

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: P480647

Luminaire Tested: **IFLD-S-SA2A-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480647
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

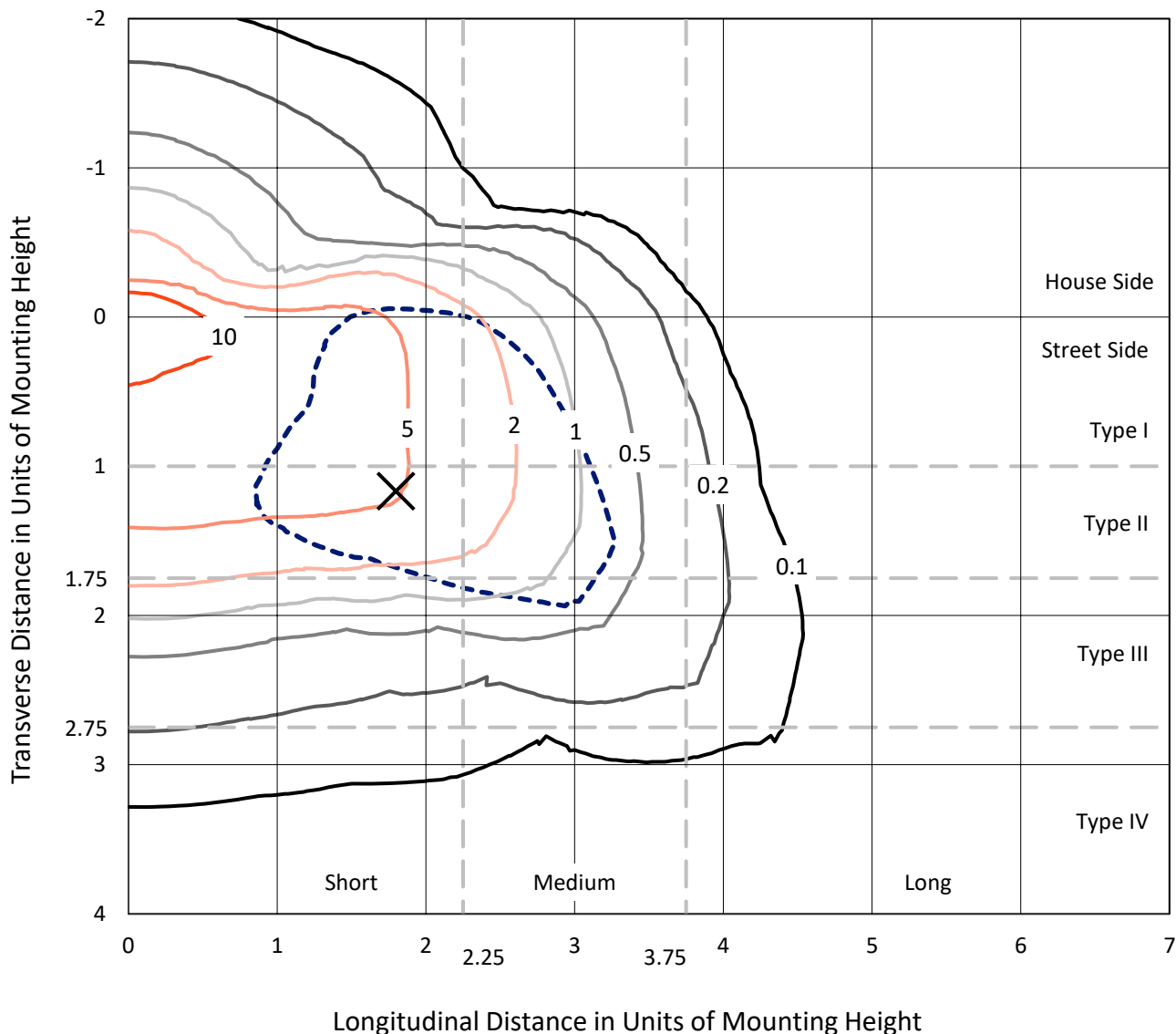
Lumens per Lamp: N/A
Luminaire Lumens: 7238.5 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

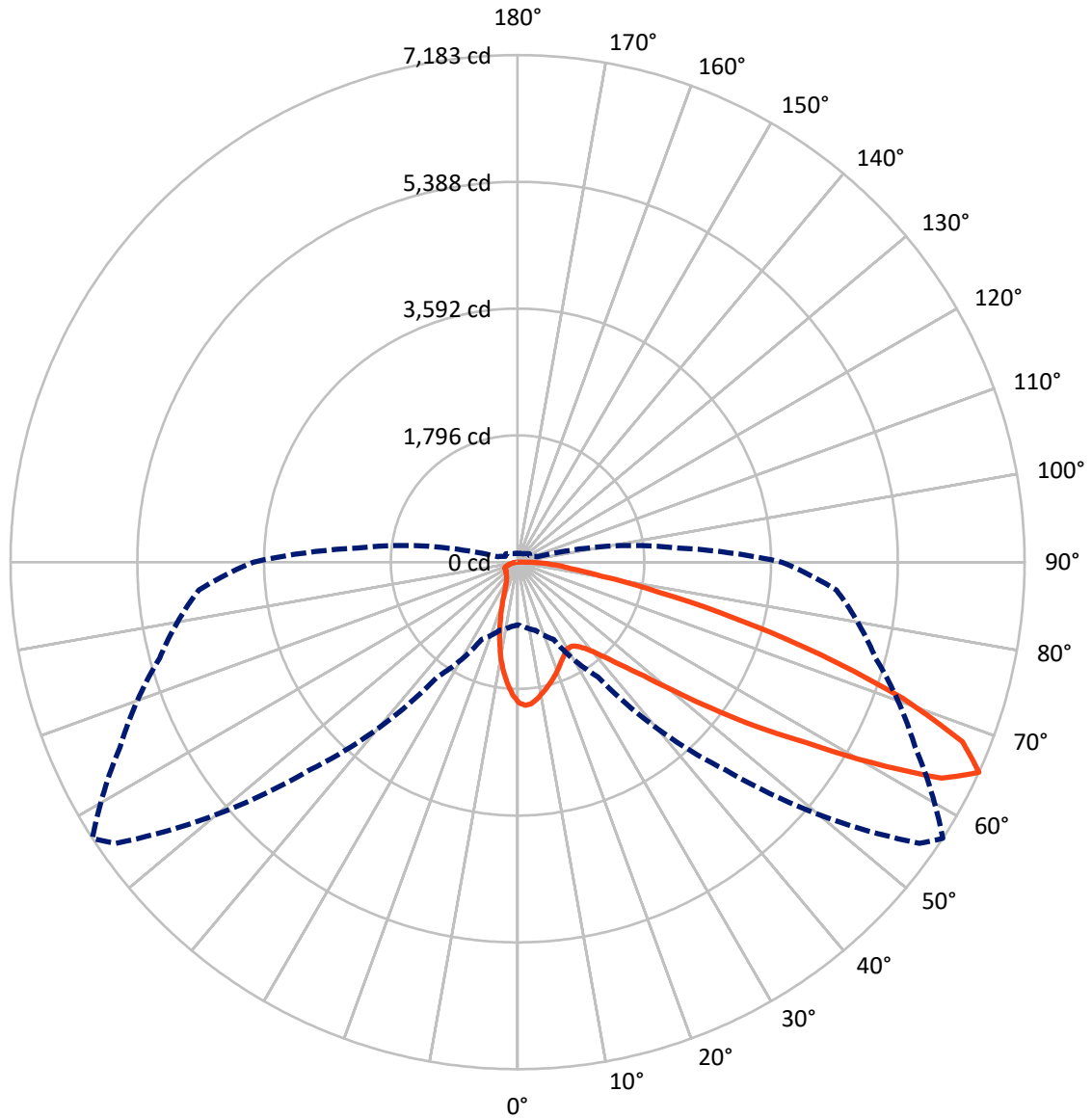
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 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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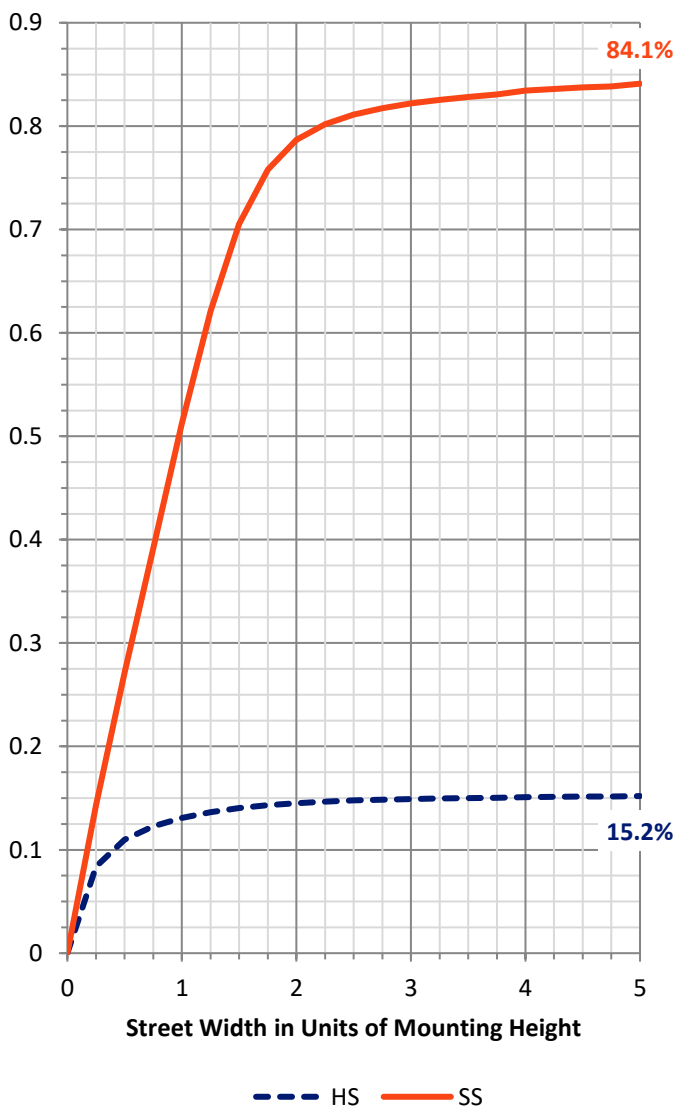
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.1	0.0	1110.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6128.4	0.0	6128.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	7238.5	0.0	7238.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	2.3
10°-20°	358.7	5.0
20°-30°	463.8	6.4
30°-40°	624.1	8.6
40°-50°	995.2	13.7
50°-60°	1757.8	24.3
60°-70°	1933.8	26.7
70°-80°	809.0	11.2
80°-90°	129.3	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°	7238.5	100.0
0°-180°	7238.5	100.0

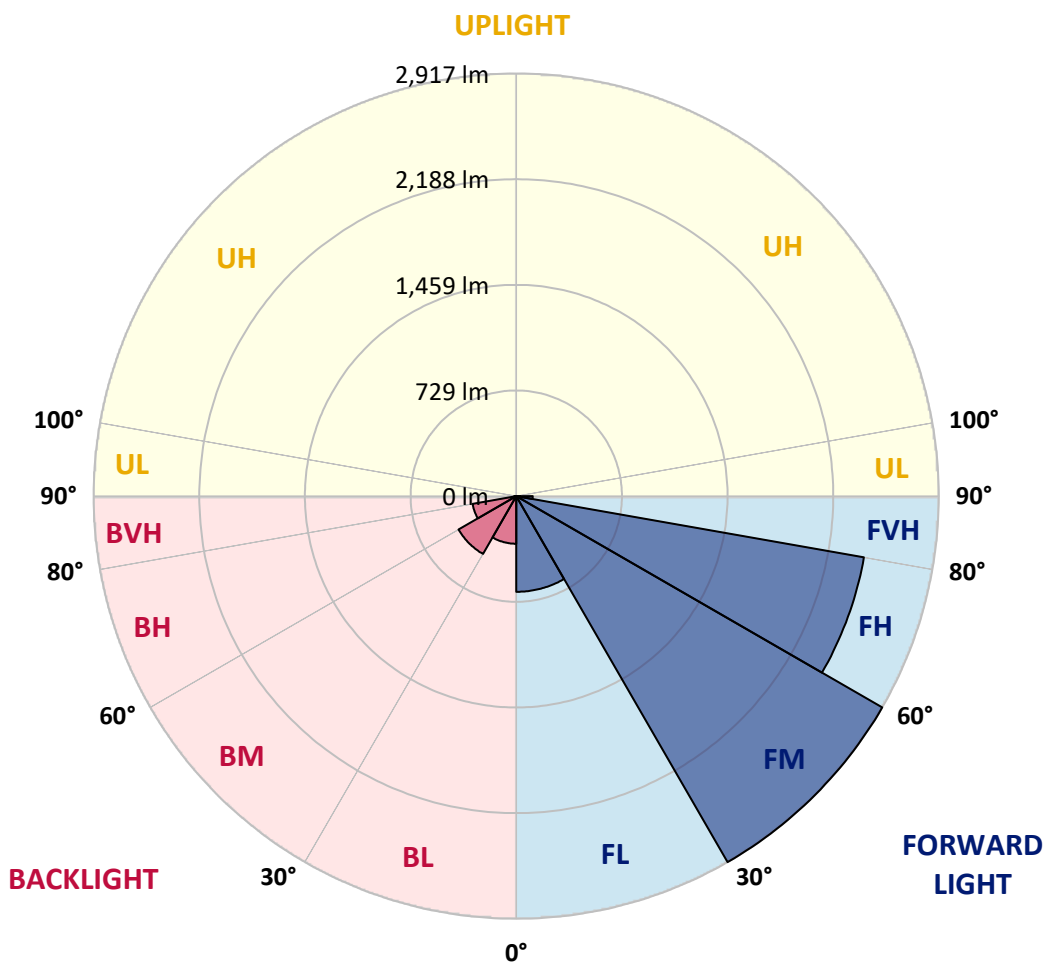


