

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: P382803

Luminaire Tested: **GAN-SA1D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7567.9 lumens
Efficiency: N/A
Efficacy: 113.0 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

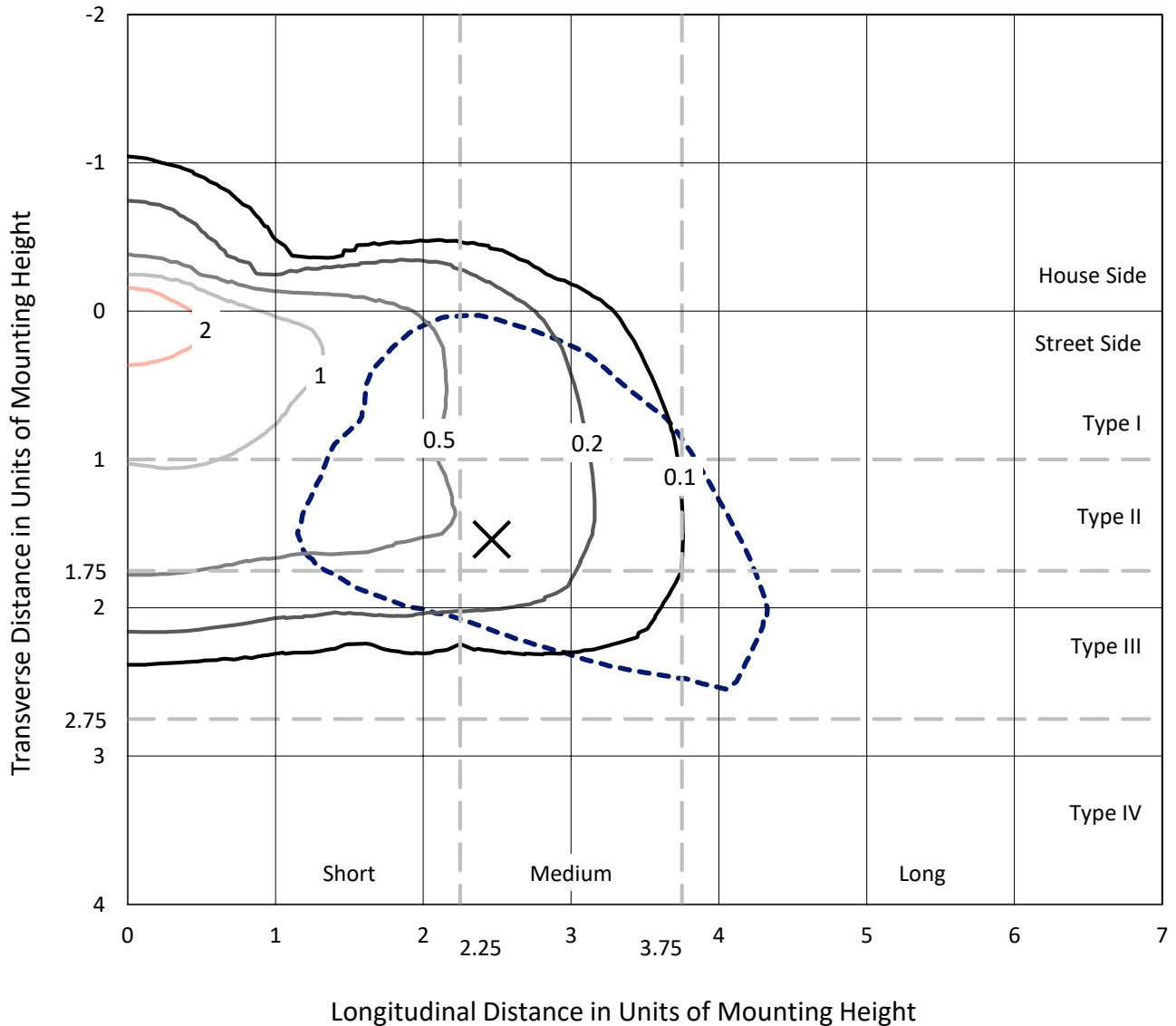
Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

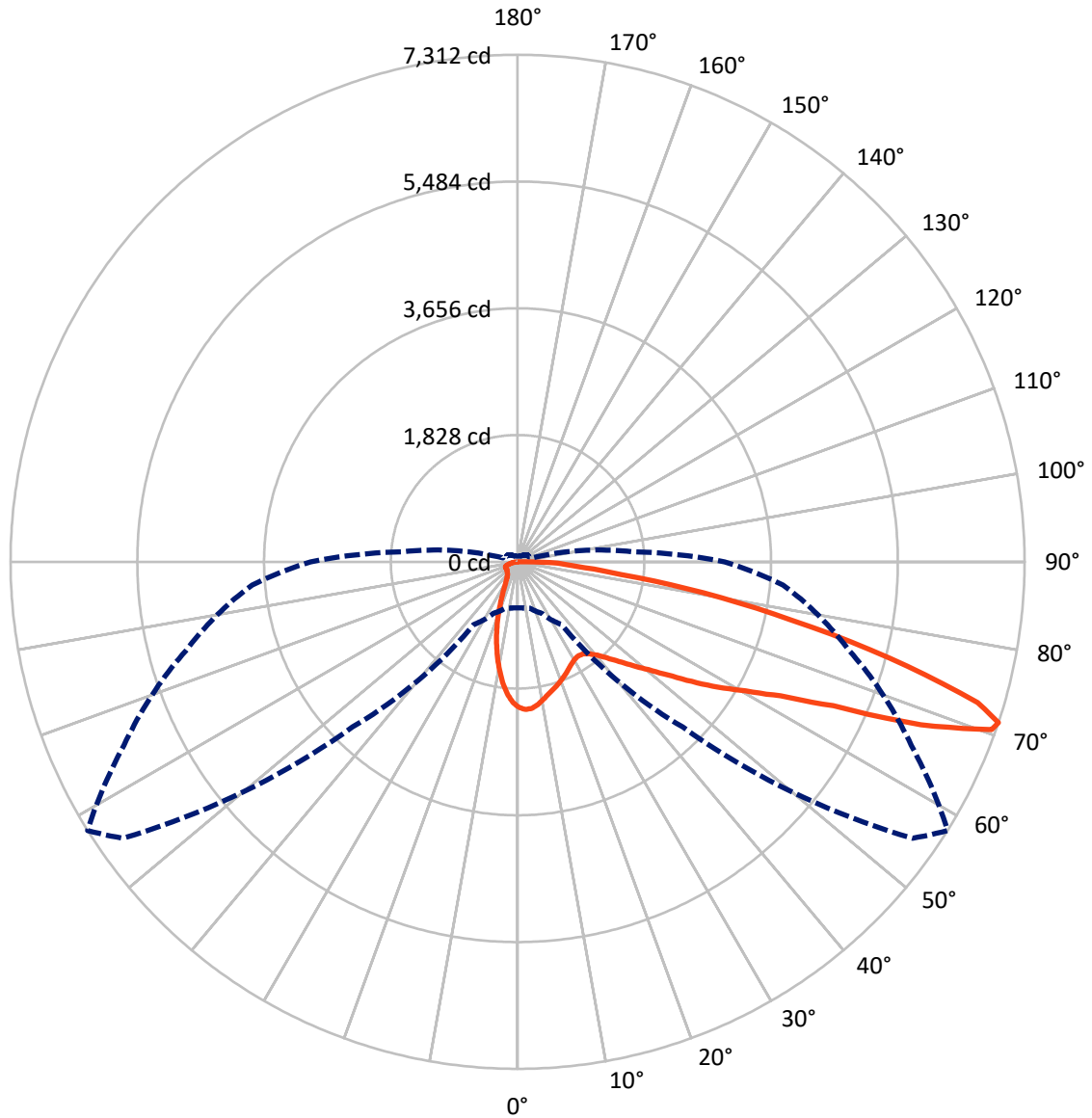
✕ Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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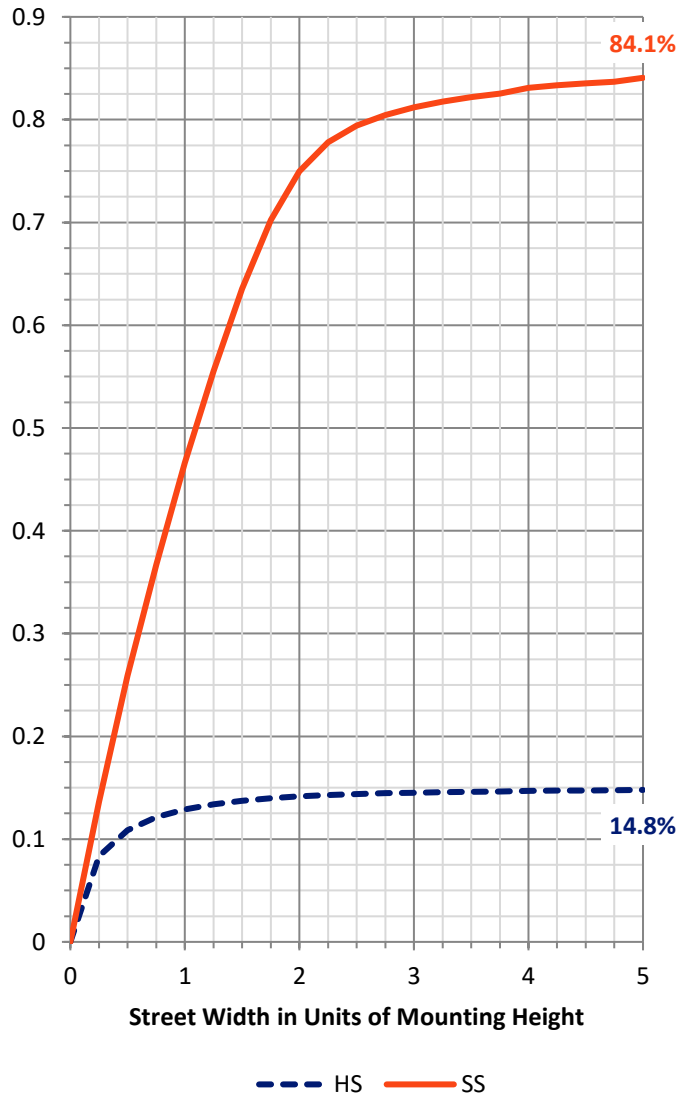
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1131.5	0.0	1131.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6436.4	0.0	6436.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	7567.9	0.0	7567.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	2.4
10°-20°	402.2	5.3
20°-30°	511.2	6.8
30°-40°	651.2	8.6
40°-50°	923.4	12.2
50°-60°	1429.0	18.9
60°-70°	1945.4	25.7
70°-80°	1297.8	17.1
80°-90°	226.9	3.0
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°	7567.9	100.0
0°-180°	7567.9	100.0

Coefficient of Utilization

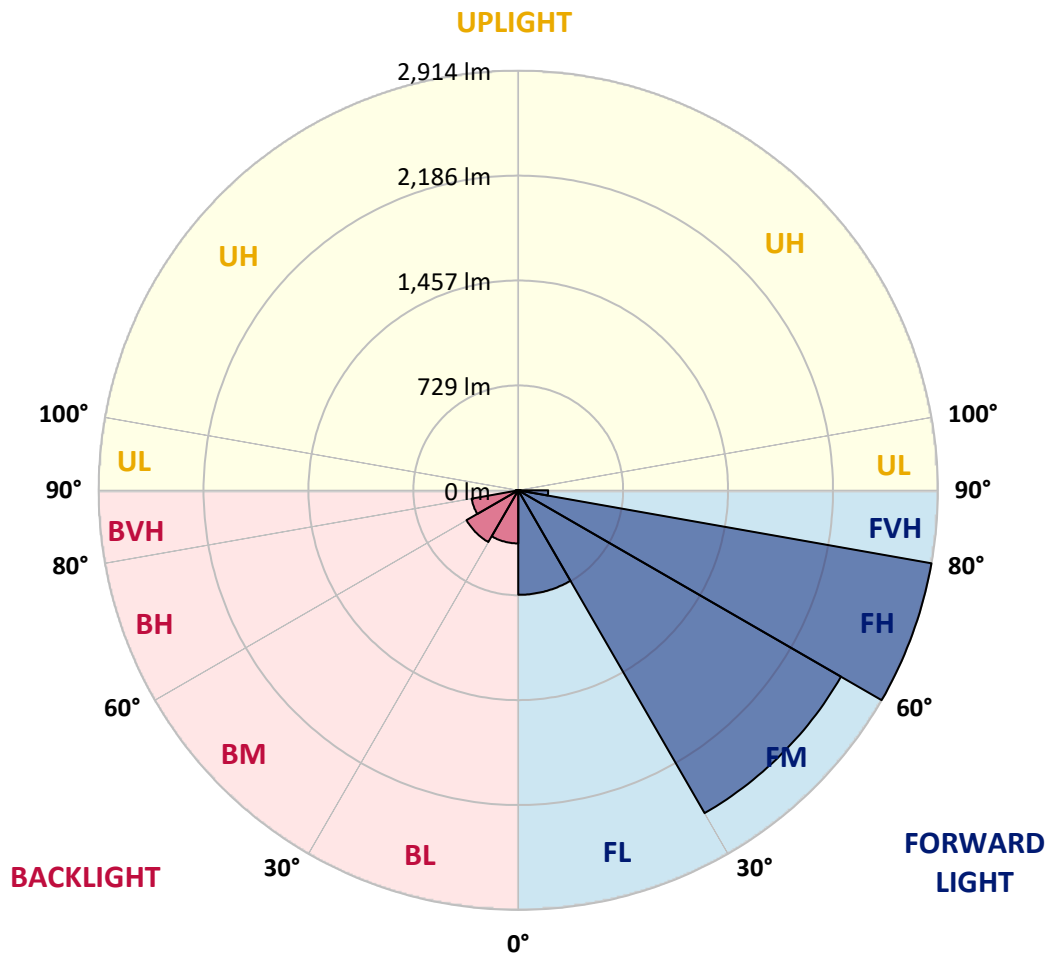


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.5	9.6			
FM (30°-60°)	2588.6	34.2			
