

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: P476475

Luminaire Tested: **IFLD-S-SA2B-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476475  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

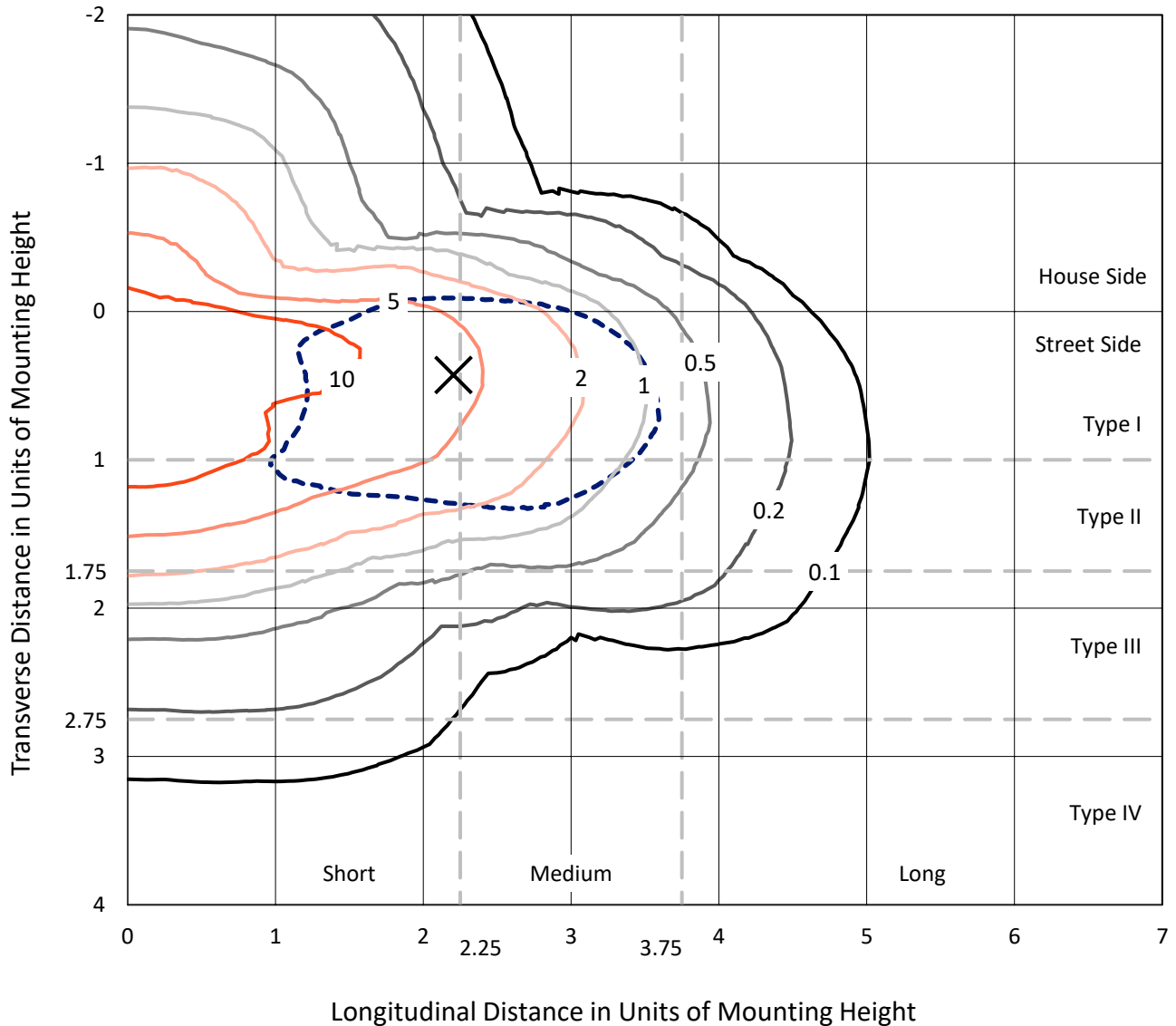
Lumens per Lamp: N/A  
Luminaire Lumens: 9537.2 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4  
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

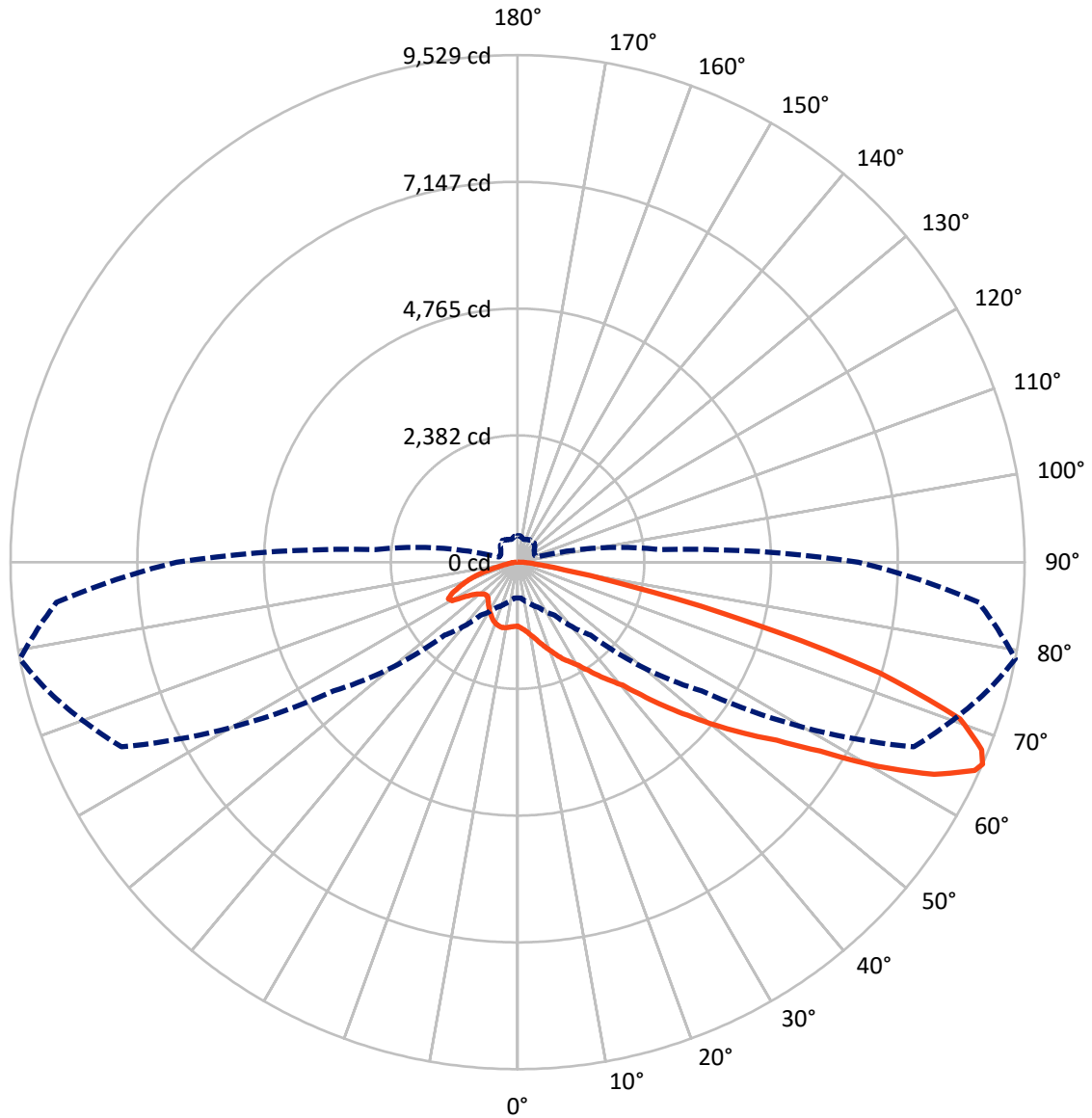
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P476475  
CATALOG NUMBER: IFLD-S-SA2B-727-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476475

CATALOG NUMBER: IFLD-S-SA2B-727-U-T2

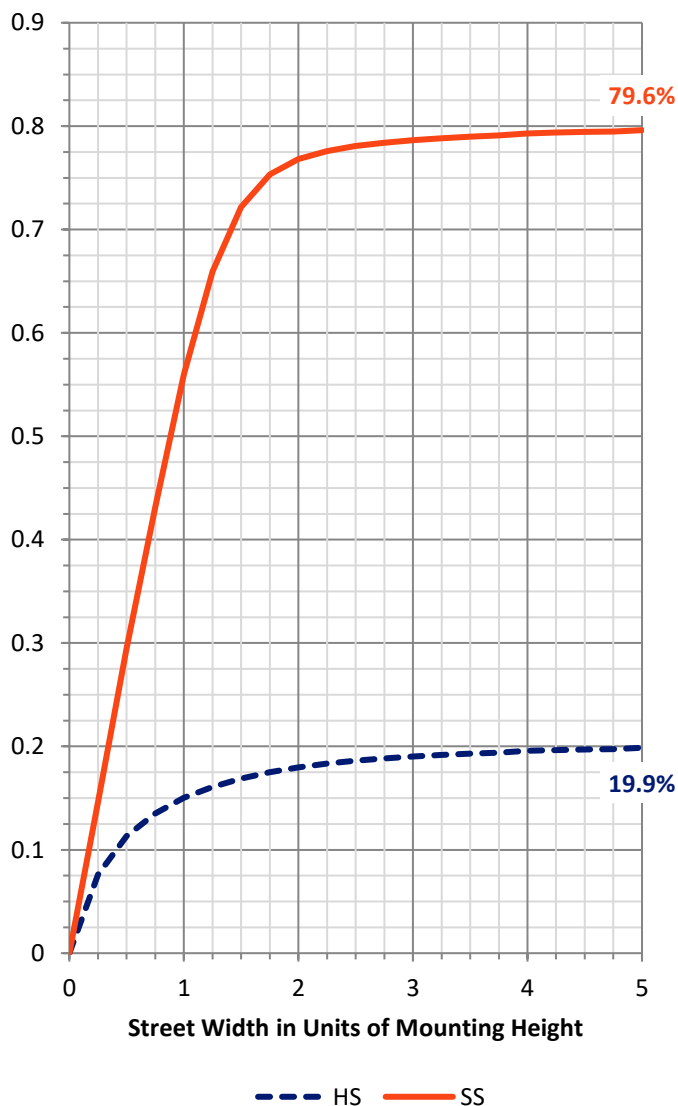
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1925.9	0.0	1925.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	7611.3	0.0	7611.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	9537.2	0.0	9537.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.4	1.2
10°-20°	365.7	3.8
20°-30°	627.7	6.6
30°-40°	969.6	10.2
40°-50°	1553.1	16.3
50°-60°	2318.9	24.3
60°-70°	2382.7	25.0
70°-80°	1056.2	11.1
80°-90°	144.9	1.5
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°	9537.2	100.0
0°-180°	9537.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476475

