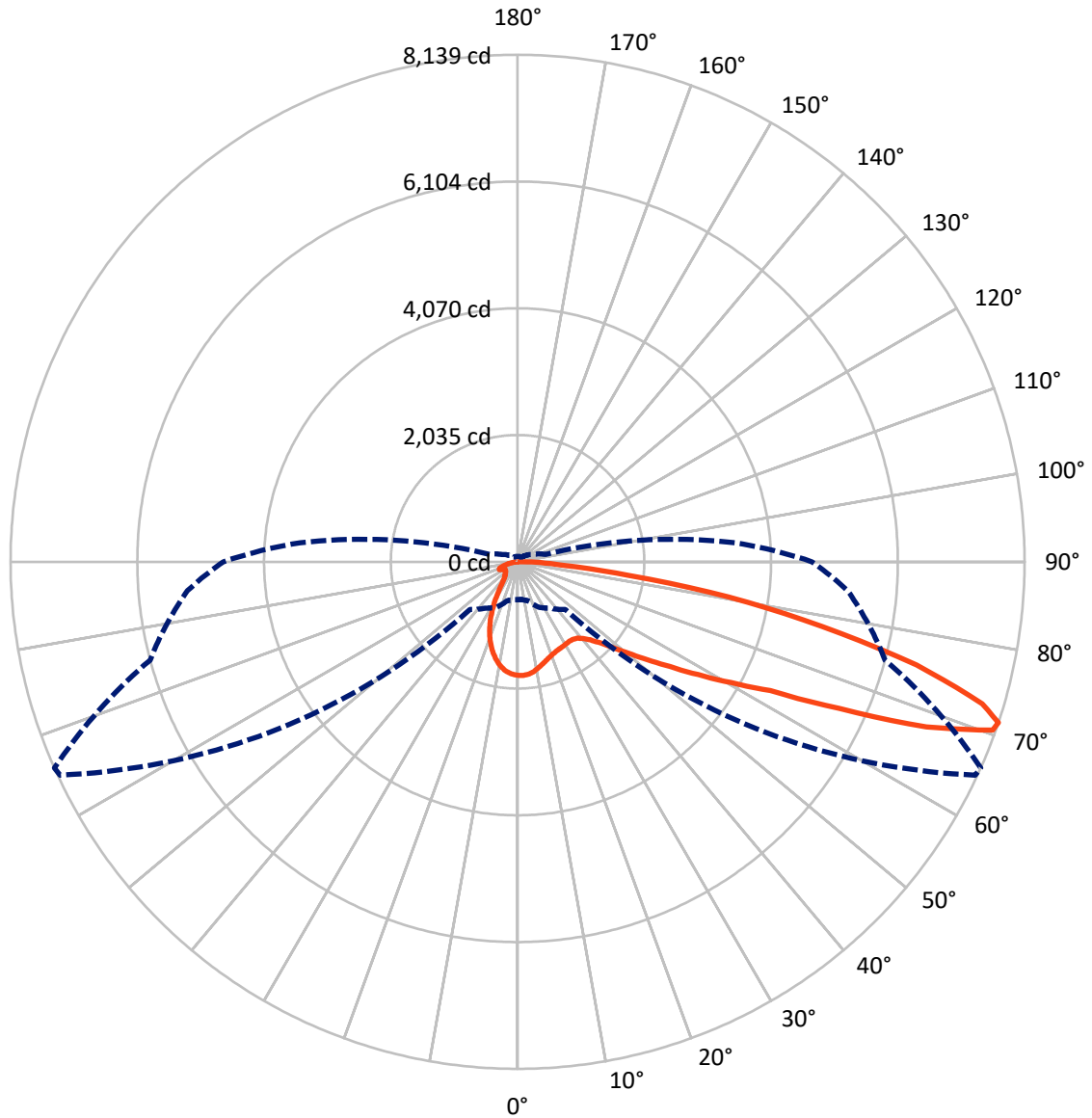
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P319415
CATALOG NUMBER: GAN-SA1D-750-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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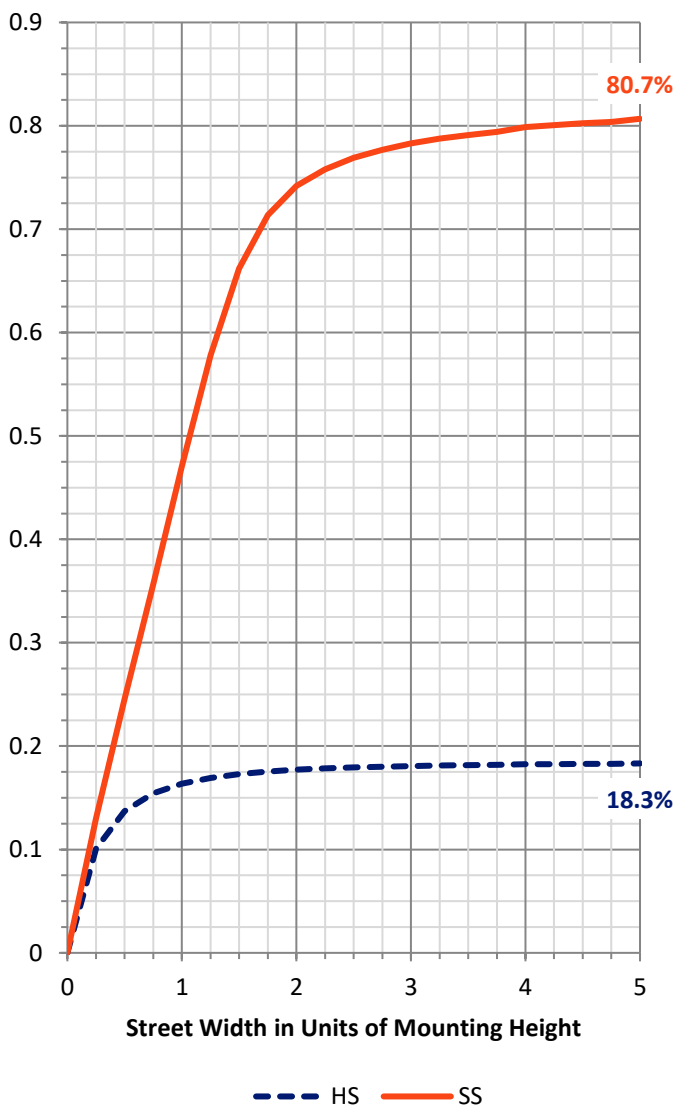
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1474.8	0.0	1474.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	6483.2	0.0	6483.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	7958.0	0.0	7958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	2.0
10°-20°	384.9	4.8
20°-30°	517.0	6.5
30°-40°	680.1	8.5
40°-50°	989.3	12.4
50°-60°	1545.5	19.4
60°-70°	1935.9	24.3
70°-80°	1476.7	18.6
80°-90°	268.2	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°	7958.0	100.0
0°-180°	7958.0	100.0

Coefficient of Utilization

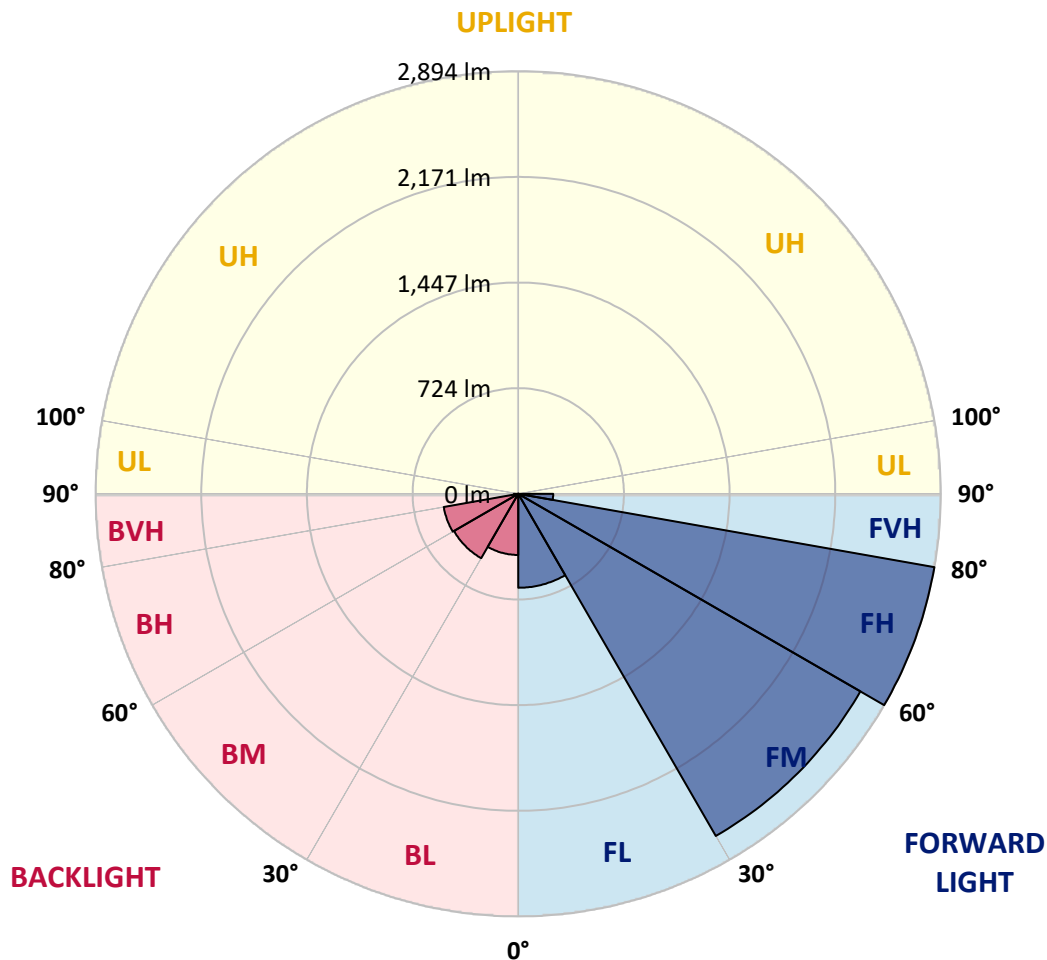


REPORT NUMBER: P319415
 CATALOG NUMBER: GAN-SA1D-750-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.5	8.1			
FM (30°-60°)	2706.1	34.0			
FH (60°-80°)	2894.4	36.4			G2/5000
FVH (80°-90°)	239.1	3.0			G3/500
BL (0°-30°)	418.8	5.3	B1/500		
BM (30°-60°)	508.8	6.4	B1/1000		
BH (60°-80°)	518.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	29.0	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°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1789.2	1786.5	1794.7	1803.2	1806.5	1812.0	1820.3	1824.9	1824.7	1825.5	1822.7
