

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: P480491

Luminaire Tested: **IFLD-S-SA2A-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480491
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

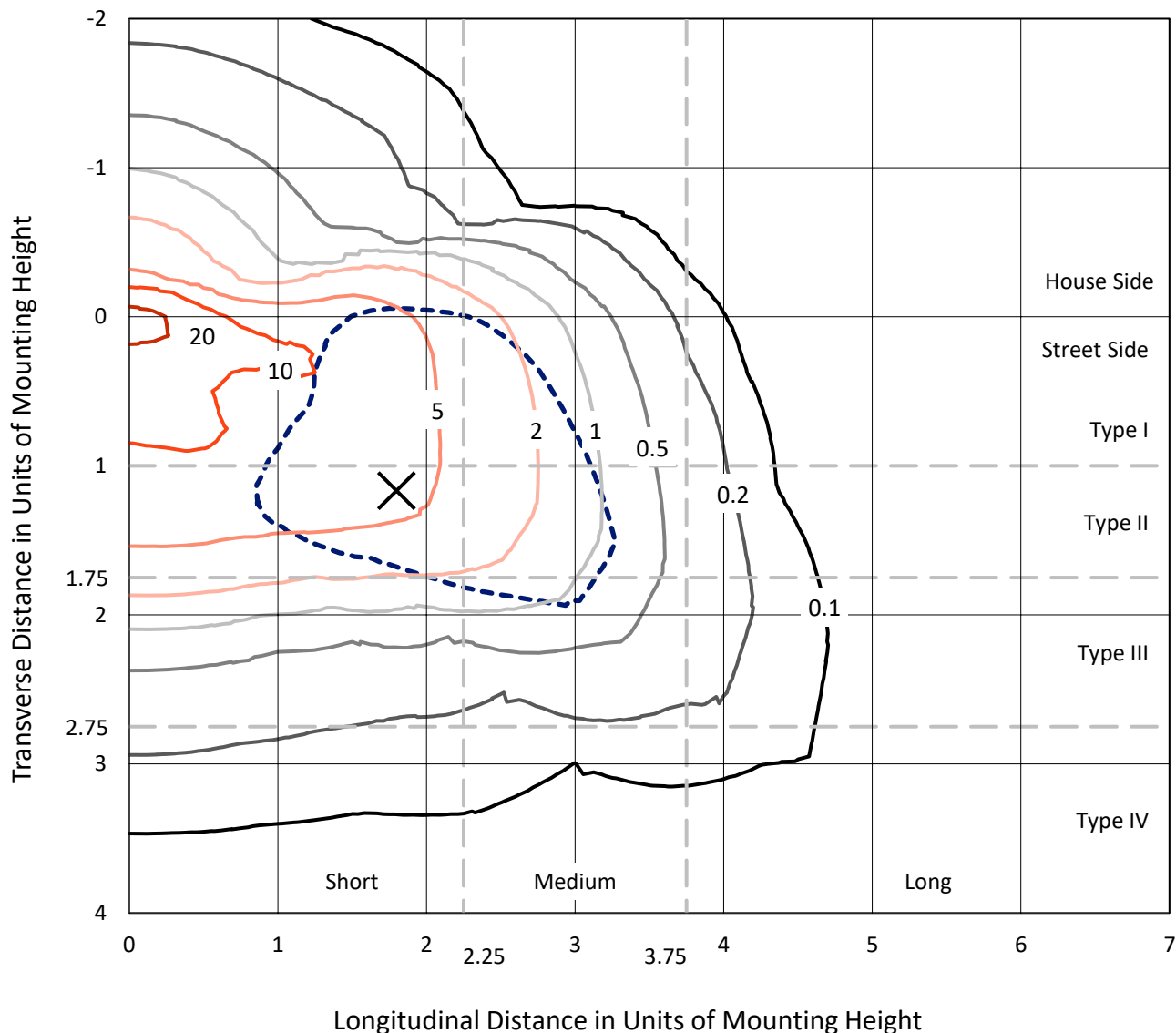
Lumens per Lamp: N/A
Luminaire Lumens: 9109.6 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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: P480491
 CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

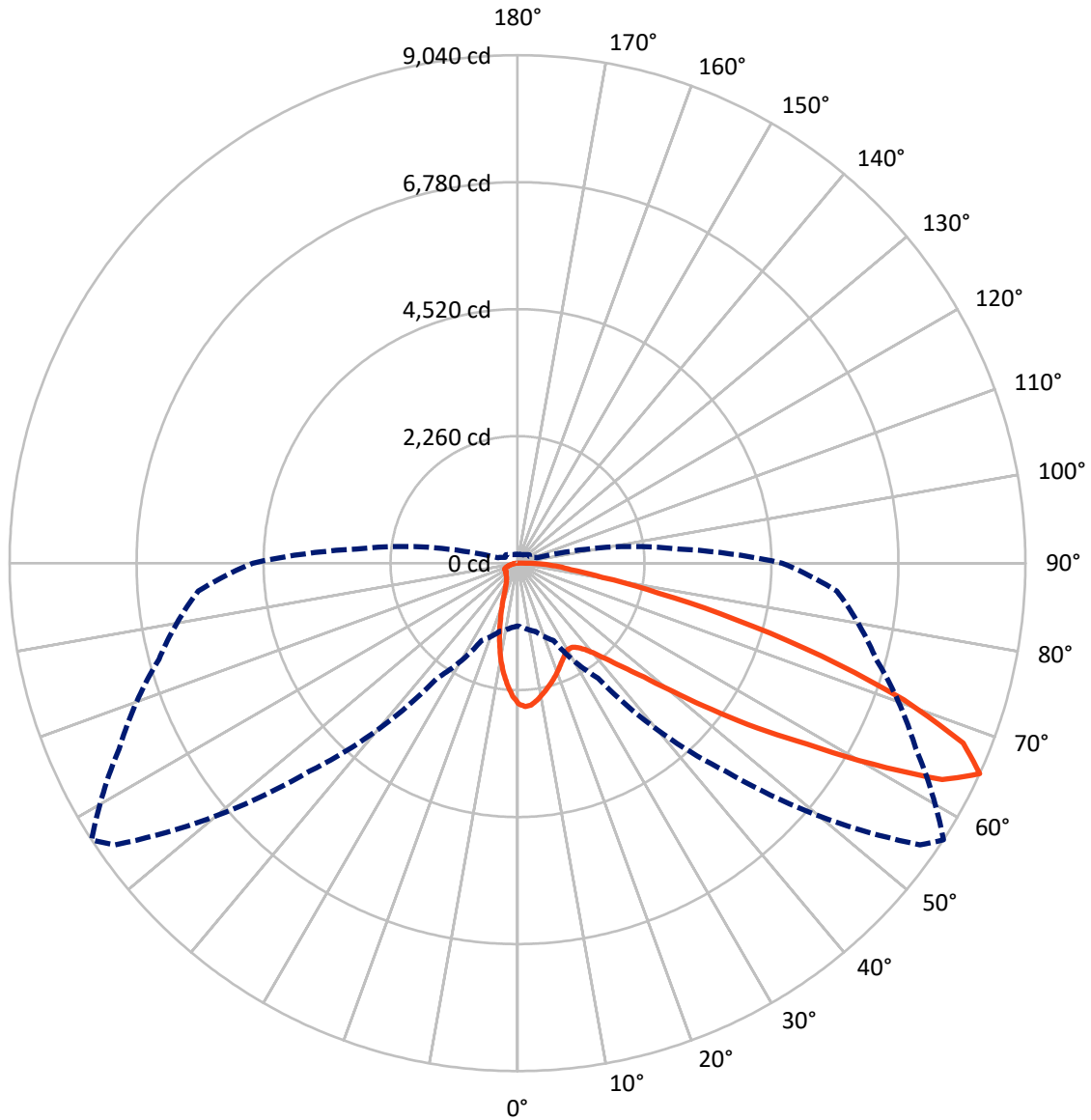
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25 fc
 Type III - Short - N/A

REPORT NUMBER: P480491
CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3

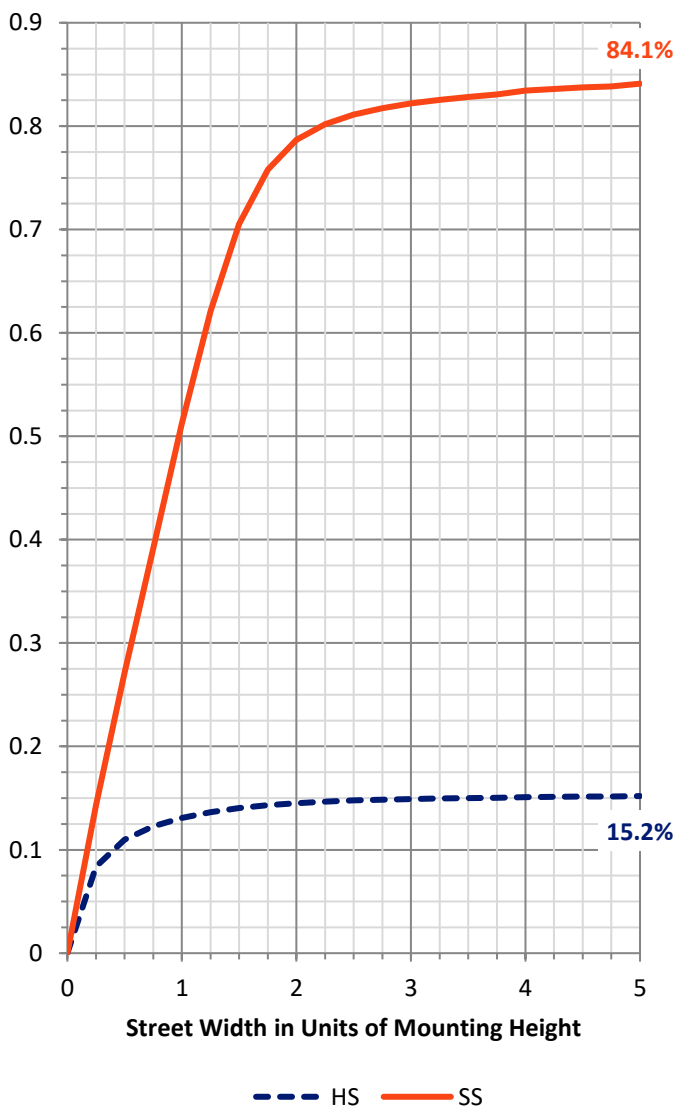
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1397.0	0.0	1397.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7712.6	0.0	7712.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	9109.6	0.0	9109.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	2.3
10°-20°	451.5	5.0
20°-30°	583.7	6.4
30°-40°	785.5	8.6
40°-50°	1252.5	13.7
50°-60°	2212.2	24.3
60°-70°	2433.7	26.7
70°-80°	1018.1	11.2
80°-90°	162.7	1.8
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°	9109.6	100.0