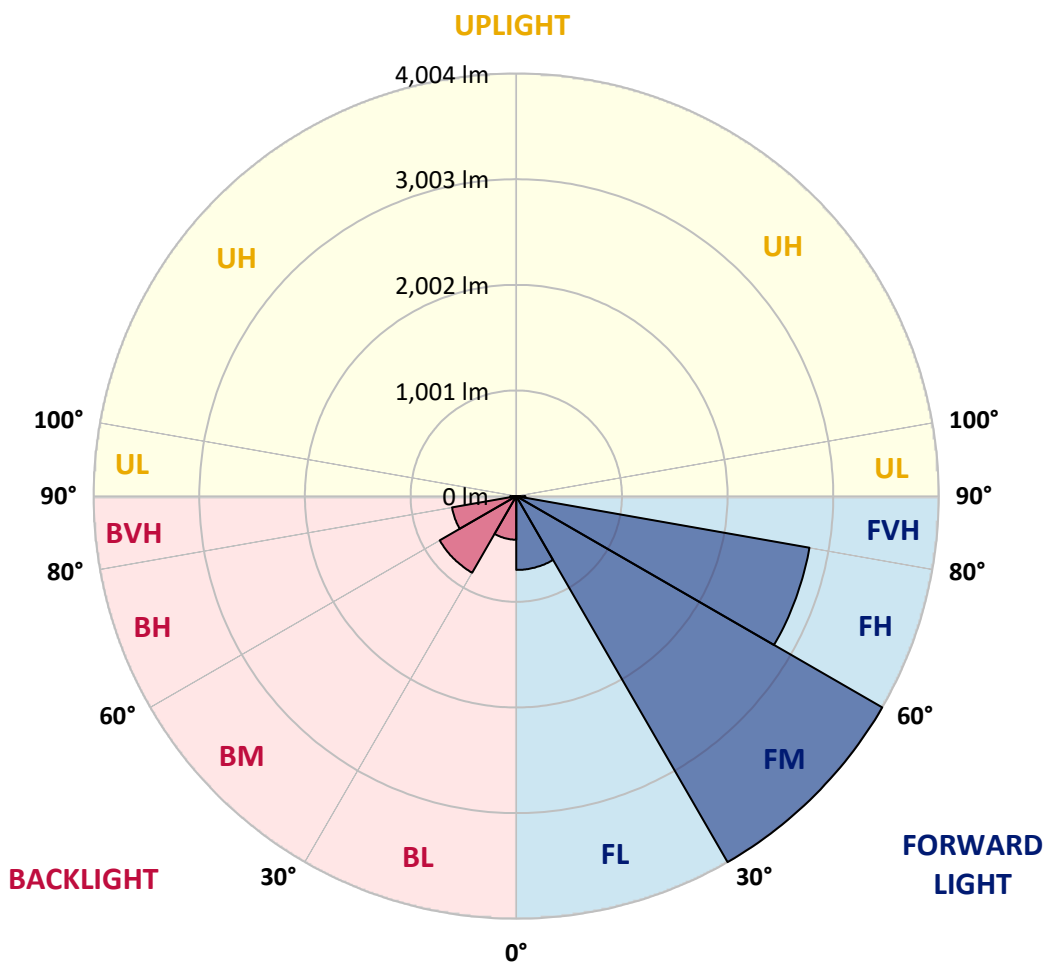
CATALOG NUMBER: IFLD-S-SA2B-727-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.1	7.3			
FM (30°-60°)	4004.3	42.0			
FH (60°-80°)	2820.9	29.6			G2/5000
FVH (80°-90°)	86.9	0.9			G1/100
BL (0°-30°)	412.6	4.3	B1/500		
BM (30°-60°)	837.3	8.8	B1/1000		
BH (60°-80°)	618.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	58.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P476475

CATALOG NUMBER: IFLD-S-SA2B-727-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1280.9	1281.9	1281.9	1277.7	1278.8	1281.9	1270.4	1245.2	1245.2	1241.0	1233.7
5°	1359.5	1354.3	1346.9	1348.0	1343.8	1343.8	1331.2	1307.1	1286.1	1277.7	1255.7
7.5°	1370.0	1375.3	1374.2	1386.8	1393.1	1393.1	1399.4	1379.5	1348.0	1328.1	1306.0
10°	1391.0	1377.4	1376.3	1405.7	1415.1	1437.2	1462.3	1451.8	1425.6	1397.3	1367.9
12.5°	1403.6	1412.0	1412.0	1426.7	1448.7	1481.2	1525.3	1545.2	1504.3	1474.9	1429.8
15°	1422.5	1410.9	1444.5	1457.1	1499.1	1522.1	1585.1	1636.5	1609.2	1573.5	1502.2
17.5°	1430.9	1423.5	1442.4	1465.5	1536.8	1571.4	1648.0	1719.3	1696.3	1673.2	1599.8
20°	1473.9	1472.8	1481.2	1500.1	1551.5	1619.7	1715.2	1813.8	1822.2	1780.2	1680.5
22.5°	1578.8	1565.1	1565.1	1557.8	1579.8	1650.1	1779.1	1915.5	1953.3	1904.0	1771.8
