

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: P483616

Luminaire Tested: **IFLD-S-SA3A-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483616
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

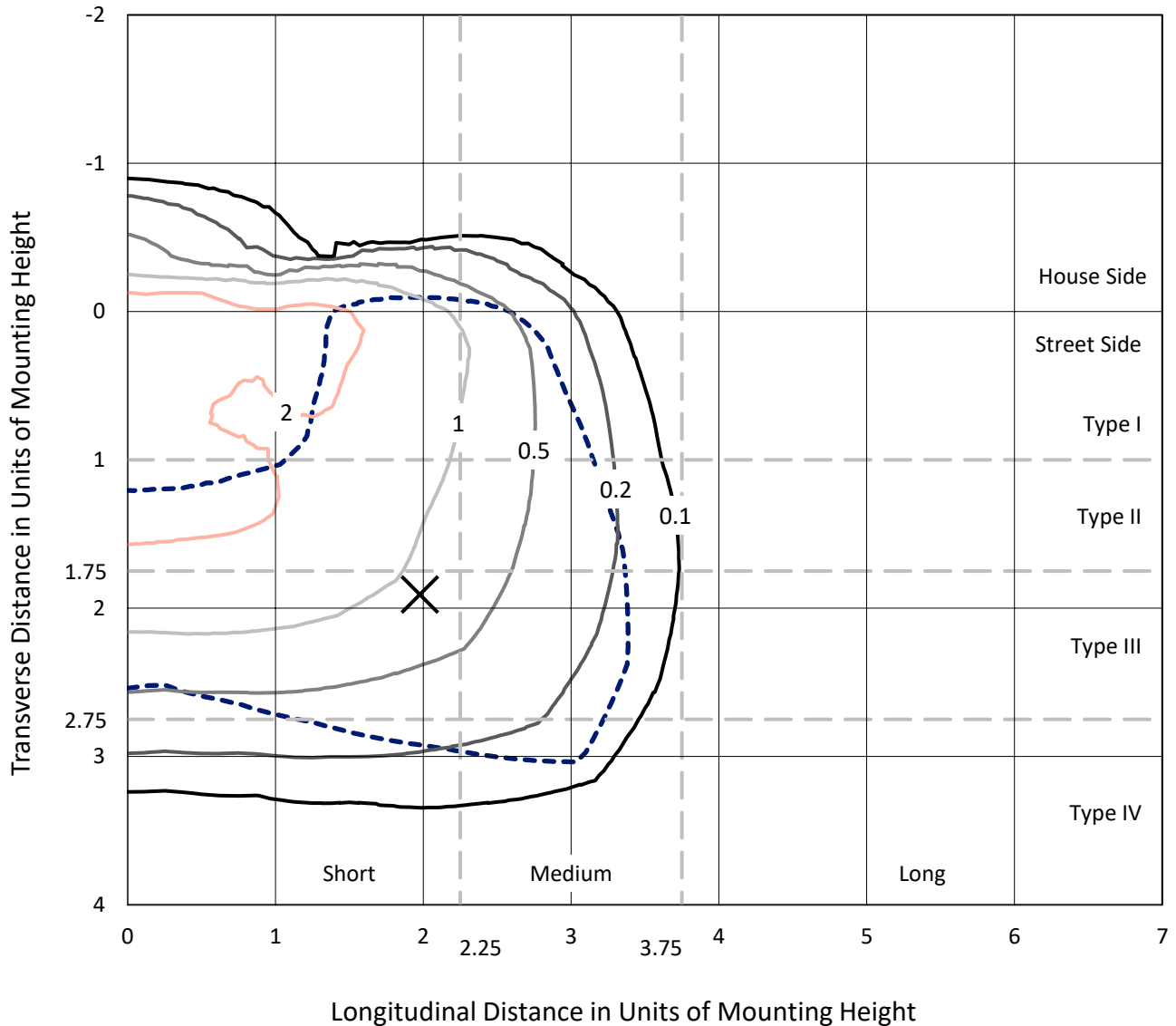
Lumens per Lamp: N/A
Luminaire Lumens: 10151.5 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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: P483616
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

