

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: P484391

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

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484391
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-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

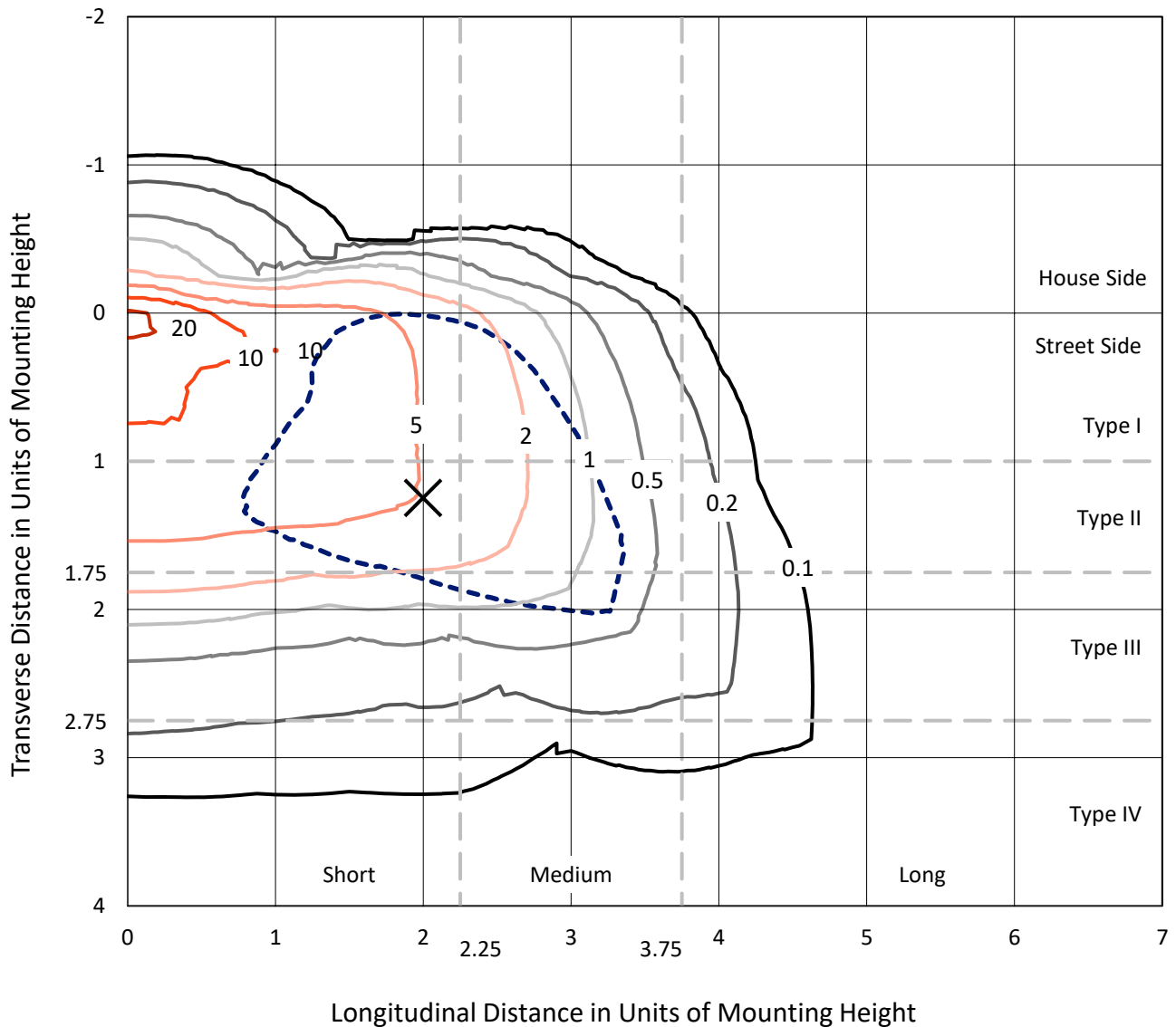
Lumens per Lamp: N/A
Luminaire Lumens: 7720.9 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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: P484391
 CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

