

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: P481000

Luminaire Tested: **IFLD-S-SA2C-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481000
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

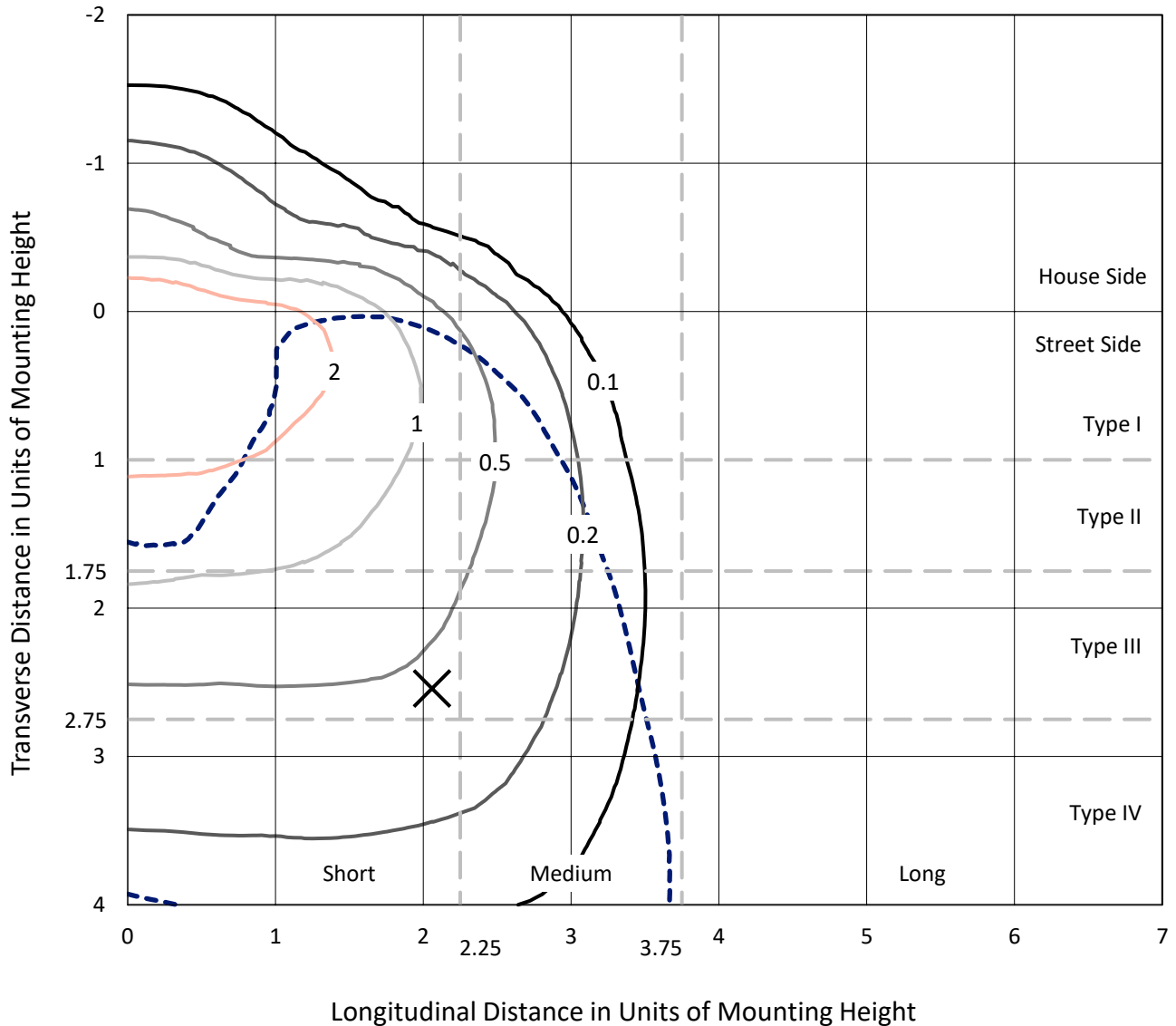
Lumens per Lamp: N/A
Luminaire Lumens: 10106.4 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 108.2
Input Voltage (V): 120
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: P481000
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

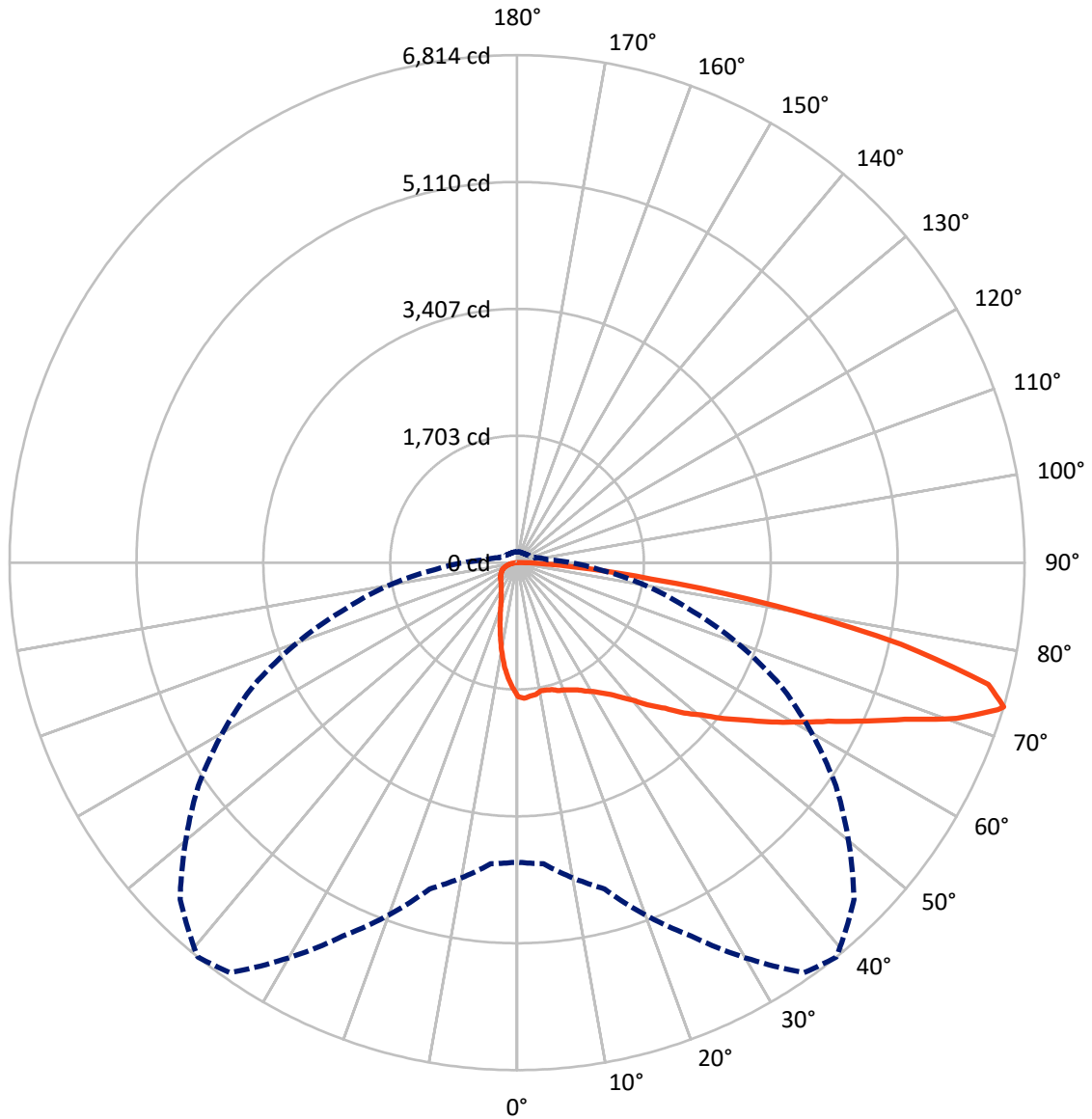
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P481000
CATALOG NUMBER: IFLD-S-SA2C-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P481000
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SL4

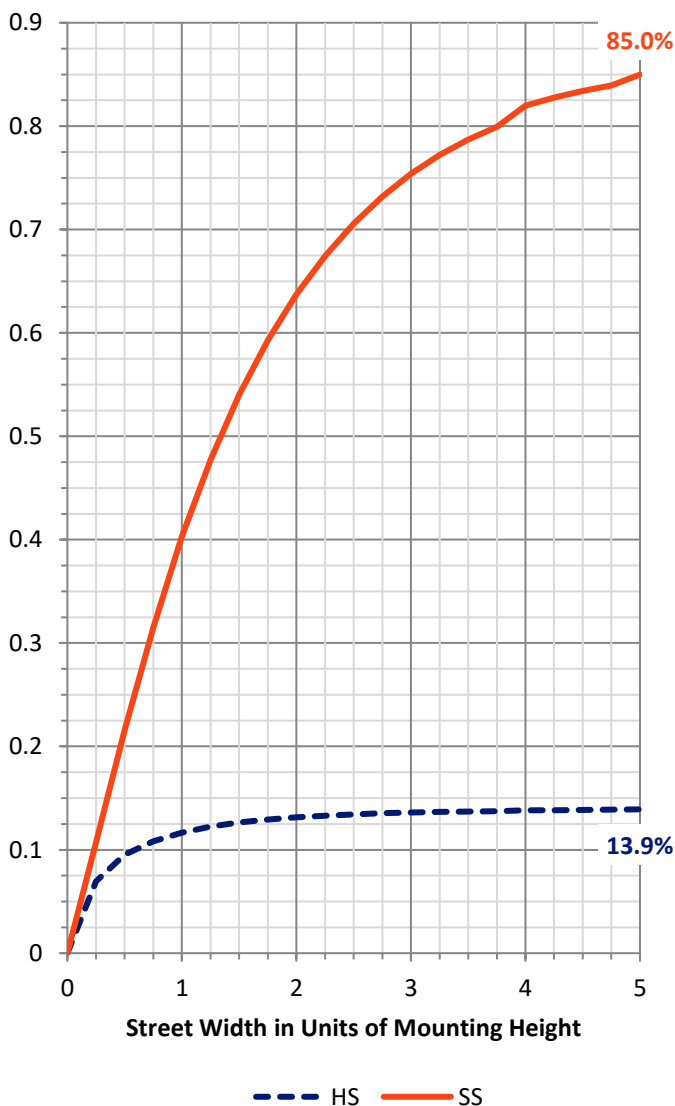
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.7	0.0	1420.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8685.7	0.0	8685.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	10106.4	0.0	10106.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	1.5
10°-20°	397.0	3.9
20°-30°	606.7	6.0
30°-40°	884.5	8.8
40°-50°	1336.6	13.2
50°-60°	1935.5	19.2
60°-70°	2459.1	24.3
70°-80°	1993.5	19.7
80°-90°	337.3	3.3
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°	10106.4	100.0
