

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: P480842

Luminaire Tested: **IFLD-S-SA2A-735-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480842  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

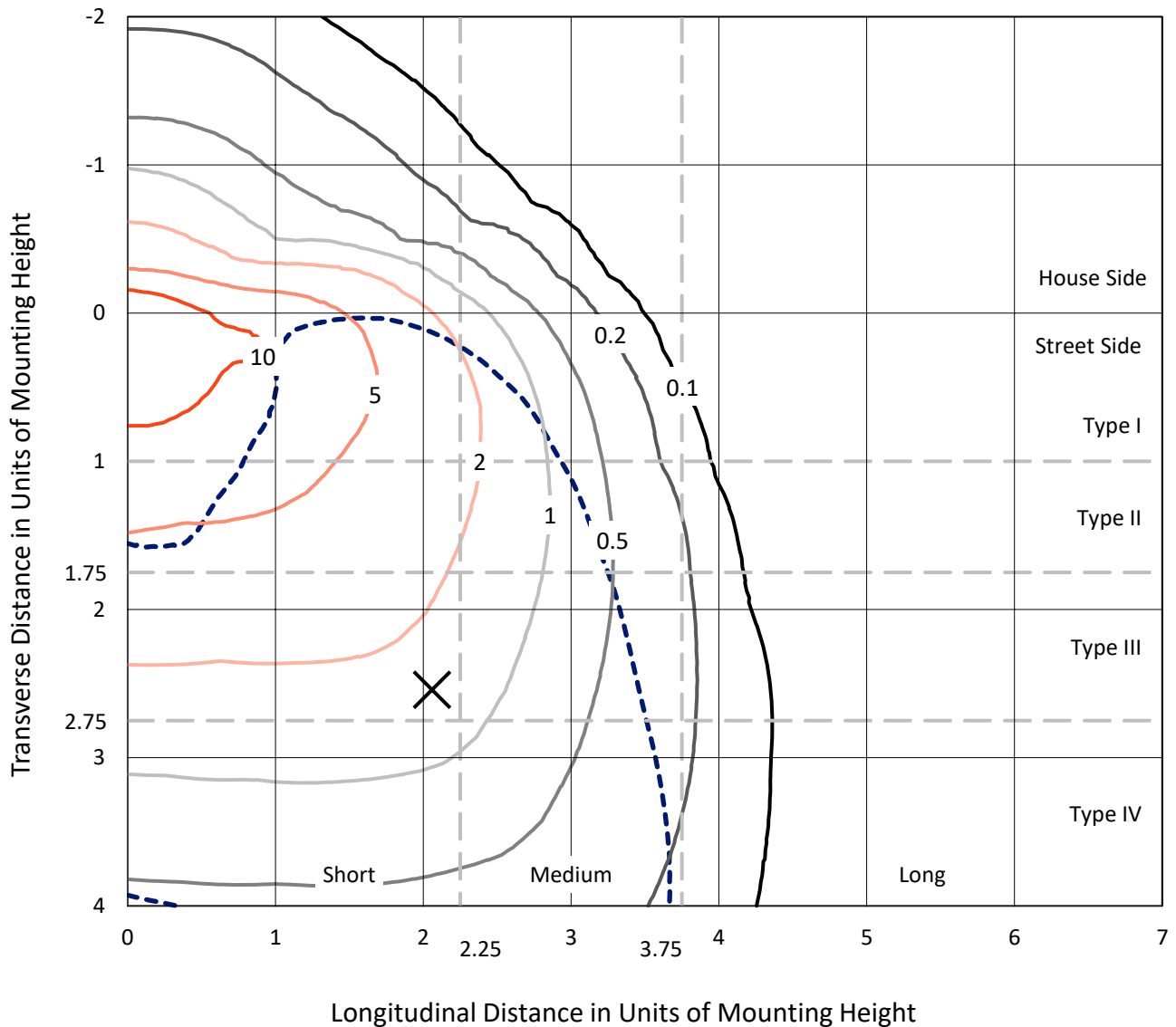
Lumens per Lamp: N/A  
Luminaire Lumens: 8807.8 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

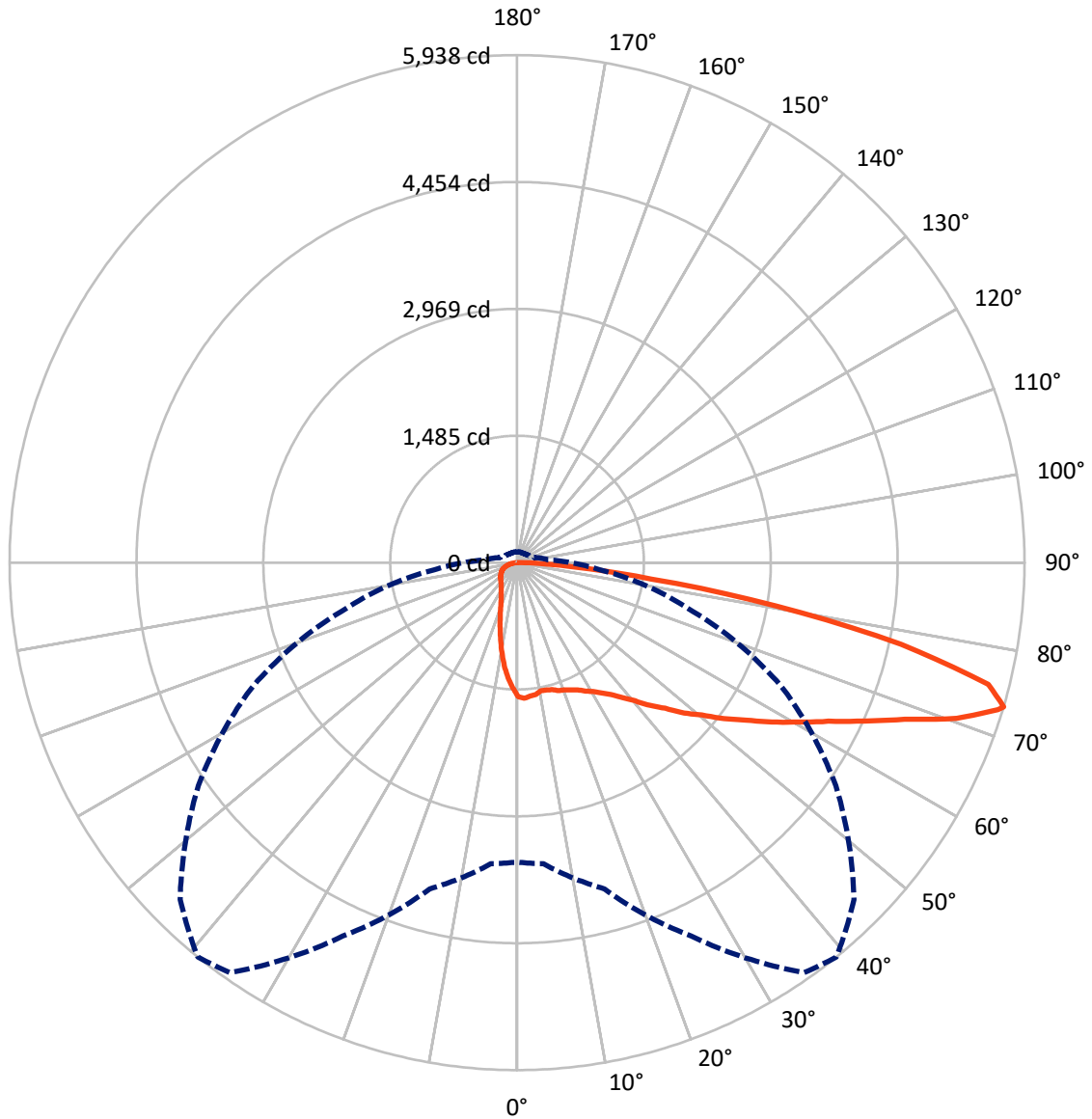
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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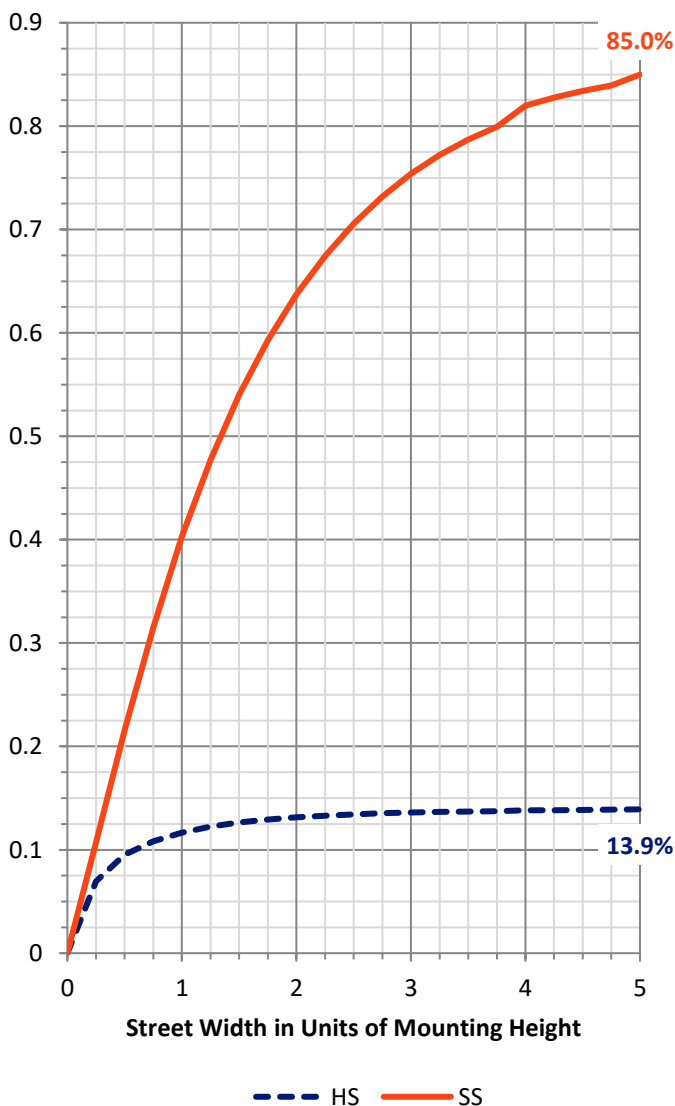
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1238.1	0.0	1238.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	7569.7	0.0	7569.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	8807.8	0.0	8807.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.1	1.5
10°-20°	346.0	3.9
20°-30°	528.7	6.0
30°-40°	770.9	8.8
40°-50°	1164.9	13.2
50°-60°	1686.8	19.2
60°-70°	2143.2	24.3
70°-80°	1737.4	19.7
80°-90°	294.0	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°	8807.8	100.0
0°-180°	8807.8	100.0

**Coefficient of Utilization**



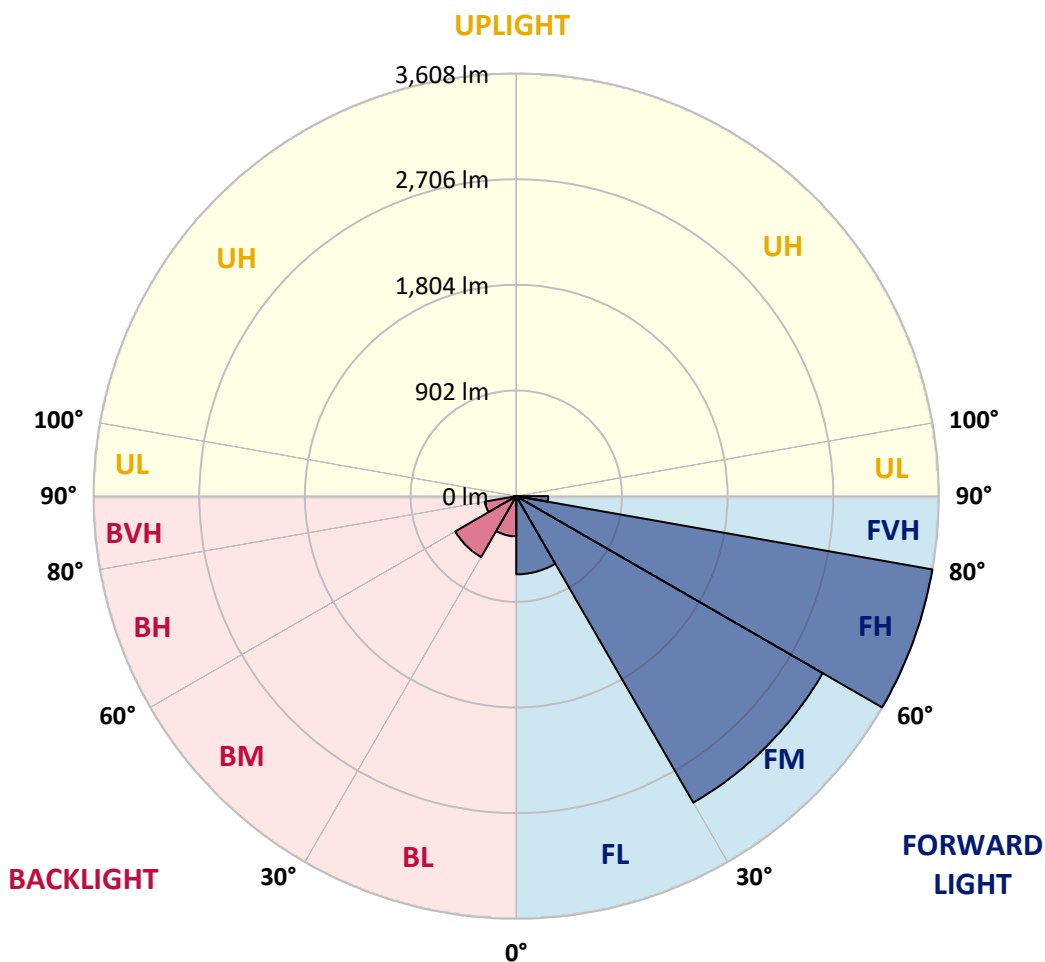
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.4	7.6			