FH (60°-80°)	2914.3	38.5			G2/5000
FVH (80°-90°)	208.0	2.7			G2/225
BL (0°-30°)	368.8	4.9	B1/500		
BM (30°-60°)	414.9	5.5	B1/1000		
BH (60°-80°)	328.9	4.3	B1/500		G1/500
BVH (80°-90°)	18.8	0.2			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°	58°	65°	75°	85°
0°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2152.4	2149.5	2150.6	2148.5	2143.5	2138.5	2131.1	2132.4	2122.2	2106.8	2087.9
5°	2111.8	2110.8	2118.7	2123.2	2126.9	2123.9	2121.9	2124.5	2109.5	2088.3	2055.5
7.5°	2026.7	2015.1	2025.1	2040.1	2054.3	2065.1	2079.4	2081.3	2071.8	2049.6	2006.4
10°	1905.7	1894.6	1909.4	1932.9	1961.3	1987.2	2015.9	2021.2	2023.0	2002.9	1950.5
12.5°	1780.2	1771.8	1786.5	1819.5	1866.6	1906.5	1952.3	1960.3	1976.6	1963.1	1898.9
15°	1667.9	1664.8	1682.7	1715.1	1769.4	1830.3	1896.4	1911.0	1938.6	1934.2	1858.5
17.5°	1570.9	1570.1	1583.8	1617.8	1677.9	1754.9	1840.8	1865.3	1906.5	1911.7	1825.3
20°	1498.7	1497.1	1506.6	1531.7	1593.6	1680.8	1780.7	1814.5	1873.8	1892.3	1791.0
22.5°	1459.9	1459.6	1459.9	1471.8	1522.4	1603.6	1722.2	1763.3	1841.9	1876.7	1753.1
25°	1453.3	1452.6	1446.7	1445.4	1474.2	1539.0	1664.2	1709.6	1811.6	1865.9	1716.9
27.5°	1470.4	1471.5	1463.8	1451.4	1457.3	1496.5	1613.9	1662.3	1787.4	1863.7	1691.9