0°-180°	10106.4	100.0

Coefficient of Utilization



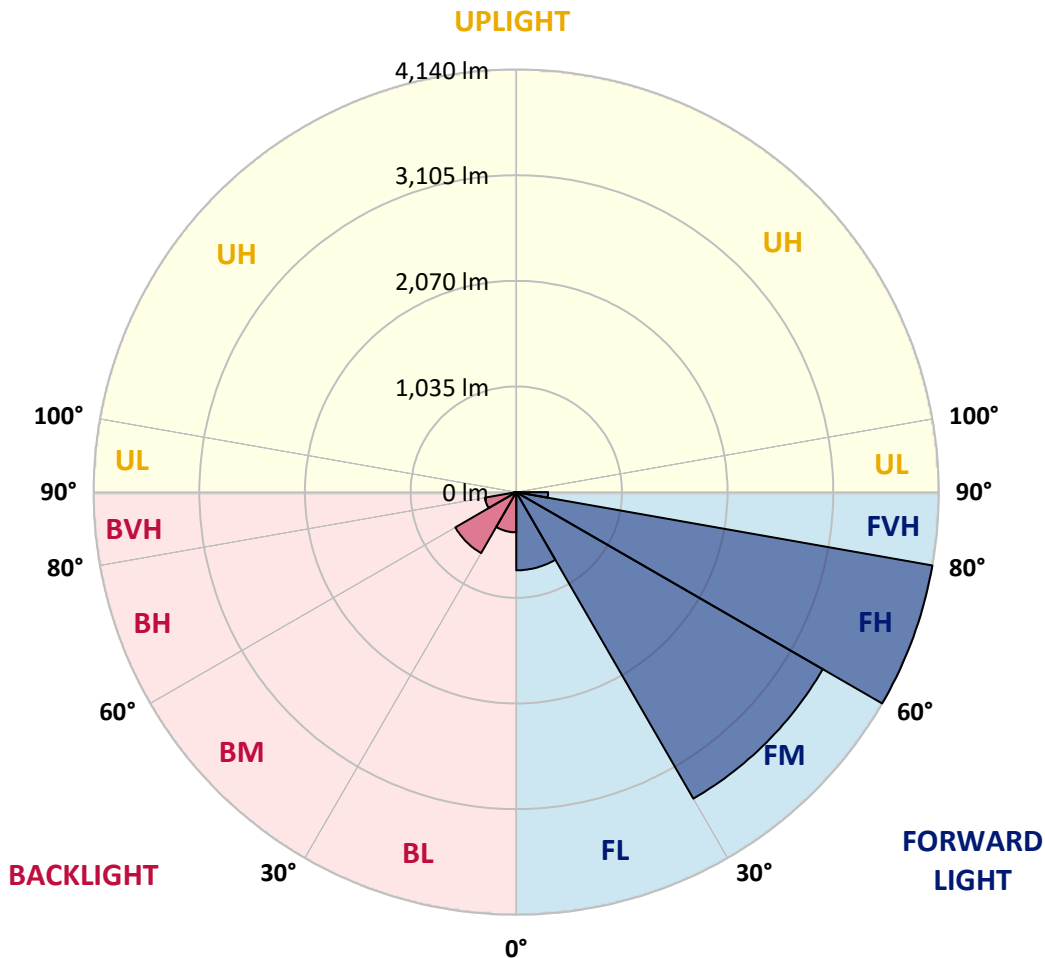
REPORT NUMBER: P481000
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.8	7.6			
FM (30°-60°)	3467.1	34.3			
FH (60°-80°)	4140.2	41.0			G2/5000
FVH (80°-90°)	312.5	3.1			G3/500
BL (0°-30°)	394.0	3.9	B1/500		
BM (30°-60°)	689.5	6.8	B1/1000		
BH (60°-80°)	312.5	3.1	B1/500		G1/500
BVH (80°-90°)	24.7	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-G3

Type IV Short





REPORT NUMBER: P481000
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0
2.5°	1842.0	1822.7	1826.1	1819.4	1826.1	1823.9	1820.5	1803.5	1820.5	1803.5	1799.0
5°	1817.1	1817.1	1828.4	1811.4	1813.7	1802.4	1813.7	1801.3	1790.0	1761.7	1753.8
7.5°	1809.2	1808.0	1809.2	1785.4	1796.7	1790.0	1778.6	1765.1	1742.5	1724.4	1698.4
10°	1754.9	1766.2	1753.8	1760.6	1769.6	1749.2	1748.1	1744.7	1734.5	1710.8	1695.0
12.5°	1725.5	1744.7	1751.5	1745.9	1753.8	1756.0	1749.2	1744.7	1732.3	1716.5	1671.2
15°	1737.9	1715.3	1734.5	1771.9	1763.9	1769.6	1770.7	1766.2	1760.6	1731.2	1701.8
17.5°	1741.3	1727.8	1768.5	1776.4	1786.6	1806.9	1793.3	1792.2	1770.7	1750.4	1707.4
20°	1749.2	1743.6	1776.4	1818.2	1819.4	1822.7	1829.5	1812.6	1801.3	1766.2	1700.6