5°	1670.5	1667.0	1683.4	1696.9	1722.7	1751.9	1787.3	1812.6	1813.1	1827.4	1831.3
7.5°	1558.2	1555.7	1574.6	1596.3	1626.3	1670.8	1728.2	1782.6	1785.9	1824.7	1838.1
10°	1468.0	1467.5	1485.9	1509.5	1544.4	1594.1	1660.1	1739.8	1744.7	1811.5	1839.2
12.5°	1397.7	1398.8	1414.7	1441.7	1478.5	1530.4	1601.8	1691.7	1699.7	1790.6	1832.9
15°	1345.8	1350.2	1363.1	1390.3	1426.5	1479.3	1552.7	1647.2	1659.3	1767.2	1829.3
17.5°	1316.1	1321.0	1330.1	1352.6	1386.7	1437.5	1507.1	1610.6	1621.6	1749.4	1829.6
20°	1307.3	1311.4	1316.6	1330.4	1359.2	1405.4	1471.1	1577.7	1589.5	1735.1	1832.4
22.5°	1324.6	1327.6	1328.2	1327.1	1344.7	1382.3	1445.0	1553.5	1566.1	1725.8	1834.3
25°	1361.7	1365.8	1362.8	1352.6	1346.9	1369.9	1431.5	1537.5	1550.2	1718.9	1830.4
27.5°	1417.5	1418.0	1415.6	1402.4	1375.2	1371.3	1427.4	1528.2	1540.3	1710.9	1822.5
30°	1493.3	1496.9	1492.5	1474.6	1430.1	1393.3	1432.3	1519.1	1530.1	1700.8	1809.6
32.5°	1582.1	1590.9	1590.6	1571.9	1508.2	1442.5	1452.6	1513.6	1522.2	1690.0	1793.9
35°	1674.1	1686.2	1708.7	1700.8	1621.9	1520.2	1491.7	1522.4	1528.2	1688.7	1782.9
37.5°	1769.7	1781.8	1828.2	1849.7	1757.4	1631.5	1553.2	1553.5	1556.2	1705.4	1782.1
40°	1869.7	1882.6	1952.4	2008.2	1932.9	1772.5	1652.4	1618.3	1615.3	1746.6	1798.3
42.5°	2009.9	2021.4	2105.2	2176.4	2127.7	1953.0	1789.5	1718.3	1712.0	1827.4	1850.2
45°	2187.1	2197.0	2286.0	2362.1	2337.1	2159.1	1961.8	1856.0	1854.9	1962.1	1955.5