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.5	9.1			
FM (30°-60°)	2917.1	40.3			
FH (60°-80°)	2436.7	33.7			G2/5000
FVH (80°-90°)	114.1	1.6			G2/225
BL (0°-30°)	328.8	4.5	B1/500		
BM (30°-60°)	460.1	6.4	B1/1000		
BH (60°-80°)	306.1	4.2	B1/500		G1/500
BVH (80°-90°)	15.2	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°	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	2044.3	2047.5	2047.5	2054.0	2032.0	2042.6	2041.0	2031.2	2034.5	2017.4	2000.3
5°	1986.4	1984.0	1997.0	1998.6	2015.7	2020.6	2024.7	2018.2	2019.8	1982.4	1966.1
7.5°	1838.2	1837.4	1859.4	1878.1	1913.9	1947.3	1969.3	1962.8	1971.8	1948.1	1909.9
10°	1662.3	1681.0	1703.8	1722.5	1788.5	1830.9	1887.9	1893.6	1927.8	1922.1	1852.9
12.5°	1530.3	1538.5	1555.6	1609.3	1669.6	1739.6	1821.1	1828.4	1861.8	1878.1	1817.8
15°	1422.0	1429.3	1451.3	1491.2	1558.8	1641.9	1745.3	1764.1	1830.9	1836.6	1772.2
17.5°	1343.0	1348.7	1363.4	1403.3	1458.7	1565.4	1663.1	1696.5	1784.4	1812.1	1725.0
20°	1312.1	1299.8	1308.0	1333.2	1388.6	1470.9	1597.1	1626.4	1738.8	1793.4	1680.2
22.5°	1298.2	1287.6	1292.5	1290.9	1334.9	1393.5	1526.3	1557.2	1695.7	1771.4	1640.3
25°	1308.8	1308.8	1303.9	1299.8	1304.7	1343.0	1449.7	1497.8	1637.8	1752.7	1599.6