22.5°	1778.6	1797.9	1828.4	1846.5	1856.7	1858.9	1858.9	1825.0	1812.6	1784.3	1732.3
25°	1866.8	1846.5	1889.5	1910.9	1896.2	1892.9	1884.9	1854.4	1840.8	1816.0	1747.0
27.5°	1931.3	1930.2	1955.0	1984.4	1944.9	1952.8	1924.5	1915.5	1884.9	1871.4	1773.0
30°	2019.5	2044.4	2043.2	2052.3	2000.3	2009.3	1973.1	1956.2	1939.2	1947.1	1849.9
32.5°	2132.6	2123.5	2138.2	2131.4	2079.4	2087.3	2044.4	2018.4	2024.0	2047.8	1955.0
35°	2204.9	2195.9	2201.5	2201.5	2185.7	2176.7	2158.6	2124.7	2151.8	2195.9	2072.6
37.5°	2283.0	2294.3	2327.1	2320.3	2299.9	2299.9	2297.7	2273.9	2309.0	2417.5	2260.3
40°	2351.9	2382.5	2402.8	2416.4	2440.1	2440.1	2459.4	2445.8	2509.1	2683.2	2489.9
42.5°	2424.3	2425.4	2536.2	2546.4	2599.6	2622.2	2636.9	2648.2	2766.9	2961.4	2735.3
45°	2517.0	2522.7	2619.9	2697.9	2780.5	2788.4	2843.8	2881.1	3027.0	3265.6	3002.1
47.5°	2639.1	2632.4	2736.4	2860.8	2963.7	3017.9	3084.6	3125.4	3305.1	3595.7	3293.8
50°	2799.7	2779.3	2839.3	3034.9	3155.9	3215.8	3334.5	3402.4	3612.7	3911.2	3494.0
52.5°	2995.3	2961.4	3008.9	3222.6	3358.3	3479.3	3592.3	3668.1	3887.5	4155.5	3642.1
55°	3202.2	3132.1	3145.7	3421.6	3617.2	3731.4	3886.3	3965.5	4189.4	4374.8	3790.2
57.5°	3406.9	3362.8	3335.7	3612.7	3925.9	4035.6	4178.1	4281.0	4470.9	4569.3	3915.7
60°	3578.8	3567.5	3523.4	3909.0	4252.7	4346.5	4495.8	4559.1	4702.7	4749.1	3918.0