30°	1506.0	1505.5	1499.0	1486.0	1474.6	1480.7	1578.0	1626.5	1771.0	1873.0	1674.7
32.5°	1545.3	1548.2	1546.9	1539.8	1522.9	1498.7	1567.2	1614.7	1766.2	1895.1	1667.4
35°	1592.5	1595.6	1605.1	1610.7	1590.9	1552.0	1590.4	1631.5	1779.9	1936.8	1679.2
37.5°	1637.3	1645.5	1672.1	1695.6	1678.7	1635.2	1652.1	1681.4	1822.4	2002.5	1711.2
40°	1689.0	1696.1	1739.6	1789.4	1786.8	1741.7	1751.5	1771.0	1897.3	2096.5	1768.9
42.5°	1739.9	1754.1	1817.1	1887.8	1908.1	1868.2	1883.8	1894.1	2002.7	2221.3	1869.6
45°	1807.7	1822.9	1910.4	1995.6	2043.1	2020.6	2045.4	2049.4	2135.3	2391.0	2015.9
47.5°	1910.1	1927.6	2029.6	2119.0	2191.5	2193.8	2234.7	2233.1	2300.8	2585.3	2200.1
50°	2069.9	2095.0	2178.5	2262.1	2350.1	2399.2	2453.8	2446.2	2499.3	2792.2	2412.3
52.5°	2279.2	2290.9	2352.8	2414.5	2523.8	2633.8	2712.1	2705.2	2724.5	3005.0	2653.3
55°	2496.2	2504.9	2530.5	2564.2	2711.3	2890.6	3056.1	3045.3	2996.5	3225.9	2891.3
57.5°	2691.2	2708.9	2726.6	2740.5	2900.1	3159.0	3408.1	3408.8	3291.8	3464.2	3137.3
60°	2721.6	2737.2	2853.9	2964.1	3223.0	3517.0	3784.8	3776.9	3597.4	3722.8	3411.5
62.5°	2405.8	2440.8	2635.9	2929.1	3534.0	4171.7	4265.4	4255.6	3962.7	4041.5	3730.8