27.5°	1365.8	1343.8	1346.3	1329.2	1324.3	1324.3	1415.5	1444.0	1619.1	1742.1	1566.2
30°	1402.5	1413.1	1413.9	1388.6	1363.4	1317.8	1383.7	1411.4	1603.6	1755.1	1546.6
32.5°	1496.1	1491.2	1477.4	1472.5	1435.0	1383.7	1399.2	1417.9	1594.7	1784.4	1552.3
35°	1589.8	1587.3	1588.2	1585.7	1546.6	1470.9	1440.7	1466.0	1611.0	1835.8	1571.9
37.5°	1686.7	1693.2	1720.9	1720.9	1679.4	1597.1	1557.2	1549.9	1670.4	1919.6	1618.3
40°	1783.6	1799.9	1834.9	1890.3	1831.7	1755.1	1690.8	1679.4	1742.1	2032.0	1729.9
42.5°	1876.5	1903.4	1972.6	2054.8	2035.3	1958.7	1873.2	1860.2	1889.5	2199.0	1885.4
45°	1995.4	2018.2	2127.3	2253.6	2280.4	2212.8	2112.7	2102.1	2100.4	2443.3	2099.6
47.5°	2176.2	2200.6	2309.8	2436.8	2519.9	2530.5	2418.1	2406.7	2367.6	2773.2	2413.2
50°	2402.6	2442.5	2534.5	2682.8	2803.3	2916.5	2884.8	2851.4	2774.8	3156.8	2810.6
52.5°	2567.9	2616.8	2741.4	2931.2	3143.7	3323.7	3437.8	3437.8	3261.8	3577.8	3288.7
55°	2611.9	2641.2	2798.4	3072.9	3436.9	3892.2	4130.9	4112.9	3841.7	4020.9	3845.0
57.5°	2436.8	2475.1	2665.7	2953.2	3590.9	4424.1	4819.1	4823.1	4475.4	4535.6	4393.9
60°	1954.7	1966.9	2191.7	2576.1	3442.6	4852.4	5758.9	5774.4	5196.1	4994.2	4673.3