62.5°	3720.1	3681.7	3751.8	4147.5	4585.1	4691.4	4855.4	4861.0	4962.8	4861.0	3802.7
65°	3830.9	3833.2	3945.1	4435.9	4969.6	5126.8	5259.1	5244.4	5178.8	4794.3	3530.2
67.5°	3931.6	3974.5	4138.5	4752.5	5463.7	5611.8	5758.8	5564.4	5237.6	4482.2	2997.6
70°	4010.7	4053.7	4399.7	5138.1	6046.0	6263.1	6295.9	5691.0	4967.3	3797.0	2261.5
72.5°	4001.7	4079.7	4547.8	5445.6	6562.8	6750.5	6485.9	5334.8	4138.5	2647.1	1319.6
73°	4020.9	4059.3	4535.4	5531.6	6720.0	6813.8	6397.7	5222.9	3903.3	2374.5	1116.0
75°	3650.0	3780.1	4310.4	5391.3	6551.5	6534.5	5891.1	4352.2	2774.8	1247.2	540.5
77.5°	2700.2	2782.7	3396.7	4433.6	5377.8	5269.2	4443.8	2781.6	1317.3	462.5	291.7
80°	1319.6	1384.0	1800.1	2560.0	3516.6	3525.6	2757.9	1447.3	564.2	261.2	199.0
82.5°	659.2	697.7	865.0	1125.1	1730.0	1812.6	1398.7	823.2	349.4	148.1	113.1
85°	430.8	457.9	532.6	550.7	733.8	774.6	651.3	642.3	227.3	80.3	91.6
87.5°	286.1	290.6	326.8	278.2	294.0	282.7	314.3	404.8	66.7	33.9	24.9
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: P481000
 CATALOG NUMBER: IFLD-S-SA2C-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0	1799.0
2.5°	1793.3	1777.5	1760.6	1736.8	1719.8	1693.8	1670.1	1659.9	1657.7	1658.8	1647.5
5°	1747.0	1724.4	1690.5	1641.8	1613.6	1570.6	1534.4	1515.2	1494.8	1498.2	1489.2
