

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: P319405

Luminaire Tested: **GAN-SA1C-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319405
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-SA1C-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1050mA 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: 7254 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

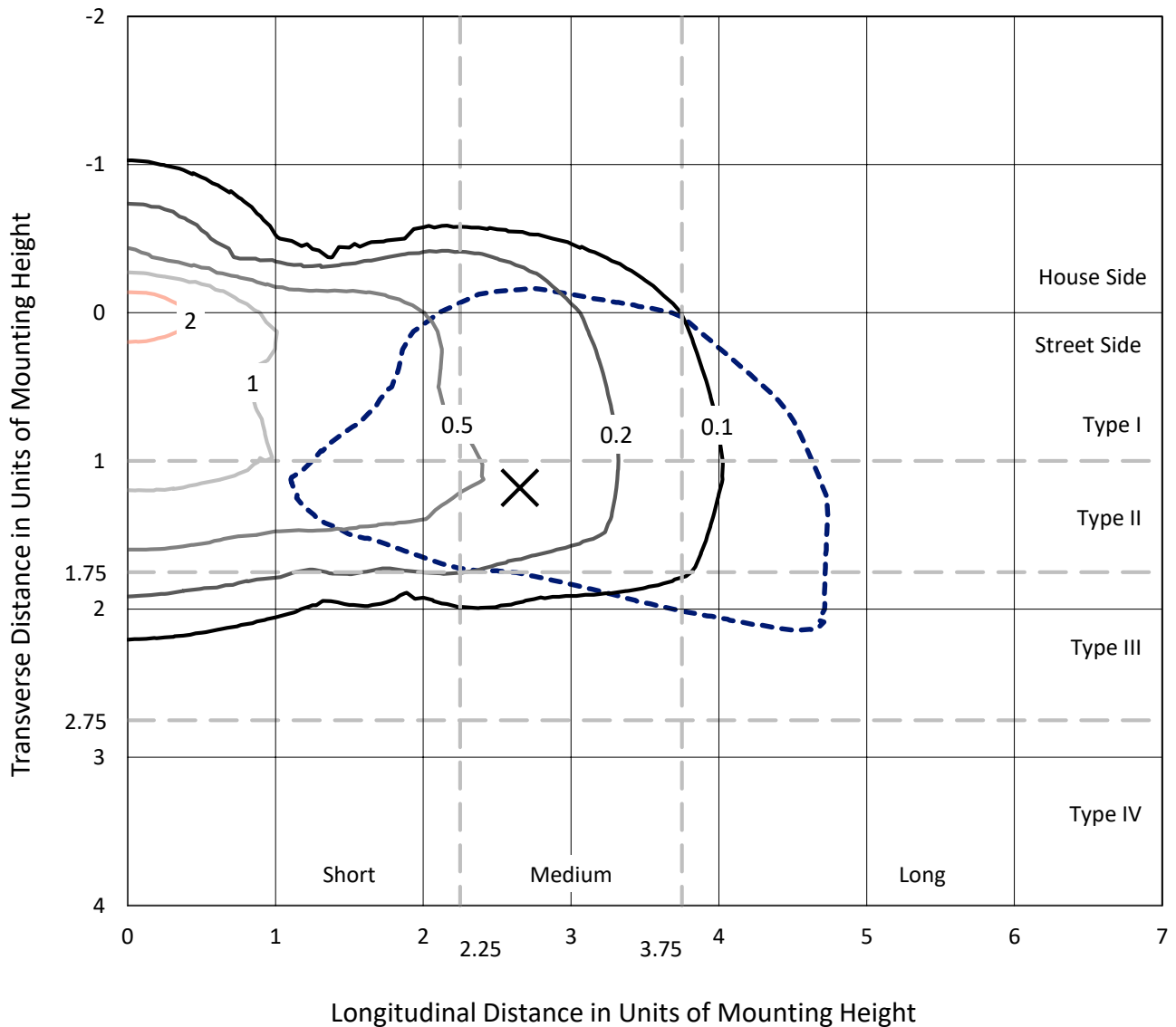
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

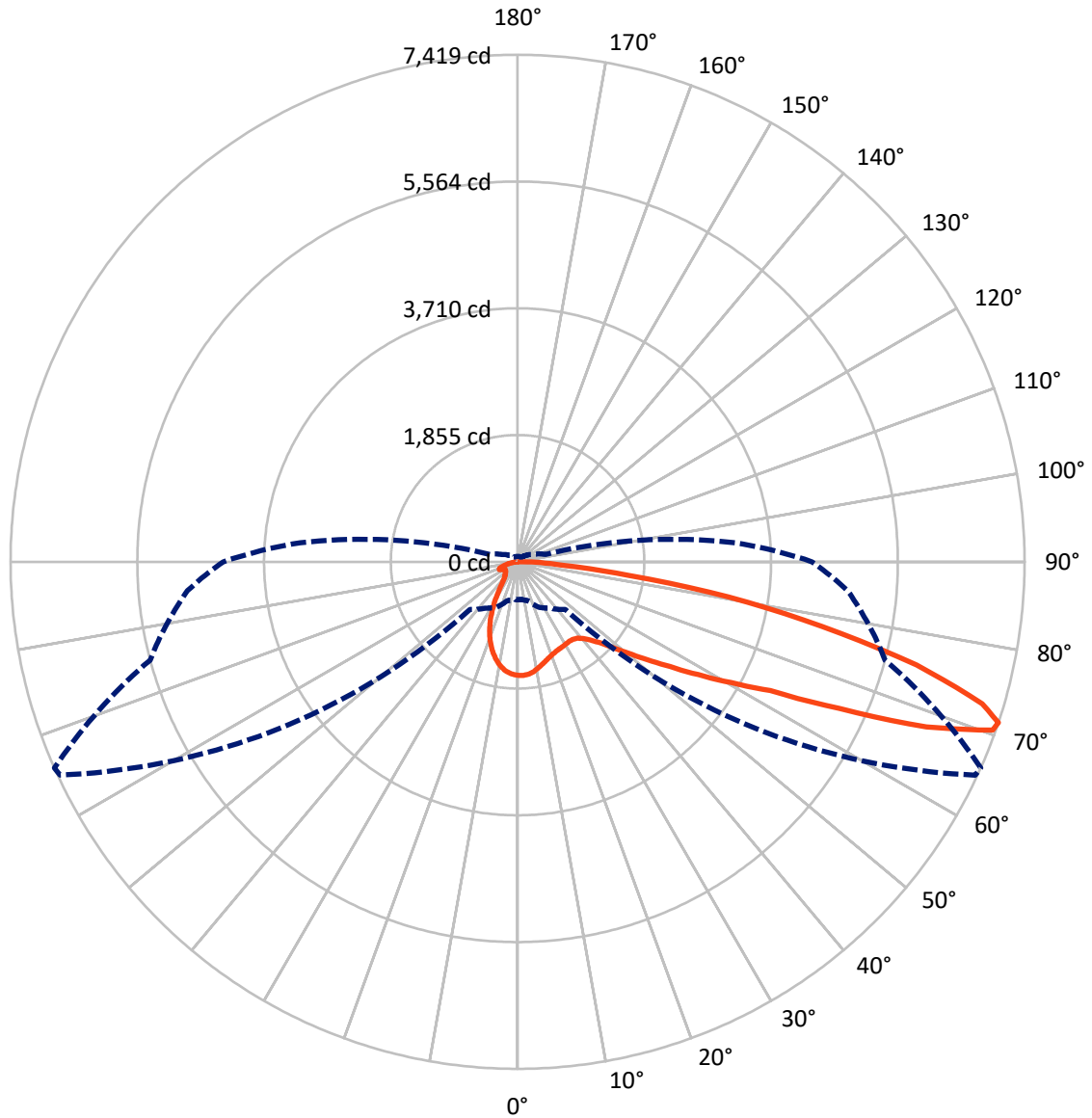
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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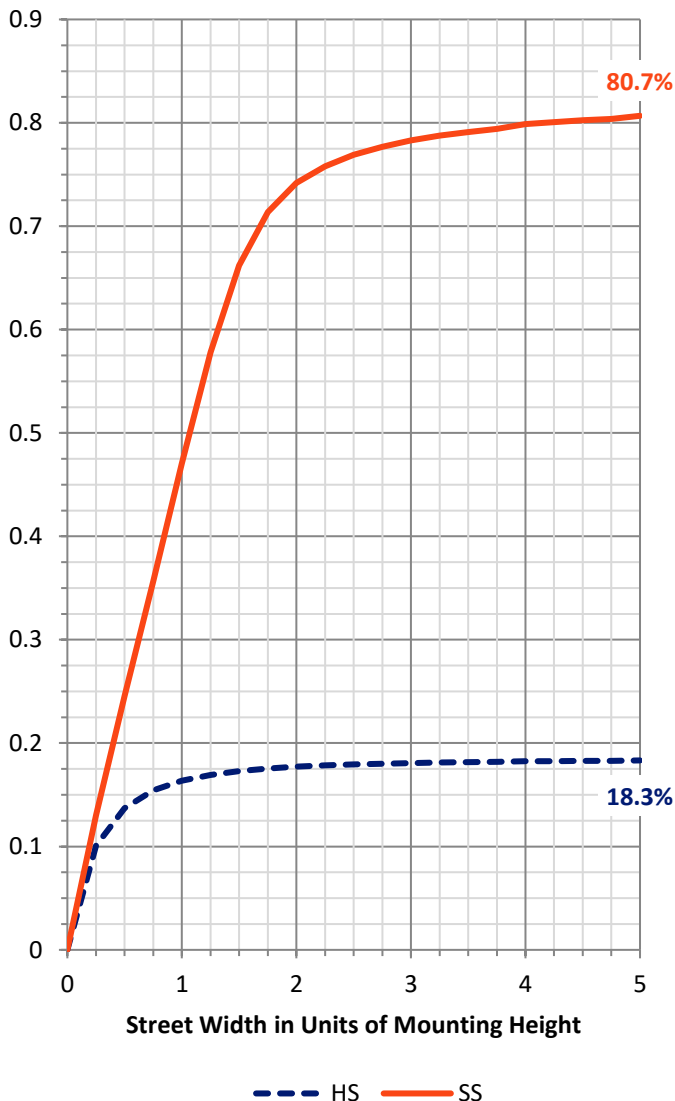
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1344.4	0.0	1344.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	5909.6	0.0	5909.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	7254.0	0.0	7254.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	2.0
10°-20°	350.8	4.8
20°-30°	471.3	6.5
30°-40°	619.9	8.5
40°-50°	901.8	12.4
50°-60°	1408.7	19.4
60°-70°	1764.7	24.3
70°-80°	1346.1	18.6
80°-90°	244.4	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°	7254.0	100.0
0°-180°	7254.0	100.0

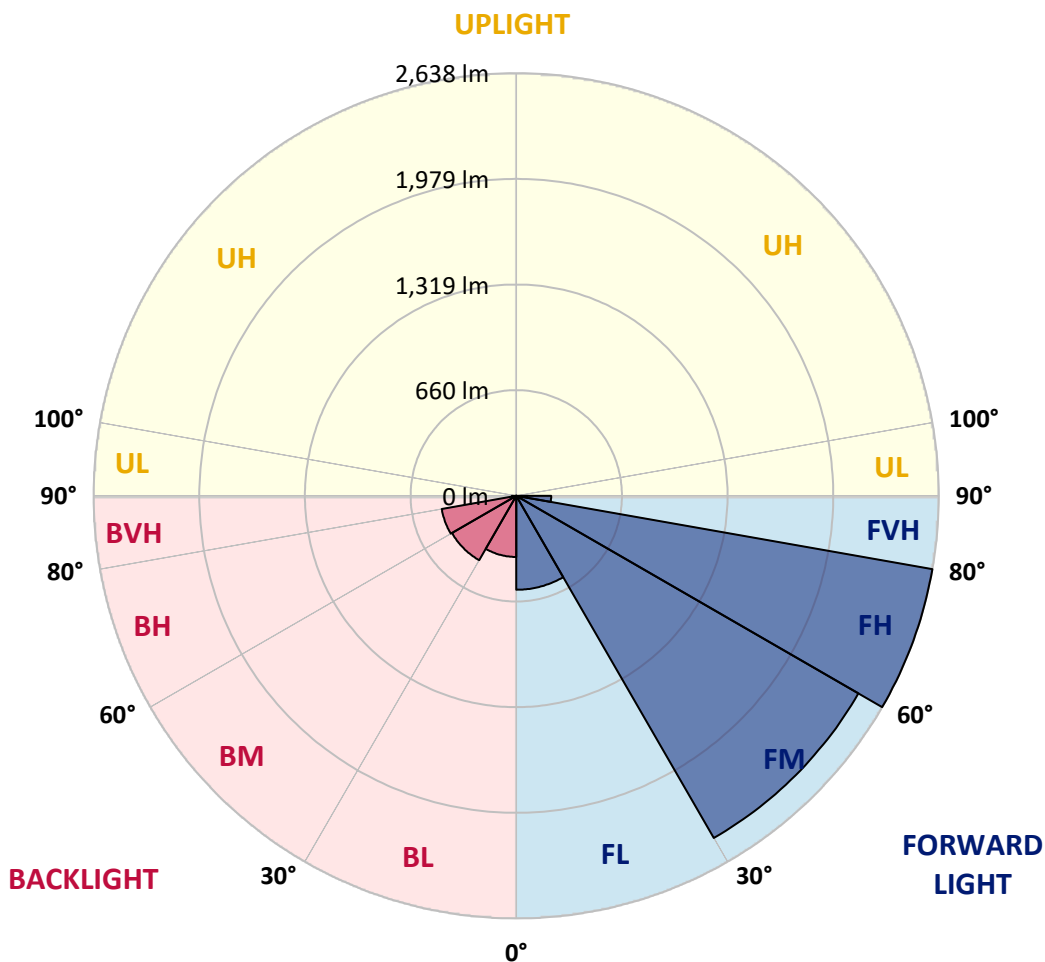