FM (30°-60°)	3021.6	34.3			
FH (60°-80°)	3608.2	41.0			G2/5000
FVH (80°-90°)	272.4	3.1			G3/500
BL (0°-30°)	343.4	3.9	B1/500		
BM (30°-60°)	600.9	6.8	B1/1000		
BH (60°-80°)	272.3	3.1	B1/500		G1/500
BVH (80°-90°)	21.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8
2.5°	1605.3	1588.5	1591.5	1585.6	1591.5	1589.5	1586.6	1571.8	1586.6	1571.8	1567.8
5°	1583.6	1583.6	1593.5	1578.7	1580.7	1570.8	1580.7	1569.8	1560.0	1535.3	1528.4
7.5°	1576.7	1575.7	1576.7	1556.0	1565.9	1560.0	1550.1	1538.3	1518.6	1502.8	1480.1
10°	1529.4	1539.3	1528.4	1534.3	1542.2	1524.5	1523.5	1520.5	1511.7	1491.0	1477.2
12.5°	1503.8	1520.5	1526.5	1521.5	1528.4	1530.4	1524.5	1520.5	1509.7	1495.9	1456.5
15°	1514.6	1494.9	1511.7	1544.2	1537.3	1542.2	1543.2	1539.3	1534.3	1508.7	1483.1
17.5°	1517.6	1505.8	1541.2	1548.1	1557.0	1574.7	1562.9	1561.9	1543.2	1525.5	1488.0
20°	1524.5	1519.6	1548.1	1584.6	1585.6	1588.5	1594.4	1579.7	1569.8	1539.3	1482.1
22.5°	1550.1	1566.9	1593.5	1609.2	1618.1	1620.1	1620.1	1590.5	1579.7	1555.0	1509.7
25°	1627.0	1609.2	1646.7	1665.4	1652.6	1649.6	1642.7	1616.1	1604.3	1582.6	1522.5
27.5°	1683.1	1682.2	1703.8	1729.5	1695.0	1701.9	1677.2	1669.3	1642.7	1630.9	1545.2