65°	1724.0	1763.9	1999.3	2439.8	3383.3	4893.2	5132.6	5001.4	4460.9	4433.5	4104.5
67.5°	994.6	1004.1	1106.1	1459.9	2576.1	4931.0	6455.7	6272.0	5234.6	4878.2	4287.4
70°	735.5	735.3	759.5	898.4	1394.0	4024.4	7085.0	7249.8	6049.2	5024.6	4028.9
71°	665.1	665.9	693.1	817.7	1104.1	3368.5	6951.3	7312.0	6263.8	4952.3	3841.7
72.5°	568.9	571.5	609.2	733.4	928.8	2323.0	6375.6	6938.6	6365.5	4774.1	3548.8
75°	431.6	437.6	489.8	618.2	848.8	1178.1	4679.2	5540.8	5654.9	4212.6	2636.9
77.5°	307.9	314.8	373.8	519.9	806.9	887.9	3133.6	4041.5	4161.5	2699.7	1189.4
80°	194.5	202.7	247.2	413.6	758.2	843.1	1969.2	2716.6	2269.2	863.9	302.7
82.5°	114.1	120.4	153.4	270.2	619.2	811.9	1158.6	1505.8	883.1	261.0	137.6
85°	66.1	69.0	95.7	172.1	449.8	766.3	851.2	841.7	383.3	127.6	65.1
87.5°	30.8	34.3	56.6	89.9	249.7	555.5	672.8	581.3	238.3	59.8	30.6
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°	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8	2096.8
2.5°	2078.7	2074.2	2055.5	2038.8	2021.5	1998.7	1973.7	1970.5	1955.2	1958.1	1952.9
5°	2037.5	2026.2	1981.1	1940.2	1892.0	1848.7	1801.8	1780.2	1749.1	1747.0	1739.1
7.5°	1978.7	1957.6	1887.8	1810.3	1732.8	1658.9	1586.0	1538.0	1488.9	1468.1	1466.3