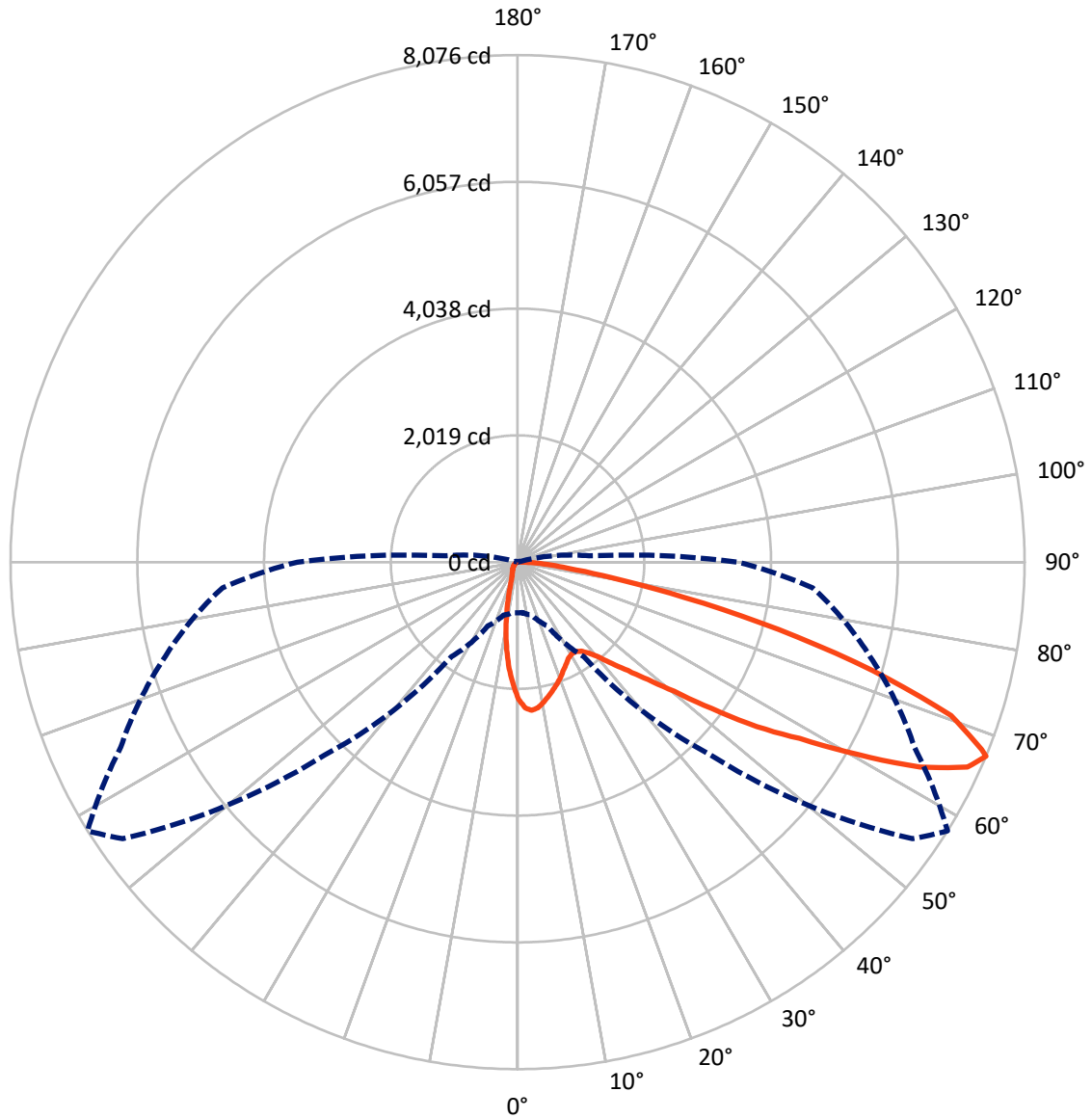
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type III - Short - N/A

REPORT NUMBER: P484391
CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484391