62.5°	1351.2	1390.3	1559.7	1896.8	2852.2	4804.4	6665.4	6742.0	5773.6	5236.0	4717.2
65°	889.4	913.0	1003.4	1208.6	1985.6	4164.2	6947.2	7183.4	6215.0	5249.9	4533.2
67.5°	645.0	649.1	676.0	781.9	1193.2	2994.7	6465.9	6799.0	6380.3	5134.2	4101.5
70°	521.2	524.5	534.3	601.9	770.5	1874.0	5273.5	5795.6	5884.3	4586.1	3303.4
72.5°	423.5	427.6	439.8	503.3	635.3	1042.5	3856.4	4492.5	4786.5	3393.0	2195.7
75°	333.1	336.4	365.7	428.4	597.0	715.9	2558.2	3181.2	3221.1	1983.2	1027.8
77.5°	228.0	233.7	269.6	363.2	562.0	626.3	1594.7	2037.7	1828.4	776.2	353.5
80°	145.0	153.1	174.3	275.3	496.8	597.8	992.0	1216.8	800.6	265.5	170.2
82.5°	85.5	93.7	114.8	178.4	390.1	554.6	698.8	761.5	375.5	136.0	102.6
85°	47.2	52.9	69.2	107.5	228.9	492.7	559.5	546.5	215.0	72.5	64.3
87.5°	15.5	17.9	25.2	43.2	94.5	232.1	335.6	315.2	111.6	33.4	25.2
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°	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5	1990.5
2.5°	1988.9	1986.4	1949.8	1922.1	1874.8	1835.8	1820.3	1799.1	1798.3	1782.8	1778.7
5°	1940.8	1915.6	1859.4	1805.6	1721.7	1665.5	1614.2	1578.4	1563.7	1532.0	1524.6
7.5°	1878.9	1845.5	1759.2	1658.2	1559.7	1471.7	1391.9	1312.1	1267.3	1251.8	1234.7