0°-180°	9109.6	100.0

Coefficient of Utilization

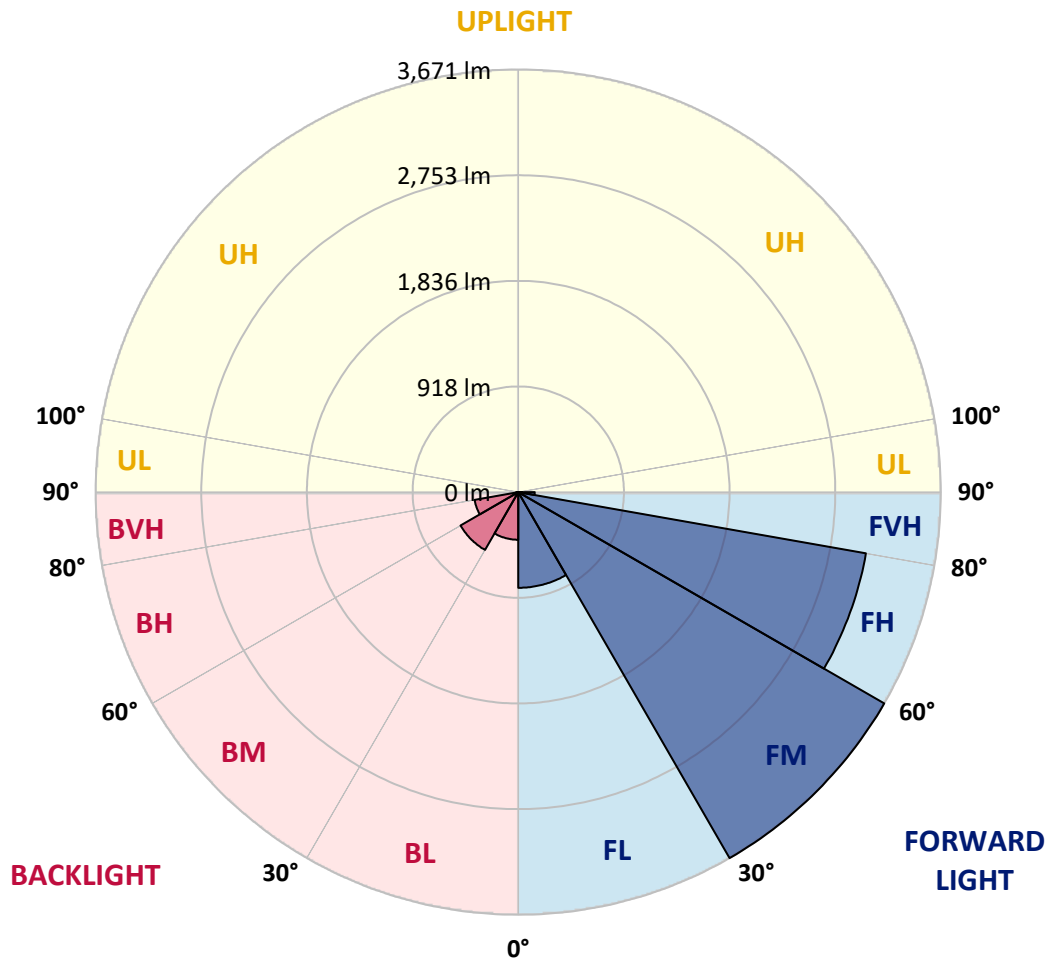


REPORT NUMBER: P480491
 CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.2	9.1			
FM (30°-60°)	3671.2	40.3			
FH (60°-80°)	3066.6	33.7			G2/5000
FVH (80°-90°)	143.6	1.6			G2/225
BL (0°-30°)	413.7	4.5	B1/500		
BM (30°-60°)	579.0	6.4	B1/1000		
BH (60°-80°)	385.2	4.2	B1/500		G1/500
BVH (80°-90°)	19.1	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 Short





REPORT NUMBER: P480491
 CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0
2.5°	2572.7	2576.8	2576.8	2585.0	2557.3	2570.6	2568.6	2556.3	2560.4	2538.9	2517.3
5°	2499.9	2496.8	2513.2	2515.3	2536.8	2543.0	2548.1	2539.9	2541.9	2494.8	2474.3
7.5°	2313.4	2312.3	2340.0	2363.6	2408.7	2450.7	2478.4	2470.2	2481.5	2451.7	2403.6
10°	2092.0	2115.5	2144.2	2167.8	2250.8	2304.1	2375.9	2383.1	2426.1	2418.9	2331.8
12.5°	1925.9	1936.2	1957.7	2025.3	2101.2	2189.3	2291.8	2301.1	2343.1	2363.6	2287.7
15°	1789.6	1798.8	1826.5	1876.7	1961.8	2066.3	2196.5	2220.1	2304.1	2311.3	2230.3
17.5°	1690.2	1697.4	1715.8	1766.0	1835.7	1970.0	2093.0	2135.0	2245.7	2280.6	2170.9
20°	1651.2	1635.9	1646.1	1677.9	1747.6	1851.1	2010.0	2046.9	2188.3	2257.0	2114.5