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

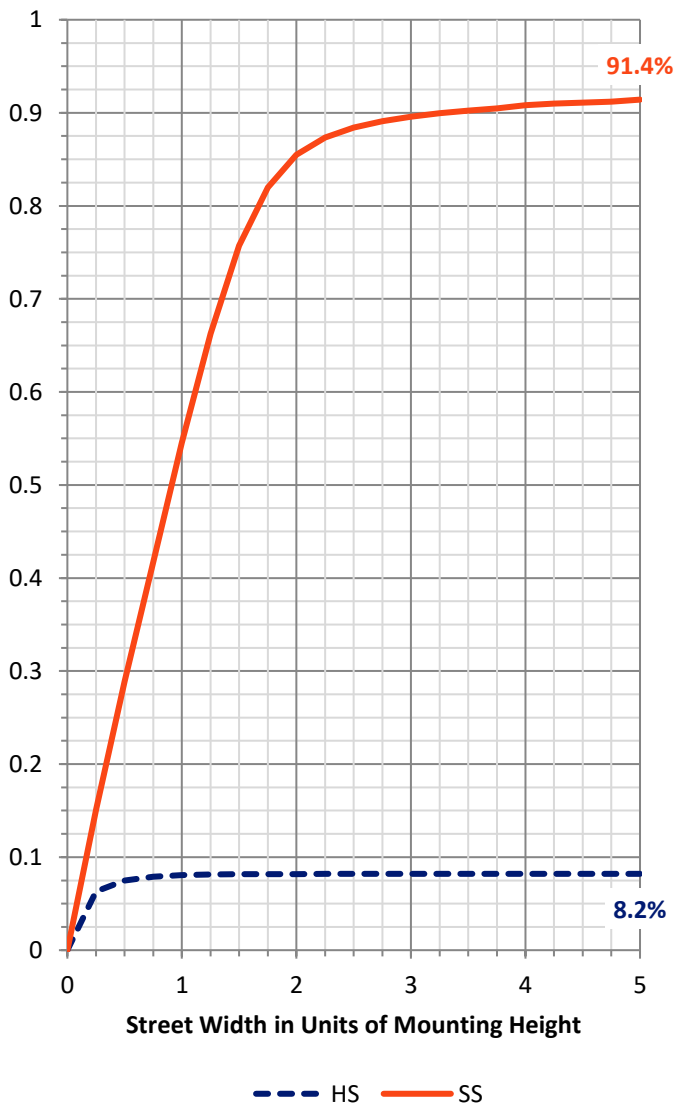
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	638.2	0.0	638.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	7082.7	0.0	7082.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	7720.9	0.0	7720.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	2.2
10°-20°	360.0	4.7
20°-30°	477.6	6.2
30°-40°	661.9	8.6
40°-50°	1080.0	14.0
50°-60°	1898.2	24.6
60°-70°	2102.4	27.2
70°-80°	871.3	11.3
80°-90°	95.9	1.2
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°	7720.9	100.0
0°-180°	7720.9	100.0