10°	1814.6	1755.9	1628.1	1514.9	1377.2	1242.0	1116.6	1004.2	943.1	900.0	881.2
12.5°	1763.3	1685.1	1522.2	1352.8	1171.2	990.4	844.6	726.5	657.3	624.7	610.0
15°	1705.4	1602.0	1406.5	1192.3	965.9	760.7	618.2	525.3	497.6	482.1	479.7
17.5°	1644.4	1524.6	1281.1	1034.3	765.6	572.6	480.5	443.1	430.8	424.3	421.1
20°	1587.3	1455.4	1152.4	858.4	599.4	459.3	416.2	396.6	395.8	399.1	398.3
22.5°	1506.7	1365.0	1025.4	695.5	478.9	399.9	372.2	367.3	372.2	376.3	377.9
25°	1461.1	1290.9	883.7	552.2	395.8	355.1	346.1	344.5	351.8	356.7	355.9
27.5°	1413.9	1214.3	751.7	442.2	347.0	323.3	321.7	323.3	330.7	338.0	337.2
30°	1377.2	1153.3	627.9	369.8	309.5	300.5	298.9	300.5	304.6	305.4	305.4
32.5°	1347.1	1080.8	522.9	320.9	286.7	279.4	281.0	280.2	281.0	281.8	282.6
35°	1329.2	1037.6	436.5	290.8	268.0	262.3	261.4	259.0	259.8	260.6	259.8
37.5°	1367.4	1016.4	368.1	269.6	254.9	250.0	248.4	246.8	244.3	244.3	244.3
40°	1425.3	1005.0	326.6	255.7	245.1	239.4	234.6	232.9	232.9	233.7	234.6
42.5°	1540.1	1023.8	298.1	245.1	232.9	226.4	221.5	222.3	224.8	227.2	225.6
45°	1706.3	1080.8	285.1	237.0	225.6	216.6	213.4	212.6	215.0	219.1	222.3