25°	1675.3	1694.2	1682.6	1649.1	1640.7	1677.4	1825.3	2023.6	2073.9	2027.8	1895.6
27.5°	1799.1	1805.4	1825.3	1780.2	1722.5	1734.0	1875.7	2084.4	2188.3	2126.4	1965.9
30°	1977.4	1965.9	1961.7	1911.3	1835.8	1820.1	1933.3	2173.6	2338.3	2251.2	2048.7
32.5°	2098.0	2126.4	2125.3	2056.1	1964.8	1930.2	2004.7	2257.5	2498.8	2418.0	2201.9
35°	2337.2	2366.6	2343.5	2241.8	2134.8	2065.5	2107.5	2366.6	2682.4	2619.4	2332.0
37.5°	2642.5	2711.7	2662.4	2474.6	2323.6	2248.1	2250.2	2485.1	2870.1	2818.7	2471.5
40°	2853.3	2946.7	2878.5	2702.3	2541.8	2470.4	2442.1	2625.7	3094.6	3040.1	2689.7
42.5°	3114.5	3192.2	3156.5	2982.4	2794.6	2733.8	2677.1	2860.7	3437.6	3412.5	2969.8
45°	3399.9	3436.6	3425.1	3314.9	3106.2	3085.2	2960.3	3170.1	3841.5	3852.0	3320.2
47.5°	3665.3	3685.2	3707.2	3627.5	3497.4	3515.3	3286.6	3501.6	4233.9	4303.1	3710.4
50°	3733.5	3801.7	3853.1	3906.6	3934.9	4055.5	3646.4	3908.7	4684.9	4819.2	4144.7
52.5°	3664.2	3659.0	3815.3	3983.1	4266.4	4519.2	4136.3	4414.3	5083.6	5349.0	4542.3
55°	3349.5	3339.0	3590.8	3813.2	4366.0	4777.3	4836.0	5087.8	5565.1	5910.2	5080.4
57.5°	2798.8	2733.8	3008.6	3373.7	4149.9	4805.6	5538.8	6087.5	6305.7	6699.1	5901.8
60°	1880.9	1853.6	2116.9	2552.3	3369.5	4403.8	5959.5	7339.0	7349.5	7792.1	7176.4