10°	1912.6	1876.7	1773.9	1659.2	1547.4	1439.6	1335.2	1258.0	1188.4	1155.4	1154.1
12.5°	1849.8	1796.9	1655.8	1499.7	1346.8	1207.1	1063.9	962.5	875.2	845.9	833.5
15°	1796.6	1722.0	1540.9	1341.2	1155.7	961.6	798.8	692.0	611.4	583.4	578.1
17.5°	1744.9	1648.9	1423.0	1181.3	956.9	743.7	580.4	501.2	458.1	446.9	446.6
20°	1693.5	1573.8	1299.9	1017.5	764.7	556.2	446.3	410.7	396.2	394.9	392.8
22.5°	1635.2	1494.2	1170.5	853.3	596.8	437.4	379.3	365.1	363.3	368.1	368.1
25°	1580.6	1415.1	1039.1	692.5	464.2	364.9	338.7	335.8	340.9	349.3	350.1
27.5°	1529.8	1338.9	911.1	549.6	372.0	321.4	310.6	313.9	323.0	332.7	332.9
30°	1487.9	1266.9	786.6	433.2	314.2	289.0	287.1	293.9	303.7	311.3	313.2
32.5°	1455.4	1205.5	666.4	348.2	276.6	264.7	266.2	272.0	278.2	282.4	285.2
35°	1440.4	1152.8	555.5	293.6	252.5	245.9	248.1	251.2	253.8	257.0	259.4
37.5°	1443.1	1111.9	456.4	259.6	236.4	233.1	233.1	233.1	233.1	234.7	234.8
40°	1467.6	1088.5	375.7	238.0	225.6	222.0	219.1	216.4	214.3	215.4	214.8
42.5°	1530.3	1086.4	316.6	224.3	217.0	210.9	205.1	201.4	198.8	199.8	200.4
45°	1636.8	1112.7	276.8	214.6	208.8	199.5	192.2	188.3	186.4	189.8	190.3
47.5°	1774.7	1170.2	252.5	207.5	201.1	189.0	181.1	177.5	177.9	183.0	184.3