22.5°	1633.8	1620.5	1626.6	1624.6	1679.9	1753.7	1920.8	1959.7	2134.0	2229.3	2064.3
25°	1647.1	1647.1	1641.0	1635.9	1642.0	1690.2	1824.4	1884.9	2061.2	2205.7	2013.0
27.5°	1718.9	1691.2	1694.3	1672.8	1666.6	1666.6	1781.4	1817.3	2037.6	2192.4	1971.0
30°	1765.0	1778.3	1779.4	1747.6	1715.8	1658.4	1741.4	1776.3	2018.2	2208.8	1946.4
32.5°	1882.9	1876.7	1859.3	1853.1	1806.0	1741.4	1760.9	1784.5	2006.9	2245.7	1953.6
35°	2000.7	1997.7	1998.7	1995.6	1946.4	1851.1	1813.2	1844.9	2027.4	2310.3	1978.2
37.5°	2122.7	2130.9	2165.8	2165.8	2113.5	2010.0	1959.7	1950.5	2102.2	2415.9	2036.6
40°	2244.7	2265.2	2309.3	2379.0	2305.2	2208.8	2127.8	2113.5	2192.4	2557.3	2177.0
42.5°	2361.5	2395.4	2482.5	2586.0	2561.4	2465.1	2357.4	2341.0	2377.9	2767.4	2372.8
45°	2511.2	2539.9	2677.2	2836.1	2869.9	2784.8	2658.8	2645.5	2643.4	3074.9	2642.4
47.5°	2738.7	2769.5	2906.8	3066.7	3171.3	3184.6	3043.1	3028.8	2979.6	3490.0	3037.0
50°	3023.7	3073.9	3189.7	3376.3	3528.0	3670.4	3630.4	3588.4	3492.1	3972.8	3537.2
52.5°	3231.7	3293.2	3450.1	3688.9	3956.4	4182.9	4326.4	4326.4	4105.0	4502.7	4138.8
55°	3287.1	3324.0	3521.8	3867.2	4325.4	4898.3	5198.7	5176.1	4834.8	5060.3	4838.9
57.5°	3066.7	3114.9	3354.7	3716.5	4519.1	5567.6	6064.8	6069.9	5632.2	5708.1	5529.7