62.5°	1158.1	1163.4	1332.3	1658.5	2359.3	3491.1	5778.0	8338.7	8340.8	8784.5	8225.4
65°	757.4	760.5	896.9	1077.3	1473.9	2367.6	4778.3	8417.4	9030.0	9442.3	8705.8
66°	674.5	675.6	793.1	939.9	1221.1	1937.5	4220.2	8212.8	9185.2	9529.3	8699.5
67.5°	568.6	582.2	676.6	789.9	952.5	1392.1	3348.5	7621.2	9105.5	9407.6	8502.3
70°	444.8	452.1	526.6	642.0	714.4	805.6	1990.0	6212.3	8334.5	8824.4	7784.8
72.5°	356.7	363.0	419.6	521.4	580.1	530.8	1083.6	4507.7	6583.7	7106.1	6123.1
75°	301.1	302.1	329.4	410.2	477.3	398.6	577.0	2893.2	4224.4	4467.8	3751.3
77.5°	243.4	247.6	266.5	312.6	383.9	313.7	344.1	1620.7	2121.1	2139.0	1734.0
80°	198.3	200.4	211.9	227.6	292.7	231.8	232.9	791.0	909.5	888.5	704.9
82.5°	156.3	158.4	172.0	168.9	215.0	165.7	144.8	380.8	418.6	410.2	324.1
85°	88.1	88.1	135.3	135.3	136.4	104.9	88.1	179.4	221.3	206.7	152.1
87.5°	28.3	29.4	40.9	43.0	68.2	47.2	43.0	67.1	104.9	92.3	54.5
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: P476475  
 CATALOG NUMBER: IFLD-S-SA2B-727-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1229.5	1212.7	1205.3	1181.2	1174.9	1159.2	1151.8	1142.4	1139.2	1125.6	1138.2
5°	1238.9	1233.7	1204.3	1173.9	1150.8	1140.3	1124.6	1103.6	1101.5	1082.6	1080.5
7.5°	1278.8	1260.9	1209.5	1177.0	1130.8	1104.6	1070.0	1059.5	1045.9	1039.6	1053.2