7.5°	1682.5	1657.7	1605.6	1549.1	1479.0	1417.9	1384.0	1336.5	1309.4	1289.0	1300.3
10°	1662.2	1619.2	1541.2	1463.2	1354.6	1274.3	1196.3	1142.0	1104.7	1068.5	1084.4
12.5°	1652.0	1609.0	1500.5	1385.2	1244.9	1122.8	1013.1	946.4	893.3	861.6	874.1
15°	1643.0	1589.8	1462.0	1299.2	1142.0	981.5	858.2	770.0	719.1	688.6	692.0
17.5°	1655.4	1579.6	1405.5	1215.5	1029.0	857.1	720.3	628.7	576.7	557.5	552.9
20°	1643.0	1568.3	1350.1	1131.9	915.9	738.4	607.2	531.4	495.3	479.4	476.0
22.5°	1647.5	1541.2	1292.4	1039.1	810.7	638.9	531.4	473.8	445.5	437.6	439.9
25°	1669.0	1525.4	1234.8	937.4	706.7	565.4	482.8	438.7	418.4	410.5	412.7
27.5°	1684.8	1538.9	1182.7	841.3	618.5	499.8	442.1	412.7	399.1	393.5	392.4
30°	1724.4	1546.8	1131.9	755.3	546.1	456.8	413.8	390.1	381.1	377.7	376.5
32.5°	1783.2	1561.5	1073.1	676.2	493.0	416.1	391.2	370.9	368.6	365.2	366.4
35°	1879.3	1612.4	1007.5	608.3	442.1	389.0	367.5	353.9	353.9	353.9	357.3
37.5°	2017.2	1683.7	948.7	543.9	409.3	365.2	347.1	342.6	340.4	343.7	346.0
40°	2194.8	1769.6	901.2	493.0	381.1	349.4	333.6	331.3	330.2	329.0	331.3
42.5°	2389.2	1879.3	860.5	453.4	360.7	332.4	321.1	318.9	314.3	316.6	320.0
45°	2582.6	2015.0	824.3	421.8	347.1	323.4	307.6	306.4	304.2	303.0	308.7
47.5°	2797.4	2148.4	813.0	402.5	337.0	309.8	298.5	297.4	290.6	289.5	294.0