30°	1760.0	1781.7	1780.7	1788.6	1743.3	1751.1	1719.6	1704.8	1690.0	1696.9	1612.2
32.5°	1858.5	1850.7	1863.5	1857.6	1812.2	1819.1	1781.7	1759.0	1763.9	1784.6	1703.8
35°	1921.6	1913.7	1918.7	1918.7	1904.9	1897.0	1881.2	1851.6	1875.3	1913.7	1806.3
37.5°	1989.6	1999.5	2028.0	2022.1	2004.4	2004.4	2002.4	1981.7	2012.3	2106.9	1969.9
40°	2049.7	2076.3	2094.1	2105.9	2126.6	2126.6	2143.3	2131.5	2186.7	2338.5	2169.9
42.5°	2112.8	2113.8	2210.4	2219.2	2265.5	2285.2	2298.1	2307.9	2411.4	2580.9	2383.8
45°	2193.6	2198.5	2283.3	2351.3	2423.2	2430.1	2478.4	2510.9	2638.0	2846.0	2616.4
47.5°	2300.0	2294.1	2384.8	2493.2	2582.8	2630.2	2688.3	2723.8	2880.5	3133.7	2870.6
50°	2440.0	2422.2	2474.5	2644.9	2750.4	2802.6	2906.1	2965.2	3148.5	3408.7	3045.0
52.5°	2610.4	2580.9	2622.3	2808.5	2926.8	3032.2	3130.8	3196.8	3388.0	3621.5	3174.1
55°	2790.8	2729.7	2741.5	2982.0	3152.4	3252.0	3387.0	3456.0	3651.1	3812.7	3303.2
57.5°	2969.1	2930.7	2907.1	3148.5	3421.5	3517.0	3641.2	3730.9	3896.4	3982.2	3412.6
60°	3118.9	3109.1	3070.6	3406.7	3706.3	3788.0	3918.1	3973.3	4098.5	4138.9	3414.6
62.5°	3242.1	3208.6	3269.7	3614.6	3996.0	4088.6	4231.5	4236.4	4325.1	4236.4	3314.0
65°	3338.7	3340.7	3438.2	3865.9	4331.0	4468.0	4583.3	4570.5	4513.3	4178.3	3076.6