10°	1340.7	1295.5	1219.0	1137.1	1080.5	1049.0	1023.8	1016.5	1017.6	1013.4	1007.1
12.5°	1384.7	1341.7	1203.2	1103.6	1030.1	999.7	997.6	1005.0	1016.5	1011.3	1018.6
15°	1447.7	1366.9	1191.7	1048.0	989.2	980.8	979.8	1001.8	1000.8	1000.8	999.7
17.5°	1506.4	1392.1	1149.7	999.7	946.2	952.5	959.9	958.8	969.3	973.5	980.8
20°	1580.9	1421.4	1091.0	951.5	913.7	911.6	910.6	911.6	922.1	928.4	923.1
22.5°	1645.9	1427.7	1041.7	905.3	874.9	866.5	852.9	866.5	861.2	863.3	869.6
25°	1702.6	1428.8	971.4	870.7	836.1	817.2	806.7	805.6	796.2	795.2	795.2
27.5°	1749.8	1393.1	909.5	822.4	789.9	772.1	771.0	759.5	735.4	719.6	721.7
30°	1786.5	1365.8	866.5	780.5	749.0	745.9	736.4	710.2	678.7	658.8	658.8
32.5°	1851.5	1311.3	807.7	737.5	721.7	717.5	695.5	672.4	643.1	624.2	621.0
35°	1899.8	1260.9	768.9	700.7	693.4	685.0	666.1	641.0	632.6	628.4	631.5
37.5°	1954.3	1204.3	721.7	669.3	676.6	660.9	638.9	627.3	656.7	649.3	652.5
40°	2041.4	1164.4	675.6	650.4	657.7	639.9	611.6	607.4	644.1	617.9	611.6
42.5°	2200.9	1163.4	647.2	622.1	627.3	613.7	588.5	586.4	601.1	569.6	560.2
45°	2399.1	1200.1	626.3	601.1	596.9	594.8	586.4	577.0	564.4	523.5	513.0
47.5°	2636.2	1259.9	622.1	569.6	574.9	592.7	582.2	558.1	525.6	499.3	494.1