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.6	8.1			
FM (30°-60°)	2466.7	34.0			
FH (60°-80°)	2638.4	36.4			G2/5000
FVH (80°-90°)	218.0	3.0			G2/225
BL (0°-30°)	381.8	5.3	B1/500		
BM (30°-60°)	463.8	6.4	B1/1000		
BH (60°-80°)	472.4	6.5	B1/500		G1/500
BVH (80°-90°)	26.5	0.4			G1/100
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°	65°	66°	75°	85°
0°	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8
2.5°	1630.9	1628.4	1636.0	1643.7	1646.7	1651.7	1659.2	1663.5	1663.3	1664.0	1661.5
5°	1522.7	1519.5	1534.5	1546.8	1570.3	1596.9	1629.2	1652.2	1652.7	1665.8	1669.3
7.5°	1420.3	1418.1	1435.3	1455.1	1482.4	1523.0	1575.3	1624.9	1627.9	1663.3	1675.5
10°	1338.2	1337.7	1354.4	1376.0	1407.8	1453.1	1513.2	1585.9	1590.4	1651.2	1676.5
12.5°	1274.1	1275.1	1289.6	1314.1	1347.7	1395.0	1460.1	1542.0	1549.3	1632.2	1670.8
15°	1226.7	1230.7	1242.5	1267.3	1300.3	1348.4	1415.3	1501.5	1512.5	1610.9	1667.5
17.5°	1199.7	1204.2	1212.4	1233.0	1264.0	1310.4	1373.7	1468.2	1478.2	1594.6	1667.8
20°	1191.7	1195.4	1200.2	1212.7	1239.0	1281.1	1340.9	1438.1	1448.9	1581.6	1670.3
22.5°	1207.4	1210.2	1210.7	1209.7	1225.7	1260.0	1317.1	1416.1	1427.6	1573.1	1672.0
25°	1241.2	1245.0	1242.2	1233.0	1227.7	1248.8	1304.9	1401.5	1413.1	1566.8	1668.5