67.5°	3426.4	3463.8	3606.7	4141.8	4761.7	4890.8	5018.9	4849.4	4564.6	3906.3	2612.4
70°	3495.4	3532.8	3834.4	4477.9	5269.2	5458.4	5487.0	4959.7	4329.1	3309.1	1970.9
72.5°	3487.5	3555.5	3963.5	4745.9	5719.5	5883.1	5652.5	4649.3	3606.7	2306.9	1150.0
73°	3504.2	3537.7	3952.6	4820.8	5856.5	5938.3	5575.6	4551.8	3401.8	2069.4	972.6
75°	3181.0	3294.3	3756.5	4698.6	5709.7	5694.9	5134.2	3793.0	2418.3	1086.9	471.0
77.5°	2353.2	2425.2	2960.3	3863.9	4686.8	4592.2	3872.8	2424.2	1148.0	403.0	254.2
80°	1150.0	1206.2	1568.8	2231.0	3064.7	3072.6	2403.5	1261.4	491.7	227.6	173.4
82.5°	574.5	608.0	753.9	980.5	1507.7	1579.7	1219.0	717.4	304.5	129.1	98.5
85°	375.5	399.1	464.1	479.9	639.6	675.0	567.6	559.7	198.1	70.0	79.8
87.5°	249.3	253.3	284.8	242.4	256.2	246.4	274.0	352.8	58.1	29.6	21.7
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°	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8	1567.8
2.5°	1562.9	1549.1	1534.3	1513.6	1498.9	1476.2	1455.5	1446.6	1444.7	1445.6	1435.8
5°	1522.5	1502.8	1473.2	1430.9	1406.2	1368.8	1337.2	1320.5	1302.8	1305.7	1297.8
7.5°	1466.3	1444.7	1399.3	1350.1	1289.0	1235.7	1206.2	1164.8	1141.1	1123.4	1133.3