50°	2923.6	1383.7	611.6	546.5	556.0	584.3	575.9	542.3	513.0	496.2	493.0
52.5°	3241.5	1540.0	597.9	510.9	531.9	577.0	581.2	549.7	506.7	492.0	489.9
55°	3616.0	1770.8	582.2	472.1	503.5	569.6	581.2	528.7	498.3	498.3	496.2
57.5°	4355.5	2186.2	549.7	436.4	478.4	556.0	564.4	529.8	499.3	499.3	495.1
60°	5440.2	2834.5	487.8	409.1	454.2	537.1	551.8	514.0	487.8	494.1	493.0
62.5°	6288.9	3031.7	435.3	382.9	430.1	502.5	535.0	497.2	474.2	497.2	499.3
65°	6470.4	2832.4	381.8	354.6	396.5	468.9	510.9	473.1	454.2	499.3	501.4
66°	6405.3	2677.1	363.0	346.2	381.8	452.1	496.2	464.7	443.7	497.2	498.3
67.5°	6115.8	2444.2	342.0	328.3	361.9	428.0	479.4	453.2	427.0	490.9	481.5
70°	5486.4	2072.9	306.3	296.9	333.6	388.1	440.6	423.8	400.7	452.1	435.3
72.5°	4225.5	1656.4	268.5	269.6	301.1	347.2	401.8	390.2	370.3	396.5	386.0
75°	2573.3	1058.5	233.9	236.0	262.3	308.4	365.1	356.7	332.5	347.2	342.0
77.5°	1140.3	524.5	197.2	201.4	222.4	271.7	317.9	304.2	279.0	282.2	280.1
80°	442.7	248.6	160.5	165.7	179.4	217.1	263.3	250.7	228.7	224.5	222.4
82.5°	213.0	138.5	123.8	125.9	131.1	173.1	226.6	210.9	181.5	162.6	162.6
85°	107.0	86.0	87.1	79.7	87.1	117.5	153.2	128.0	106.0	94.4	96.5
87.5°	43.0	43.0	43.0	36.7	38.8	55.6	71.3	48.3	44.1	26.2	26.2
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)