47.5°	2397.8	2405.5	2485.5	2559.1	2568.2	2396.2	2178.3	2068.4	2050.5	2146.7	2118.4
50°	2617.4	2625.9	2680.3	2759.4	2826.7	2713.5	2456.9	2328.6	2304.7	2390.4	2349.2
52.5°	2762.7	2774.0	2821.2	2921.5	3117.4	3061.4	2786.3	2644.0	2607.7	2685.8	2654.2
55°	2697.9	2723.1	2795.4	2956.1	3349.9	3592.7	3192.7	3011.9	2971.0	3035.8	3017.1
57.5°	2403.0	2437.7	2536.3	2784.4	3382.6	4060.9	3807.1	3445.2	3416.3	3397.7	3406.2
60°	1864.2	1897.5	2019.8	2343.1	3154.8	4402.7	4731.6	3979.3	3937.6	3760.9	3768.6
62.5°	1319.4	1302.6	1386.4	1623.0	2563.5	4442.8	5783.7	4693.7	4556.3	4144.5	4110.7
65°	1006.2	1002.3	1040.0	1115.2	1552.7	3962.8	6410.4	5894.4	5679.8	4595.6	4515.9
67.5°	826.7	819.9	857.0	966.6	999.8	2556.6	6424.1	7287.4	7076.7	5157.2	4984.7
70°	679.8	672.1	706.7	848.2	924.0	1296.6	5406.7	8103.2	8091.9	5868.3	5338.6
71°	609.4	603.9	645.4	802.6	907.8	1080.6	4668.1	8105.4	8139.2	6109.0	5317.7
72.5°	496.2	498.1	542.1	714.4	895.7	954.2	3430.9	7727.6	7799.0	6338.4	5127.8
75°	329.7	331.4	389.1	549.5	868.5	933.6	1885.7	6484.3	6615.6	6201.0	4679.1
77.5°	221.5	220.9	260.2	377.0	756.7	933.6	1105.6	4849.8	4994.0	4934.1	3607.3
80°	152.5	151.4	179.1	260.2	572.9	944.9	854.8	3398.8	3442.5	2664.6	1466.1
82.5°	93.4	94.2	117.0	183.8	389.9	850.4	807.0	1853.2	1805.7	747.3	366.3
85°	53.6	53.3	74.7	124.5	250.3	717.7	786.9	797.6	731.7	225.0	132.4
87.5°	19.2	20.6	40.1	69.0	143.4	499.8	667.7	414.9	373.9	101.7	59.9