10°	1448.6	1411.2	1343.2	1275.2	1180.6	1110.6	1042.6	995.3	962.8	931.2	945.0
12.5°	1439.7	1402.3	1307.7	1207.2	1085.0	978.5	883.0	824.8	778.5	750.9	761.7
15°	1431.9	1385.5	1274.2	1132.3	995.3	855.4	748.0	671.1	626.7	600.1	603.1
17.5°	1442.7	1376.7	1224.9	1059.4	896.8	747.0	627.7	547.9	502.6	485.8	481.9
20°	1431.9	1366.8	1176.6	986.4	798.2	643.5	529.2	463.2	431.6	417.8	414.9
22.5°	1435.8	1343.2	1126.4	905.6	706.6	556.8	463.2	412.9	388.3	381.4	383.3
25°	1454.5	1329.4	1076.1	816.9	615.9	492.7	420.8	382.4	364.6	357.7	359.7
27.5°	1468.3	1341.2	1030.8	733.2	539.0	435.6	385.3	359.7	347.9	342.9	341.9
30°	1502.8	1348.1	986.4	658.3	476.0	398.1	360.7	340.0	332.1	329.1	328.2
32.5°	1554.0	1360.9	935.2	589.3	429.7	362.6	341.0	323.2	321.3	318.3	319.3
35°	1637.8	1405.2	878.0	530.2	385.3	339.0	320.3	308.4	308.4	308.4	311.4
37.5°	1758.0	1467.3	826.8	474.0	356.7	318.3	302.5	298.6	296.6	299.6	301.5
40°	1912.7	1542.2	785.4	429.7	332.1	304.5	290.7	288.7	287.7	286.8	288.7
42.5°	2082.2	1637.8	749.9	395.2	314.4	289.7	279.9	277.9	274.0	275.9	278.9
45°	2250.8	1756.1	718.4	367.6	302.5	281.8	268.0	267.1	265.1	264.1	269.0
47.5°	2438.0	1872.3	708.5	350.8	293.7	270.0	260.2	259.2	253.3	252.3	256.2