60°	2459.9	2475.3	2758.2	3242.0	4332.6	6106.8	7247.6	7267.0	6539.3	6285.1	5881.3
62.5°	1700.4	1749.6	1962.8	2387.2	3589.4	6046.3	8388.4	8484.7	7266.0	6589.5	5936.6
65°	1119.3	1149.0	1262.8	1521.1	2498.9	5240.7	8743.0	9040.2	7821.6	6607.0	5705.0
67.5°	811.8	816.9	850.7	984.0	1501.6	3768.8	8137.2	8556.5	8029.6	6461.4	5161.8
70°	656.0	660.1	672.4	757.5	969.6	2358.5	6636.7	7293.7	7405.4	5771.6	4157.3
72.5°	533.0	538.1	553.5	633.4	799.5	1312.0	4853.2	5653.7	6023.8	4270.0	2763.3
75°	419.2	423.3	460.2	539.1	751.3	900.9	3219.4	4003.5	4053.8	2495.8	1293.5
77.5°	287.0	294.2	339.3	457.1	707.2	788.2	2006.9	2564.5	2301.1	976.8	444.8
80°	182.4	192.7	219.3	346.4	625.2	752.3	1248.4	1531.3	1007.5	334.1	214.2
82.5°	107.6	117.9	144.5	224.5	491.0	698.0	879.4	958.3	472.5	171.2	129.1
85°	59.4	66.6	87.1	135.3	288.0	620.1	704.2	687.8	270.6	91.2	81.0
87.5°	19.5	22.5	31.8	54.3	118.9	292.1	422.3	396.7	140.4	42.0	31.8
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: P480491
 CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0	2505.0
2.5°	2503.0	2499.9	2453.8	2418.9	2359.5	2310.3	2290.8	2264.2	2263.1	2243.7	2238.5
5°	2442.5	2410.7	2340.0	2272.4	2166.8	2096.1	2031.5	1986.4	1967.9	1928.0	1918.7