47.5°	1923.7	1169.5	280.2	229.7	220.7	208.5	204.4	206.9	210.1	215.8	213.4
50°	2279.6	1369.1	284.2	223.2	213.4	204.4	199.5	197.1	199.5	203.6	205.2
52.5°	2744.7	1731.5	299.7	219.9	208.5	201.2	193.0	189.0	191.4	194.7	194.7
55°	3300.9	2226.7	342.9	215.8	200.4	196.3	187.3	179.2	180.8	180.8	180.0
57.5°	3791.2	2600.5	394.2	210.1	195.5	189.8	178.4	168.6	167.0	167.8	168.6
60°	4011.1	2699.9	418.6	208.5	195.5	181.6	166.1	156.4	153.9	152.3	152.3
62.5°	3972.8	2528.0	368.9	201.2	200.4	175.1	154.7	144.2	140.9	137.6	138.5
65°	3741.5	2282.9	290.8	191.4	201.2	171.0	143.3	132.8	127.1	123.0	122.2
67.5°	3318.9	1949.0	230.5	184.1	193.0	163.7	133.6	121.4	116.5	112.4	110.8
70°	2596.4	1527.9	200.4	174.3	173.5	145.8	122.2	111.6	104.2	99.4	99.4
72.5°	1683.5	965.9	171.8	154.7	149.9	122.2	105.9	99.4	93.7	89.6	89.6
75°	762.3	448.8	138.5	129.5	122.2	97.7	89.6	86.3	81.4	77.4	77.4
77.5°	273.7	191.4	103.4	101.8	91.2	75.7	72.5	70.0	66.8	62.7	62.7
80°	153.1	121.4	77.4	74.1	63.5	56.2	52.1	52.1	50.5	48.1	47.2
82.5°	96.9	79.0	57.0	49.7	41.5	37.5	35.8	35.0	34.2	30.9	30.1
85°	61.1	53.8	37.5	29.3	24.4	18.7	17.9	17.1	15.5	13.8	13.8
87.5°	27.7	30.9	14.7	9.0	6.5	4.1	2.4	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)