

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: P480335

Luminaire Tested: **IFLD-S-SA2A-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480335
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

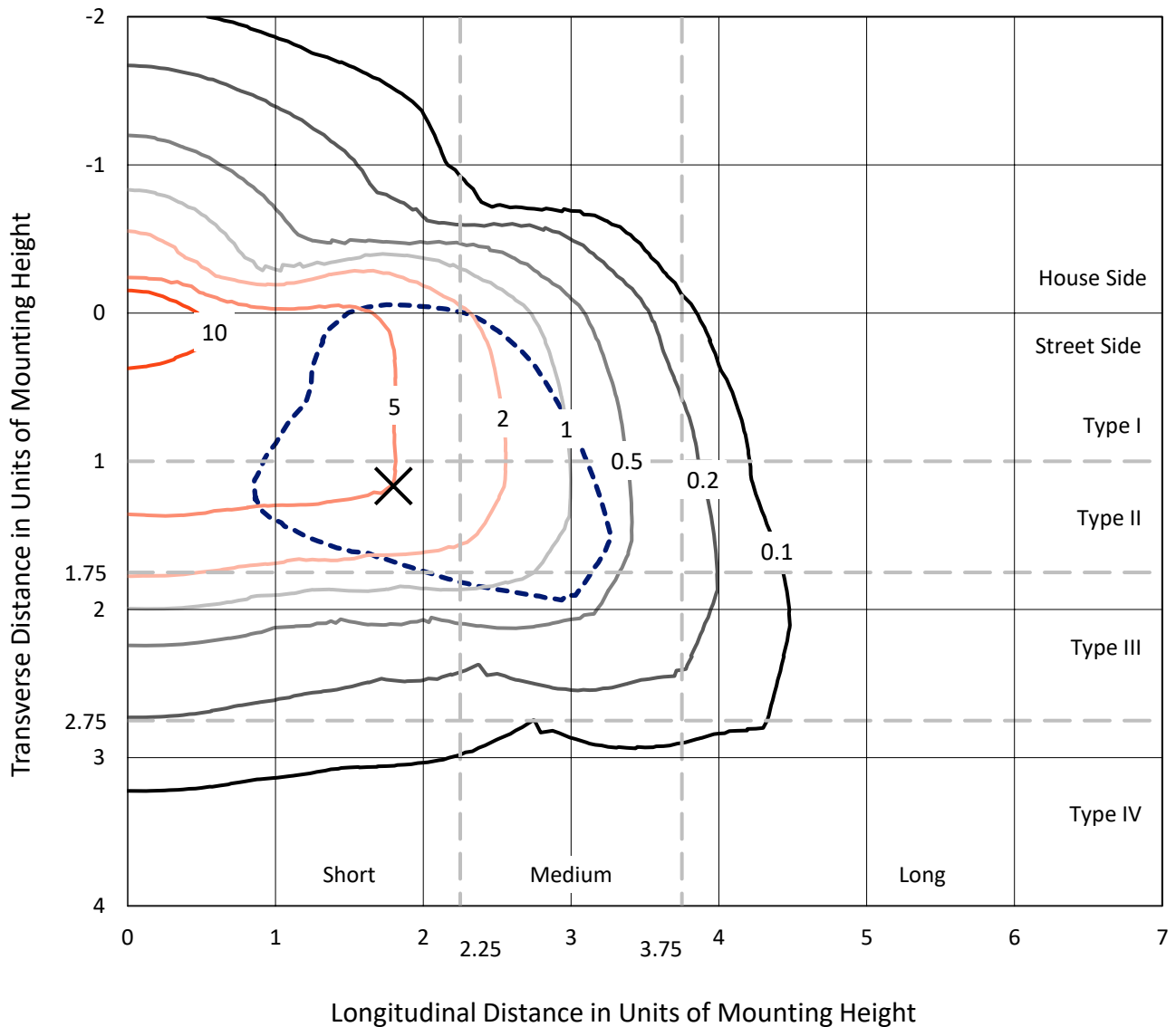
Lumens per Lamp: N/A
Luminaire Lumens: 6710.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

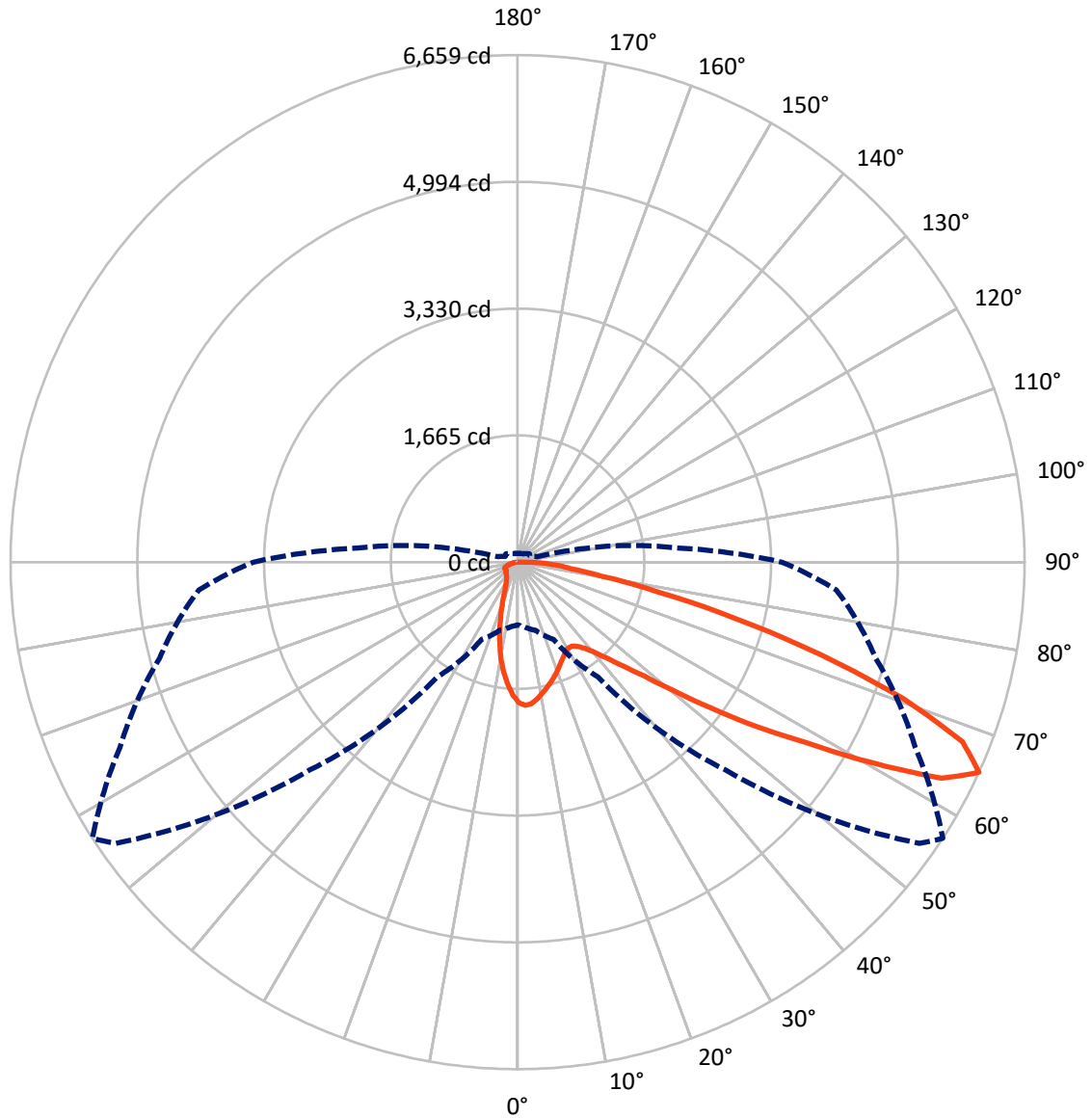
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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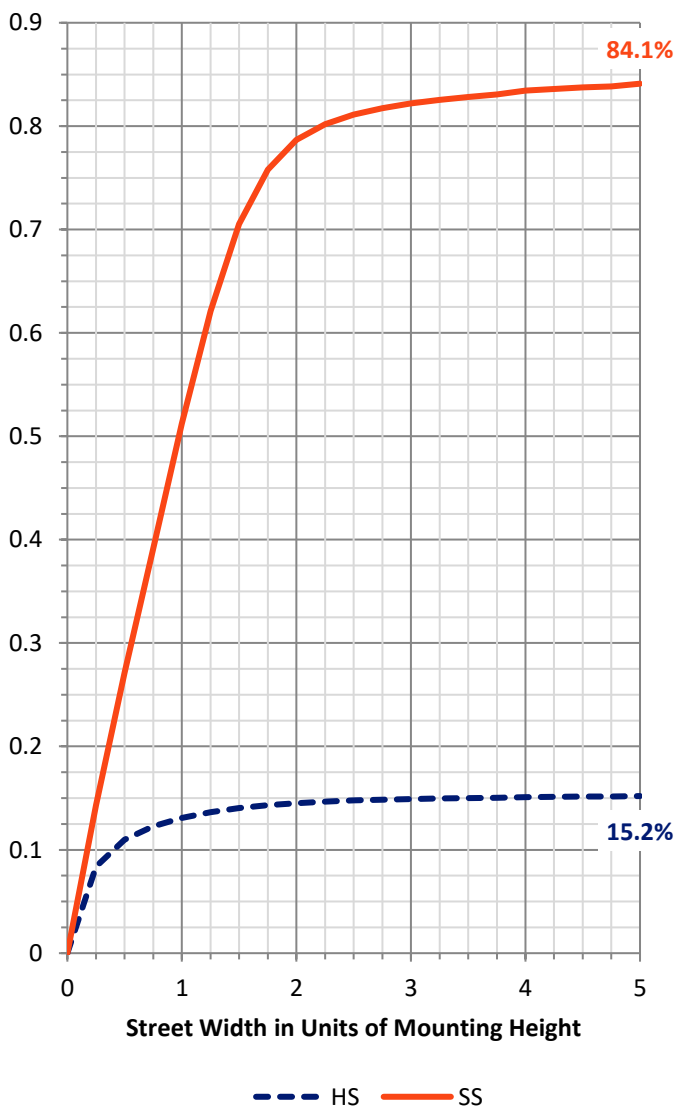
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1029.1	0.0	1029.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5681.1	0.0	5681.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	6710.2	0.0	6710.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	2.3
10°-20°	332.6	5.0
20°-30°	430.0	6.4
30°-40°	578.6	8.6
40°-50°	922.6	13.7
50°-60°	1629.5	24.3
60°-70°	1792.7	26.7
70°-80°	749.9	11.2
80°-90°	119.9	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°	6710.2	100.0
0°-180°	6710.2	100.0

Coefficient of Utilization



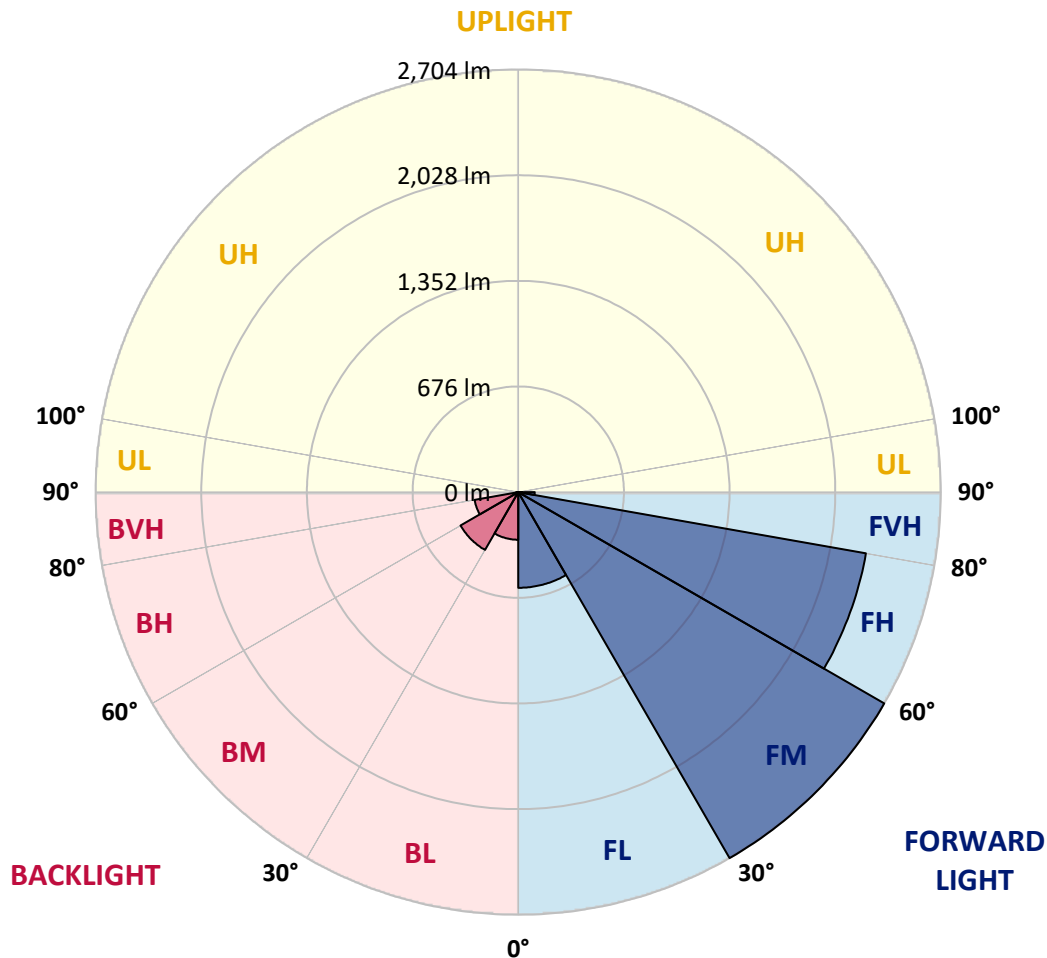
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.3	9.1			