50°	2964.8	2246.8	825.4	393.5	322.3	299.6	291.7	286.1	280.4	274.8	274.8
52.5°	3080.1	2314.6	834.5	386.7	314.3	286.1	275.9	273.6	268.0	262.3	260.1
55°	3184.2	2355.3	836.7	387.8	306.4	270.2	263.5	262.3	258.9	249.9	247.6
57.5°	3219.2	2338.4	791.5	377.7	301.9	260.1	251.0	253.3	248.8	240.8	239.7
60°	3215.8	2220.8	688.6	364.1	291.7	248.8	237.5	244.2	244.2	235.2	234.1
62.5°	3020.2	1949.4	563.1	338.1	280.4	237.5	225.0	235.2	238.6	232.9	231.8
65°	2614.3	1587.6	470.4	312.1	263.5	225.0	212.6	223.9	229.5	227.3	226.1
67.5°	2163.1	1214.4	391.2	278.2	242.0	208.1	197.9	205.8	209.2	210.3	211.4
70°	1528.8	808.5	326.8	240.8	212.6	190.0	178.7	179.8	178.7	182.0	182.0
72.5°	831.1	465.9	265.7	204.7	183.2	165.1	157.2	151.5	151.5	150.4	150.4
73°	711.2	418.4	253.3	199.0	175.3	160.6	151.5	147.0	147.0	145.9	144.7
75°	399.1	306.4	217.1	170.7	151.5	140.2	133.4	126.6	125.5	125.5	125.5
77.5°	262.3	238.6	173.0	136.8	122.1	111.9	109.7	102.9	102.9	102.9	101.8
80°	196.7	187.7	133.4	104.0	93.9	85.9	83.7	79.2	78.0	73.5	74.6
82.5°	131.2	148.1	97.2	73.5	63.3	58.8	58.8	57.7	54.3	48.6	48.6
85°	104.0	121.0	70.1	45.2	37.3	31.7	32.8	31.7	30.5	24.9	23.7
87.5°	19.2	48.6	20.4	12.4	9.0	5.7	5.7	3.4	2.3	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)