27.5°	1292.1	1292.6	1290.3	1278.3	1253.5	1250.0	1301.1	1393.0	1404.0	1559.6	1661.3
30°	1361.2	1364.5	1360.5	1344.2	1303.6	1270.0	1305.6	1384.8	1394.8	1550.3	1649.5
32.5°	1442.1	1450.1	1449.9	1432.8	1374.7	1314.9	1324.1	1379.7	1387.5	1540.5	1635.2
35°	1526.0	1537.0	1557.6	1550.3	1478.4	1385.8	1359.7	1387.8	1393.0	1539.3	1625.2
37.5°	1613.2	1624.2	1666.5	1686.0	1601.9	1487.2	1415.8	1416.1	1418.6	1554.6	1624.4
40°	1704.3	1716.1	1779.7	1830.6	1761.9	1615.7	1506.2	1475.2	1472.4	1592.1	1639.2
42.5°	1832.1	1842.6	1919.0	1983.8	1939.5	1780.2	1631.2	1566.3	1560.6	1665.8	1686.5
45°	1993.6	2002.6	2083.8	2153.1	2130.3	1968.1	1788.2	1691.8	1690.8	1788.5	1782.5
47.5°	2185.7	2192.7	2265.6	2332.7	2341.0	2184.2	1985.6	1885.4	1869.1	1956.8	1931.0
50°	2385.8	2393.6	2443.2	2515.3	2576.7	2473.5	2239.5	2122.6	2100.8	2178.9	2141.4
52.5°	2518.3	2528.6	2571.6	2663.1	2841.6	2790.5	2539.8	2410.1	2377.0	2448.2	2419.4
55°	2459.2	2482.2	2548.1	2694.6	3053.5	3274.9	2910.3	2745.5	2708.1	2767.2	2750.2
57.5°	2190.5	2222.0	2311.9	2538.1	3083.3	3701.7	3470.3	3140.4	3114.1	3097.1	3104.9
60°	1699.3	1729.6	1841.1	2135.9	2875.7	4013.2	4313.0	3627.3	3589.2	3428.2	3435.2