50°	2583.8	1958.1	719.4	342.9	280.9	261.1	254.2	249.3	244.4	239.5	239.5
52.5°	2684.3	2017.2	727.3	337.0	274.0	249.3	240.4	238.5	233.6	228.6	226.7
55°	2775.0	2052.7	729.2	338.0	267.1	235.5	229.6	228.6	225.7	217.8	215.8
57.5°	2805.6	2037.9	689.8	329.1	263.1	226.7	218.8	220.7	216.8	209.9	208.9
60°	2802.6	1935.4	600.1	317.3	254.2	216.8	206.9	212.9	212.9	205.0	204.0
62.5°	2632.1	1698.9	490.8	294.6	244.4	206.9	196.1	205.0	207.9	203.0	202.0
65°	2278.3	1383.6	409.9	272.0	229.6	196.1	185.3	195.1	200.0	198.1	197.1
67.5°	1885.2	1058.4	341.0	242.4	210.9	181.3	172.5	179.4	182.3	183.3	184.3
70°	1332.3	704.6	284.8	209.9	185.3	165.6	155.7	156.7	155.7	158.7	158.7
72.5°	724.3	406.0	231.6	178.4	159.6	143.9	137.0	132.0	132.0	131.1	131.1
73°	619.8	364.6	220.7	173.4	152.7	139.9	132.0	128.1	128.1	127.1	126.1
75°	347.9	267.1	189.2	148.8	132.0	122.2	116.3	110.4	109.4	109.4	109.4
77.5°	228.6	207.9	150.8	119.2	106.4	97.6	95.6	89.7	89.7	89.7	88.7
80°	171.5	163.6	116.3	90.7	81.8	74.9	72.9	69.0	68.0	64.1	65.0
82.5°	114.3	129.1	84.7	64.1	55.2	51.2	51.2	50.3	47.3	42.4	42.4
85°	90.7	105.4	61.1	39.4	32.5	27.6	28.6	27.6	26.6	21.7	20.7
87.5°	16.8	42.4	17.7	10.8	7.9	4.9	4.9	3.0	2.0	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)