7.5°	2364.6	2322.6	2213.9	2086.8	1962.8	1852.1	1751.7	1651.2	1594.9	1575.4	1553.9
10°	2283.6	2209.8	2048.9	1906.4	1733.2	1563.1	1405.2	1263.8	1186.9	1132.6	1109.0
12.5°	2219.1	2120.7	1915.7	1702.5	1473.9	1246.4	1062.9	914.3	827.2	786.2	767.7
15°	2146.3	2016.1	1770.1	1500.6	1215.6	957.3	778.0	661.1	626.3	606.8	603.7
17.5°	2069.4	1918.7	1612.3	1301.7	963.5	720.6	604.7	557.6	542.2	534.0	529.9
20°	1997.7	1831.6	1450.3	1080.3	754.4	578.1	523.8	499.2	498.1	502.2	501.2
22.5°	1896.2	1717.9	1290.4	875.3	602.7	503.3	468.4	462.3	468.4	473.5	475.6
25°	1838.8	1624.6	1112.1	694.9	498.1	446.9	435.6	433.6	442.8	448.9	447.9
27.5°	1779.4	1528.2	946.0	556.6	436.6	406.9	404.9	406.9	416.1	425.4	424.3
30°	1733.2	1451.4	790.3	465.3	389.5	378.2	376.2	378.2	383.3	384.4	384.4
32.5°	1695.3	1360.1	658.0	403.8	360.8	351.6	353.6	352.6	353.6	354.6	355.7
35°	1672.8	1305.8	549.4	365.9	337.2	330.0	329.0	325.9	327.0	328.0	327.0
37.5°	1720.9	1279.2	463.3	339.3	320.8	314.7	312.6	310.6	307.5	307.5	307.5
40°	1793.7	1264.8	411.0	321.8	308.5	301.3	295.2	293.1	293.1	294.2	295.2
42.5°	1938.2	1288.4	375.1	308.5	293.1	284.9	278.8	279.8	282.9	286.0	283.9
45°	2147.3	1360.1	358.7	298.3	283.9	272.6	268.5	267.5	270.6	275.7	279.8