62.5°	1202.7	1187.4	1263.8	1479.4	2336.7	4049.8	5272.0	4278.5	4153.3	3777.8	3747.0
65°	917.2	913.6	948.0	1016.6	1415.3	3612.3	5843.3	5373.0	5177.3	4189.1	4116.4
67.5°	753.6	747.3	781.2	881.1	911.4	2330.5	5855.8	6642.7	6450.6	4701.0	4543.7
70°	619.6	612.6	644.2	773.1	842.3	1181.9	4928.4	7386.3	7376.1	5349.2	4866.3
71°	555.5	550.5	588.3	731.6	827.5	985.0	4255.2	7388.3	7419.1	5568.6	4847.3
72.5°	452.3	454.1	494.1	651.2	816.5	869.8	3127.4	7044.0	7109.1	5777.7	4674.2
75°	300.5	302.0	354.6	500.9	791.7	851.0	1718.9	5910.7	6030.4	5652.5	4265.2
77.5°	201.9	201.4	237.2	343.6	689.7	851.0	1007.8	4420.7	4552.2	4497.6	3288.2
80°	139.0	138.0	163.3	237.2	522.2	861.3	779.2	3098.1	3137.9	2428.9	1336.4
82.5°	85.2	85.9	106.7	167.6	355.4	775.1	735.6	1689.3	1646.0	681.2	333.9
85°	48.8	48.6	68.1	113.5	228.2	654.2	717.3	727.1	667.0	205.1	120.7
87.5°	17.5	18.8	36.6	62.9	130.7	455.6	608.6	378.2	340.9	92.7	54.6
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°	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8	1661.8
2.5°	1659.7	1661.3	1659.5	1649.5	1641.0	1627.2	1619.4	1608.7	1605.4	1603.9	1607.9
5°	1666.0	1666.5	1651.7	1625.4	1595.9	1561.1	1536.0	1505.2	1490.7	1484.4	1488.4
7.5°	1671.8	1669.5	1637.2	1586.9	1532.3	1471.7	1417.8	1368.5	1339.7	1327.9	1328.9