FM (30°-60°)	2704.2	40.3			
FH (60°-80°)	2258.8	33.7			G2/5000
FVH (80°-90°)	105.8	1.6			G2/225
BL (0°-30°)	304.8	4.5	B1/500		
BM (30°-60°)	426.5	6.4	B1/1000		
BH (60°-80°)	283.7	4.2	B1/500		G1/500
BVH (80°-90°)	14.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1895.0	1898.1	1898.1	1904.1	1883.7	1893.5	1892.0	1883.0	1886.0	1870.1	1854.3
5°	1841.4	1839.2	1851.2	1852.8	1868.6	1873.1	1876.9	1870.9	1872.4	1837.7	1822.6
7.5°	1704.0	1703.3	1723.7	1741.0	1774.2	1805.2	1825.6	1819.5	1827.8	1805.9	1770.5
10°	1540.9	1558.3	1579.4	1596.8	1658.0	1697.2	1750.1	1755.4	1787.1	1781.8	1717.6
12.5°	1418.6	1426.2	1442.0	1491.9	1547.7	1612.7	1688.2	1695.0	1725.9	1741.0	1685.1
15°	1318.2	1325.0	1345.4	1382.4	1445.1	1522.1	1618.0	1635.3	1697.2	1702.5	1642.9
17.5°	1245.0	1250.3	1263.9	1300.9	1352.2	1451.1	1541.7	1572.7	1654.2	1679.9	1599.1
20°	1216.3	1205.0	1212.5	1235.9	1287.3	1363.5	1480.5	1507.7	1611.9	1662.5	1557.6
22.5°	1203.5	1193.6	1198.2	1196.7	1237.4	1291.8	1414.9	1443.5	1571.9	1642.1	1520.6
25°	1213.3	1213.3	1208.7	1205.0	1209.5	1245.0	1343.9	1388.4	1518.3	1624.7	1482.8