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: P319415
 CATALOG NUMBER: GAN-SA1D-750-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1820.8	1822.5	1820.6	1809.6	1800.2	1785.1	1776.6	1764.8	1761.2	1759.6	1764.0
5°	1827.7	1828.2	1812.0	1783.2	1750.8	1712.6	1685.1	1651.3	1635.4	1628.5	1632.9
7.5°	1834.0	1831.5	1796.1	1740.9	1681.0	1614.5	1555.4	1501.3	1469.7	1456.8	1457.9
10°	1834.8	1824.4	1767.5	1682.1	1589.2	1491.7	1401.0	1317.5	1264.7	1230.4	1240.8
12.5°	1826.3	1808.7	1725.5	1606.0	1477.1	1344.1	1221.6	1096.3	1021.0	986.1	987.2
15°	1819.7	1787.9	1673.8	1516.4	1343.3	1167.2	999.8	852.6	772.3	736.6	719.9
17.5°	1814.2	1765.3	1613.9	1415.6	1185.3	961.9	760.8	629.5	585.5	575.1	570.7
20°	1806.5	1741.4	1547.2	1298.8	1005.3	732.2	555.6	490.7	491.0	503.1	504.7
22.5°	1795.8	1714.2	1476.0	1167.7	812.2	533.3	435.5	416.8	435.8	458.8	463.0
25°	1779.9	1682.1	1396.9	1022.9	619.3	409.9	372.0	371.2	394.3	418.5	422.0
27.5°	1757.4	1640.0	1309.0	867.4	456.4	348.4	333.3	339.1	356.1	373.7	375.0
30°	1727.1	1591.1	1212.0	703.4	357.7	310.2	308.6	313.8	324.2	336.6	337.7
32.5°	1693.9	1541.4	1108.4	544.6	306.4	289.6	291.2	293.7	298.7	303.6	304.7
35°	1663.7	1490.6	1002.3	413.8	281.9	276.1	275.0	274.5	275.0	273.4	273.7
37.5°	1644.2	1448.5	891.9	329.4	267.9	264.3	261.0	256.9	252.2	249.5	250.0
40°	1637.0	1417.2	780.0	284.6	256.3	253.9	247.6	238.8	233.3	231.6	231.6
42.5°	1656.2	1401.0	672.1	262.1	246.7	242.6	232.2	222.0	217.9	217.6	217.3