47.5°	2421.0	1471.9	352.6	289.0	277.8	262.4	257.3	260.3	264.4	271.6	268.5
50°	2868.9	1723.0	357.7	280.8	268.5	257.3	251.1	248.0	251.1	256.2	258.3
52.5°	3454.2	2179.1	377.2	276.7	262.4	253.2	242.9	237.8	240.9	245.0	245.0
55°	4154.2	2802.3	431.5	271.6	252.1	247.0	235.7	225.5	227.5	227.5	226.5
57.5°	4771.2	3272.7	496.1	264.4	246.0	238.8	224.5	212.2	210.1	211.1	212.2
60°	5048.0	3397.8	526.8	262.4	246.0	228.6	209.1	196.8	193.7	191.7	191.7
62.5°	4999.8	3181.5	464.3	253.2	252.1	220.4	194.7	181.4	177.3	173.2	174.2
65°	4708.7	2873.0	365.9	240.9	253.2	215.2	180.4	167.1	159.9	154.8	153.7
67.5°	4176.8	2452.8	290.1	231.6	242.9	206.0	168.1	152.7	146.6	141.4	139.4
70°	3267.6	1922.8	252.1	219.3	218.3	183.5	153.7	140.4	131.2	125.0	125.0
72.5°	2118.6	1215.6	216.3	194.7	188.6	153.7	133.2	125.0	117.9	112.7	112.7
75°	959.4	564.8	174.2	163.0	153.7	123.0	112.7	108.6	102.5	97.4	97.4
77.5°	344.4	240.9	130.2	128.1	114.8	95.3	91.2	88.1	84.0	78.9	78.9
80°	192.7	152.7	97.4	93.3	79.9	70.7	65.6	65.6	63.5	60.5	59.4
82.5°	122.0	99.4	71.7	62.5	52.3	47.1	45.1	44.1	43.0	38.9	37.9
85°	76.9	67.6	47.1	36.9	30.7	23.6	22.5	21.5	19.5	17.4	17.4
87.5°	34.8	38.9	18.4	11.3	8.2	5.1	3.1	1.0	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)