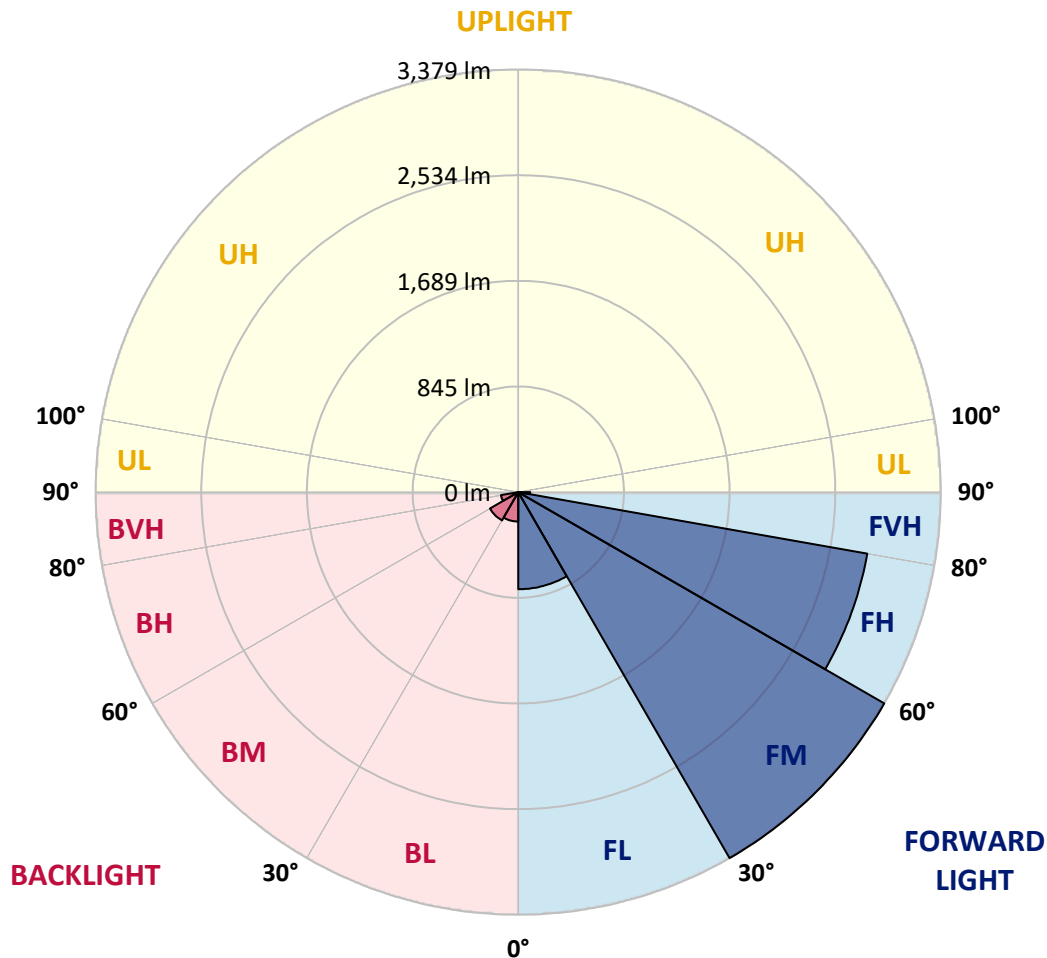
REPORT NUMBER: P484391
 CATALOG NUMBER: IFLD-S-SA2A-740-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.2	10.1			
FM (30°-60°)	3378.8	43.8			
FH (60°-80°)	2833.4	36.7			G2/5000
FVH (80°-90°)	94.3	1.2			G1/100
BL (0°-30°)	235.0	3.0	B1/500		
BM (30°-60°)	261.3	3.4	B1/1000		
BH (60°-80°)	140.3	1.8	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
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: P484391