27.5°	1266.1	1245.7	1248.0	1232.2	1227.6	1227.6	1312.2	1338.6	1500.9	1614.9	1451.9
30°	1300.1	1309.9	1310.7	1287.3	1263.9	1221.6	1282.7	1308.4	1486.6	1627.0	1433.7
32.5°	1386.9	1382.4	1369.6	1365.0	1330.3	1282.7	1297.1	1314.4	1478.3	1654.2	1439.0
35°	1473.7	1471.5	1472.2	1470.0	1433.7	1363.5	1335.6	1359.0	1493.4	1701.8	1457.1
37.5°	1563.6	1569.6	1595.3	1595.3	1556.8	1480.5	1443.5	1436.8	1548.5	1779.5	1500.2
40°	1653.4	1668.5	1701.0	1752.3	1698.0	1627.0	1567.4	1556.8	1614.9	1883.7	1603.6
42.5°	1739.5	1764.4	1828.6	1904.8	1886.7	1815.8	1736.5	1724.4	1751.6	2038.5	1747.8
45°	1849.7	1870.9	1972.0	2089.1	2114.0	2051.3	1958.5	1948.6	1947.1	2265.0	1946.4
47.5°	2017.3	2040.0	2141.2	2258.9	2336.0	2345.8	2241.6	2231.0	2194.8	2570.8	2237.0
50°	2227.2	2264.2	2349.5	2486.9	2598.7	2703.6	2674.2	2643.2	2572.3	2926.4	2605.5
52.5°	2380.5	2425.8	2541.3	2717.2	2914.3	3081.1	3186.8	3186.8	3023.8	3316.7	3048.7
55°	2421.3	2448.4	2594.2	2848.6	3186.1	3608.1	3829.3	3812.7	3561.3	3727.4	3564.3
57.5°	2258.9	2294.4	2471.1	2737.6	3328.8	4101.1	4467.3	4471.1	4148.7	4204.6	4073.2
60°	1812.0	1823.3	2031.7	2388.0	3191.4	4498.3	5338.6	5352.9	4816.9	4629.6	4332.2