10°	1672.5	1663.0	1611.2	1533.3	1448.6	1359.7	1277.1	1200.9	1152.8	1121.5	1131.0
12.5°	1664.8	1648.7	1572.8	1463.9	1346.4	1225.2	1113.5	999.3	930.7	898.9	899.9
15°	1658.7	1629.7	1525.8	1382.2	1224.5	1063.9	911.4	777.2	704.0	671.5	656.2
17.5°	1653.7	1609.2	1471.2	1290.3	1080.5	876.8	693.5	573.8	533.7	524.2	520.2
20°	1646.7	1587.4	1410.3	1183.9	916.4	667.5	506.4	447.3	447.6	458.6	460.1
22.5°	1637.0	1562.6	1345.4	1064.4	740.3	486.1	397.0	379.9	397.2	418.3	422.0
25°	1622.4	1533.3	1273.3	932.4	564.5	373.7	339.1	338.4	359.4	381.4	384.7
27.5°	1601.9	1494.9	1193.2	790.7	416.0	317.6	303.8	309.1	324.6	340.6	341.9
30°	1574.3	1450.4	1104.7	641.2	326.1	282.8	281.3	286.0	295.5	306.8	307.8
32.5°	1544.0	1405.0	1010.3	496.4	279.3	264.0	265.5	267.7	272.2	276.7	277.8
35°	1516.5	1358.7	913.6	377.2	257.0	251.7	250.7	250.2	250.7	249.2	249.5
37.5°	1498.7	1320.4	813.0	300.3	244.2	240.9	237.9	234.2	229.9	227.4	227.9
40°	1492.2	1291.8	711.0	259.5	233.7	231.4	225.7	217.6	212.6	211.1	211.1
42.5°	1509.7	1277.1	612.6	238.9	224.9	221.1	211.6	202.4	198.6	198.4	198.1
45°	1563.3	1283.1	518.9	227.7	216.9	209.6	197.1	189.3	186.8	187.3	187.1
47.5°	1659.5	1320.9	438.8	220.1	208.9	199.4	185.3	179.1	176.1	176.1	176.3