45°	1715.0	1407.6	569.3	249.8	237.9	230.0	216.2	207.7	205.0	205.5	205.2
47.5°	1820.6	1449.1	481.4	241.5	229.1	218.7	203.3	196.5	193.2	193.2	193.4
50°	2000.0	1546.1	411.3	234.6	221.7	208.3	194.0	185.5	181.1	180.8	180.8
52.5°	2261.3	1719.7	367.6	228.9	213.5	198.9	184.6	173.9	168.7	167.6	167.1
55°	2588.8	1968.6	355.5	225.0	202.5	188.8	173.4	162.7	156.9	154.4	154.1
57.5°	2955.0	2271.4	379.4	220.4	191.2	176.7	161.0	150.8	144.8	141.8	141.5
60°	3325.7	2602.0	477.0	213.8	181.9	163.5	148.4	139.0	133.0	129.7	129.1
62.5°	3696.9	2950.4	676.2	213.2	175.3	150.8	135.5	127.5	121.7	118.1	117.3
65°	4115.6	3331.7	902.6	227.8	173.1	139.3	122.3	115.9	111.0	107.7	107.4
67.5°	4596.4	3762.3	880.9	257.7	180.5	128.9	109.9	105.0	101.4	98.6	98.4
70°	4822.0	3695.0	547.6	278.9	191.0	118.7	98.1	94.5	91.8	89.8	89.0
71°	4727.5	3508.4	459.1	276.4	189.9	114.3	93.4	90.7	87.9	86.3	85.4
72.5°	4469.8	3199.6	383.0	257.2	177.5	106.3	87.4	84.6	82.2	80.2	79.7
75°	4010.9	2857.5	306.6	205.5	141.5	89.8	76.7	73.6	71.7	70.6	69.5
77.5°	2948.4	2039.3	237.1	162.4	104.1	73.4	65.4	63.2	61.3	59.6	58.8
80°	1129.5	789.9	159.6	121.2	76.4	58.0	52.8	51.7	49.7	48.6	48.6
82.5°	304.2	236.0	85.2	73.4	51.1	42.3	40.4	39.8	38.2	36.0	36.3
85°	123.1	104.1	47.8	40.4	31.3	25.0	27.2	27.5	25.6	22.8	23.1
87.5°	54.1	44.2	26.7	17.9	13.7	9.6	12.4	12.4	11.3	9.3	8.5
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)