62.5°	1252.5	1288.8	1445.8	1758.4	2644.0	4453.7	6178.9	6249.8	5352.2	4853.9	4372.9
65°	824.5	846.3	930.2	1120.4	1840.7	3860.3	6440.1	6659.0	5761.4	4866.7	4202.3
67.5°	598.0	601.7	626.6	724.8	1106.1	2776.1	5993.9	6302.7	5914.6	4759.5	3802.1
70°	483.2	486.2	495.3	557.9	714.2	1737.2	4888.6	5372.5	5454.8	4251.4	3062.3
72.5°	392.6	396.4	407.7	466.6	588.9	966.4	3574.9	4164.5	4437.1	3145.3	2035.5
75°	308.8	311.8	339.0	397.1	553.4	663.6	2371.4	2949.0	2986.0	1838.4	952.8
77.5°	211.4	216.7	249.9	336.7	520.9	580.6	1478.3	1889.0	1695.0	719.5	327.7
80°	134.4	141.9	161.6	255.2	460.5	554.2	919.6	1128.0	742.2	246.1	157.8
82.5°	79.3	86.8	106.5	165.3	361.6	514.2	647.8	705.9	348.1	126.1	95.1
85°	43.8	49.1	64.2	99.7	212.2	456.8	518.7	506.6	199.3	67.2	59.6
87.5°	14.3	16.6	23.4	40.0	87.6	215.2	311.1	292.2	103.4	31.0	23.4
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°	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2	1845.2
2.5°	1843.7	1841.4	1807.5	1781.8	1738.0	1701.8	1687.4	1667.8	1667.0	1652.7	1648.9
5°	1799.2	1775.7	1723.7	1673.8	1596.1	1544.0	1496.4	1463.2	1449.6	1420.1	1413.3
7.5°	1741.8	1710.8	1630.8	1537.2	1445.8	1364.3	1290.3	1216.3	1174.8	1160.4	1144.6