50°	1823.0	1409.3	374.9	213.9	202.1	189.8	176.8	169.1	165.0	164.8	164.8
52.5°	2061.2	1567.6	335.1	208.6	194.6	181.3	168.3	158.5	153.8	152.8	152.3
55°	2359.8	1794.5	324.1	205.1	184.6	172.1	158.0	148.3	143.0	140.8	140.5
57.5°	2693.6	2070.5	345.9	200.9	174.3	161.0	146.8	137.5	132.0	129.2	129.0
60°	3031.5	2371.8	434.8	194.9	165.8	149.0	135.2	126.7	121.2	118.2	117.7
62.5°	3369.8	2689.4	616.4	194.4	159.8	137.5	123.5	116.2	111.0	107.7	106.9
65°	3751.5	3037.0	822.7	207.6	157.8	127.0	111.5	105.7	101.2	98.2	97.9
67.5°	4189.8	3429.4	803.0	234.9	164.5	117.5	100.2	95.7	92.4	89.9	89.7
70°	4395.4	3368.1	499.2	254.2	174.1	108.2	89.4	86.2	83.7	81.9	81.1
71°	4309.3	3198.0	418.5	252.0	173.1	104.2	85.2	82.6	80.1	78.6	77.9
72.5°	4074.4	2916.5	349.1	234.4	161.8	96.9	79.6	77.1	74.9	73.1	72.6
75°	3656.1	2604.7	279.5	187.3	129.0	81.9	69.9	67.1	65.4	64.4	63.4
77.5°	2687.6	1858.9	216.1	148.0	94.9	66.9	59.6	57.6	55.9	54.3	53.6
80°	1029.6	720.1	145.5	110.4	69.6	52.8	48.1	47.1	45.3	44.3	44.3
82.5°	277.3	215.1	77.6	66.9	46.6	38.6	36.8	36.3	34.8	32.8	33.1
85°	112.2	94.9	43.6	36.8	28.6	22.8	24.8	25.0	23.3	20.8	21.0
87.5°	49.3	40.3	24.3	16.3	12.5	8.8	11.3	11.3	10.3	8.5	7.8
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)