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4
2.5°	2380.1	2388.3	2395.5	2382.2	2393.5	2377.1	2335.0	2325.8	2318.6	2256.1	2220.2
5°	2379.1	2369.9	2377.1	2383.2	2367.8	2380.1	2369.9	2370.9	2343.2	2286.9	2186.4
7.5°	2220.2	2216.1	2220.2	2250.0	2283.8	2310.4	2325.8	2341.2	2322.7	2238.7	2141.3
10°	2006.0	2026.5	2037.8	2091.1	2143.3	2192.6	2240.7	2269.4	2264.3	2230.5	2092.1
12.5°	1856.3	1850.2	1891.2	1926.0	1978.3	2077.7	2161.8	2188.5	2219.2	2172.0	2027.5
15°	1718.0	1701.6	1726.2	1786.6	1875.8	1954.7	2072.6	2112.6	2151.5	2163.8	1992.7
17.5°	1585.7	1593.9	1619.6	1673.9	1757.9	1868.6	1979.3	2036.7	2130.0	2113.6	1940.4
20°	1522.2	1539.6	1548.8	1576.5	1634.9	1745.6	1910.7	1956.8	2056.2	2112.6	1889.1
22.5°	1525.3	1525.3	1503.7	1520.1	1573.4	1659.5	1817.4	1868.6	2026.5	2059.3	1843.0
25°	1558.1	1537.6	1538.6	1519.1	1541.7	1588.8	1733.3	1795.9	1966.0	2064.4	1818.4
27.5°	1582.7	1578.6	1572.4	1567.3	1538.6	1545.8	1678.0	1729.2	1942.4	2058.3	1780.5
30°	1671.8	1653.4	1647.2	1636.0	1598.0	1563.2	1633.9	1698.5	1924.0	2072.6	1759.0
32.5°	1746.7	1749.7	1754.9	1722.1	1689.3	1603.2	1646.2	1697.5	1910.7	2105.4	1780.5
35°	1841.0	1854.3	1856.3	1846.1	1811.2	1726.2	1697.5	1741.5	1933.2	2163.8	1782.5
37.5°	1984.5	1970.1	2009.1	2013.2	1988.6	1875.8	1816.4	1833.8	1999.8	2257.1	1860.4
40°	2077.7	2095.2	2167.9	2213.1	2171.0	2068.5	1988.6	1985.5	2096.2	2403.7	1956.8
42.5°	2181.3	2220.2	2300.2	2397.6	2392.4	2297.1	2216.1	2202.8	2267.4	2615.9	2109.5
45°	2322.7	2357.6	2469.3	2615.9	2695.8	2614.9	2492.9	2466.2	2475.5	2904.9	2369.9
47.5°	2557.5	2548.2	2709.2	2853.7	2984.9	2922.4	2870.1	2792.2	2785.0	3245.3	2729.7
50°	2822.9	2820.9	2964.4	3128.4	3280.1	3402.1	3315.0	3229.9	3231.9	3707.6	3153.0
52.5°	3075.1	3115.1	3269.9	3432.8	3693.2	3824.4	3908.5	3874.6	3711.7	4120.6	3606.1
55°	3208.4	3243.2	3397.0	3677.8	4088.9	4426.1	4653.7	4625.0	4310.3	4586.0	4053.0
57.5°	3082.3	3105.9	3313.9	3681.9	4365.6	5118.0	5336.3	5300.5	4929.4	4941.7	4593.2
60°	2554.4	2591.3	2900.8	3332.4	4258.0	5651.0	6276.3	6222.0	5493.2	5391.7	4940.7
62.5°	1769.2	1793.8	2048.0	2585.1	3747.5	5836.6	7164.0	7193.7	6087.7	5742.2	5044.2
65°	1146.0	1143.9	1289.5	1653.4	2655.9	5274.8	7688.8	7873.3	6661.7	5795.5	5012.4
67°	809.8	806.7	875.4	1121.4	1838.9	4346.1	7679.6	8076.3	6973.3	5810.9	4718.2
67.5°	747.3	744.2	809.8	1031.2	1659.5	4041.7	7564.8	7971.7	7083.0	5789.4	4589.1
70°	580.2	572.0	596.6	710.3	966.6	2613.8	6474.1	7322.9	6855.4	5252.3	3664.5
72.5°	419.2	428.5	467.4	583.2	758.5	1406.3	4934.5	5921.6	5725.8	3958.7	2328.9
75°	292.1	300.3	362.9	475.6	696.0	852.8	3336.5	4294.9	3988.4	2185.4	992.2
77.5°	152.7	163.0	231.7	380.3	632.4	660.1	1993.7	2723.5	2113.6	778.0	273.7
80°	70.7	75.9	115.8	269.6	528.9	580.2	1162.4	1515.0	845.7	174.3	94.3
82.5°	30.8	33.8	53.3	154.8	375.2	507.4	719.6	794.4	306.5	56.4	58.4
85°	6.2	7.2	20.5	82.0	181.4	307.5	505.3	471.5	153.8	27.7	46.1
87.5°	0.0	0.0	5.1	23.6	49.2	91.2	214.2	214.2	47.2	14.4	17.4
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: P484391