10°	1682.1	1627.8	1509.2	1404.3	1276.7	1151.4	1035.1	930.9	874.3	834.3	816.9
12.5°	1634.6	1562.1	1411.1	1254.0	1085.7	918.1	782.9	673.5	609.3	579.1	565.5
15°	1581.0	1485.1	1303.9	1105.3	895.4	705.2	573.0	487.0	461.3	447.0	444.7
17.5°	1524.3	1413.3	1187.6	958.8	709.7	530.8	445.4	410.7	399.4	393.4	390.3
20°	1471.5	1349.2	1068.3	795.8	555.7	425.8	385.8	367.7	366.9	369.9	369.2
22.5°	1396.7	1265.4	950.5	644.8	443.9	370.7	345.0	340.5	345.0	348.8	350.3
25°	1354.5	1196.7	819.2	511.9	366.9	329.2	320.9	319.4	326.2	330.7	329.9
27.5°	1310.7	1125.7	696.9	410.0	321.6	299.7	298.2	299.7	306.5	313.3	312.6
30°	1276.7	1069.1	582.1	342.8	286.9	278.6	277.1	278.6	282.4	283.1	283.1
32.5°	1248.8	1001.9	484.7	297.5	265.8	259.0	260.5	259.7	260.5	261.2	262.0
35°	1232.2	961.9	404.7	269.5	248.4	243.1	242.4	240.1	240.8	241.6	240.8
37.5°	1267.6	942.2	341.3	249.9	236.3	231.8	230.3	228.8	226.5	226.5	226.5
40°	1321.2	931.7	302.8	237.1	227.3	222.0	217.4	215.9	215.9	216.7	217.4
42.5°	1427.7	949.0	276.3	227.3	215.9	209.9	205.4	206.1	208.4	210.6	209.1
45°	1581.7	1001.9	264.2	219.7	209.1	200.8	197.8	197.1	199.3	203.1	206.1
47.5°	1783.3	1084.2	259.7	212.9	204.6	193.3	189.5	191.8	194.8	200.1	197.8