50°	1952.3	1263.6	241.0	203.0	195.9	180.1	171.9	168.7	170.3	177.5	179.0
52.5°	2147.4	1398.0	242.3	201.7	192.5	173.5	164.8	161.1	163.7	170.3	171.6
55°	2372.6	1559.6	264.2	203.5	187.4	169.3	158.9	152.7	154.7	160.8	161.9
57.5°	2622.8	1744.6	308.2	203.0	181.1	165.3	152.9	143.4	144.9	148.7	149.7
60°	2883.1	1968.2	376.4	204.6	178.2	160.5	144.8	132.8	132.4	135.5	136.0
62.5°	3195.9	2226.8	454.5	205.6	180.1	154.5	134.0	122.3	120.7	121.6	122.0
65°	3518.0	2413.9	425.3	201.4	185.8	149.5	124.5	112.1	109.2	108.6	108.9
67.5°	3528.0	2213.4	298.2	192.9	188.3	146.8	117.3	103.3	98.6	96.8	96.5
70°	3163.9	1798.2	232.2	184.0	178.8	142.6	110.8	96.2	89.1	86.2	86.0
71°	2986.3	1655.3	220.1	179.5	171.6	138.4	107.8	93.1	85.7	82.5	82.0
72.5°	2707.6	1483.9	205.3	172.4	157.9	127.6	102.3	88.6	81.0	77.2	76.5
75°	1943.1	970.4	176.3	153.7	130.8	101.7	89.6	79.6	73.0	68.6	68.0
77.5°	748.7	386.2	133.4	127.8	100.1	79.6	73.8	68.8	64.1	59.6	59.3
80°	231.5	172.7	97.3	96.2	72.5	59.3	57.5	56.2	54.3	49.6	48.5
82.5°	123.6	99.1	67.0	62.2	47.4	39.5	41.6	42.2	42.5	37.4	36.9
85°	59.1	52.4	37.7	35.3	27.7	22.2	25.5	27.7	27.9	22.9	21.3
87.5°	28.2	27.4	17.7	13.4	10.2	7.4	8.9	11.1	12.1	8.7	7.6
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)