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4	2187.4
2.5°	2188.5	2151.5	2070.6	1995.7	1942.4	1882.0	1802.0	1766.1	1752.8	1734.4	1706.7
5°	2131.0	2085.9	1947.6	1808.2	1655.4	1539.6	1416.6	1344.8	1290.5	1256.7	1245.4
7.5°	2050.1	1957.8	1771.3	1547.8	1350.0	1177.8	991.2	865.1	784.2	751.4	720.6
10°	1985.5	1865.6	1581.6	1303.8	1040.4	788.3	578.1	467.4	383.4	351.6	347.5
12.5°	1901.4	1757.9	1404.3	1054.8	723.7	469.5	319.8	277.8	254.2	250.1	247.0
15°	1831.7	1660.6	1236.2	817.0	468.4	293.2	249.1	238.8	232.7	230.6	231.7
17.5°	1784.6	1556.0	1064.0	594.5	308.5	239.9	229.6	223.5	220.4	219.4	216.3
20°	1691.3	1467.9	893.8	416.2	240.9	221.4	213.2	208.1	205.0	204.0	203.0
22.5°	1638.0	1356.1	723.7	290.1	214.2	200.9	194.8	190.7	185.5	182.5	181.4
25°	1584.7	1274.1	572.0	225.5	194.8	185.5	176.3	171.2	163.0	158.9	157.9
27.5°	1522.2	1193.1	440.8	195.8	175.3	166.1	156.8	148.6	138.4	134.3	132.2
30°	1486.3	1114.2	332.1	175.3	160.9	148.6	137.4	127.1	115.8	108.7	106.6
32.5°	1467.9	1042.5	249.1	159.9	145.6	132.2	117.9	105.6	95.3	89.2	88.2
35°	1445.3	972.8	195.8	145.6	131.2	116.9	102.5	90.2	80.0	74.8	72.8
37.5°	1468.9	931.8	163.0	134.3	119.9	103.5	88.2	75.9	67.7	62.5	61.5
40°	1533.5	897.9	141.5	124.0	108.7	91.2	76.9	64.6	57.4	53.3	51.3
42.5°	1632.9	897.9	128.1	113.8	98.4	80.0	65.6	56.4	49.2	45.1	44.1
45°	1813.3	925.6	116.9	103.5	86.1	68.7	56.4	47.2	40.0	35.9	34.9
47.5°	2066.5	989.2	107.6	94.3	76.9	60.5	49.2	40.0	32.8	28.7	27.7
50°	2406.8	1133.7	98.4	83.0	68.7	52.3	41.0	31.8	25.6	21.5	20.5
52.5°	2831.1	1338.7	89.2	76.9	58.4	44.1	32.8	25.6	19.5	16.4	15.4
55°	3280.1	1589.8	77.9	68.7	50.2	36.9	26.7	19.5	14.4	12.3	11.3
57.5°	3732.2	1783.6	68.7	59.5	41.0	29.7	21.5	15.4	10.3	8.2	7.2
60°	3972.0	1802.0	59.5	49.2	32.8	23.6	16.4	11.3	7.2	5.1	4.1
62.5°	4008.9	1638.0	51.3	40.0	26.7	18.5	11.3	8.2	4.1	2.1	2.1
65°	3819.3	1365.3	44.1	31.8	20.5	13.3	8.2	5.1	2.1	1.0	0.0
67°	3511.8	1143.9	37.9	26.7	16.4	10.3	6.2	3.1	1.0	0.0	0.0
67.5°	3392.9	1082.4	35.9	24.6	15.4	9.2	5.1	3.1	1.0	0.0	0.0
70°	2633.3	772.9	26.7	17.4	11.3	7.2	4.1	2.1	0.0	0.0	0.0
72.5°	1613.4	452.0	20.5	12.3	8.2	5.1	3.1	1.0	0.0	0.0	0.0
75°	676.5	155.8	17.4	9.2	6.2	3.1	2.1	1.0	0.0	0.0	0.0
77.5°	176.3	58.4	12.3	6.2	4.1	3.1	2.1	1.0	0.0	0.0	0.0
80°	71.8	26.7	8.2	4.1	4.1	3.1	2.1	1.0	0.0	0.0	0.0
82.5°	47.2	12.3	5.1	4.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0
85°	35.9	7.2	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	4.1	3.1	2.1	2.1	0.0	0.0	0.0	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)