50°	2113.2	1269.1	263.5	206.9	197.8	189.5	185.0	182.7	185.0	188.7	190.3
52.5°	2544.3	1605.1	277.8	203.8	193.3	186.5	178.9	175.2	177.4	180.4	180.4
55°	3060.0	2064.2	317.9	200.1	185.7	182.0	173.6	166.1	167.6	167.6	166.9
57.5°	3514.5	2410.7	365.4	194.8	181.2	175.9	165.3	156.3	154.8	155.5	156.3
60°	3718.3	2502.8	388.1	193.3	181.2	168.4	154.0	145.0	142.7	141.2	141.2
62.5°	3682.9	2343.5	342.0	186.5	185.7	162.3	143.4	133.6	130.6	127.6	128.3
65°	3468.4	2116.2	269.5	177.4	186.5	158.5	132.9	123.1	117.8	114.0	113.2
67.5°	3076.6	1806.7	213.7	170.6	178.9	151.8	123.8	112.5	108.0	104.2	102.7
70°	2406.9	1416.4	185.7	161.6	160.8	135.1	113.2	103.4	96.6	92.1	92.1
72.5°	1560.6	895.4	159.3	143.4	138.9	113.2	98.1	92.1	86.8	83.0	83.0
75°	706.7	416.0	128.3	120.0	113.2	90.6	83.0	80.0	75.5	71.7	71.7
77.5°	253.7	177.4	95.9	94.4	84.6	70.2	67.2	64.9	61.9	58.1	58.1
80°	141.9	112.5	71.7	68.7	58.9	52.1	48.3	48.3	46.8	44.5	43.8
82.5°	89.8	73.2	52.8	46.1	38.5	34.7	33.2	32.5	31.7	28.7	27.9
85°	56.6	49.8	34.7	27.2	22.6	17.4	16.6	15.9	14.3	12.8	12.8
87.5°	25.7	28.7	13.6	8.3	6.0	3.8	2.3	0.8	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)