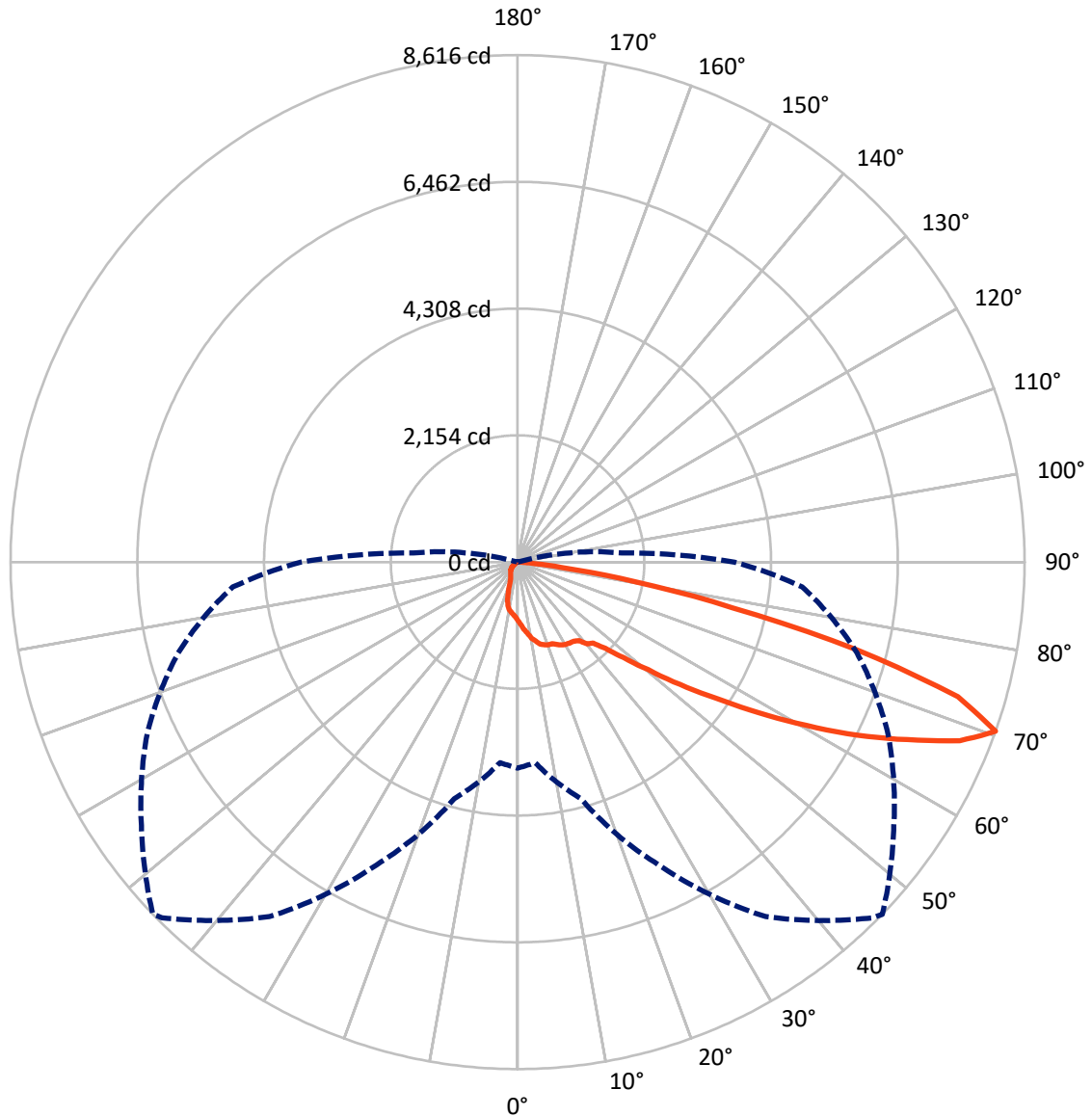
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P483616
CATALOG NUMBER: IFLD-S-SA3A-740-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483616
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T4W-HSS

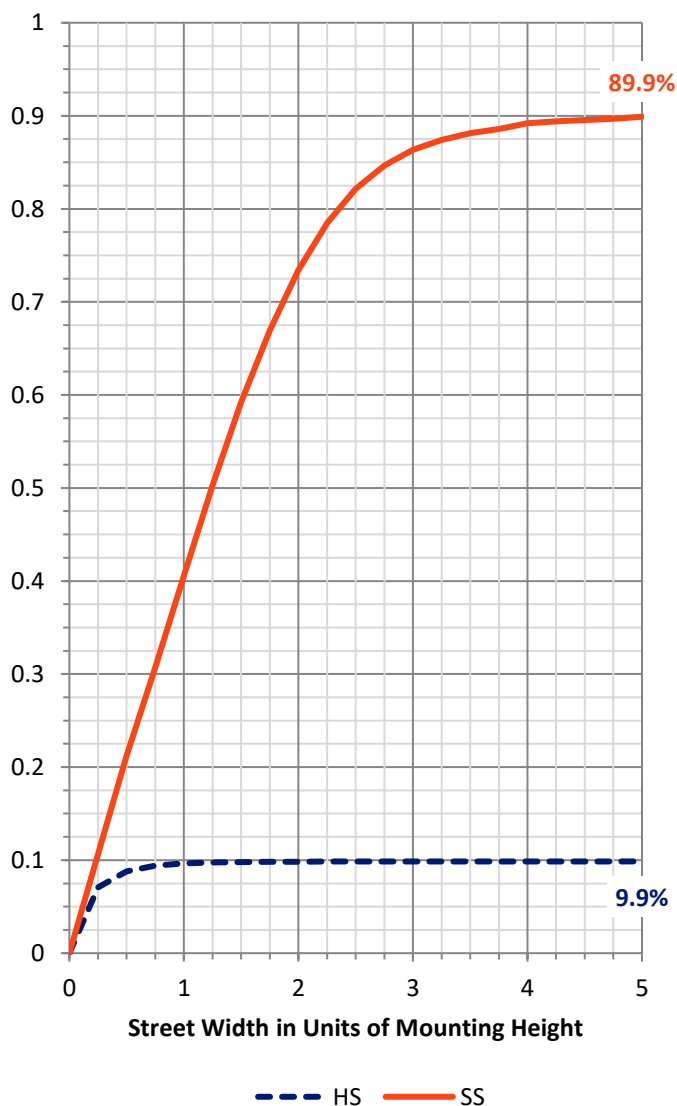
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1010.1	0.0	1010.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9141.4	0.0	9141.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	10151.5	0.0	10151.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.0
10°-20°	300.1	3.0
20°-30°	480.7	4.7
30°-40°	686.1	6.8
40°-50°	1184.7	11.7
50°-60°	2268.2	22.3
60°-70°	3358.9	33.1
70°-80°	1663.6	16.4
80°-90°	109.9	1.1
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°	10151.5	100.0
0°-180°	10151.5	100.0

Coefficient of Utilization

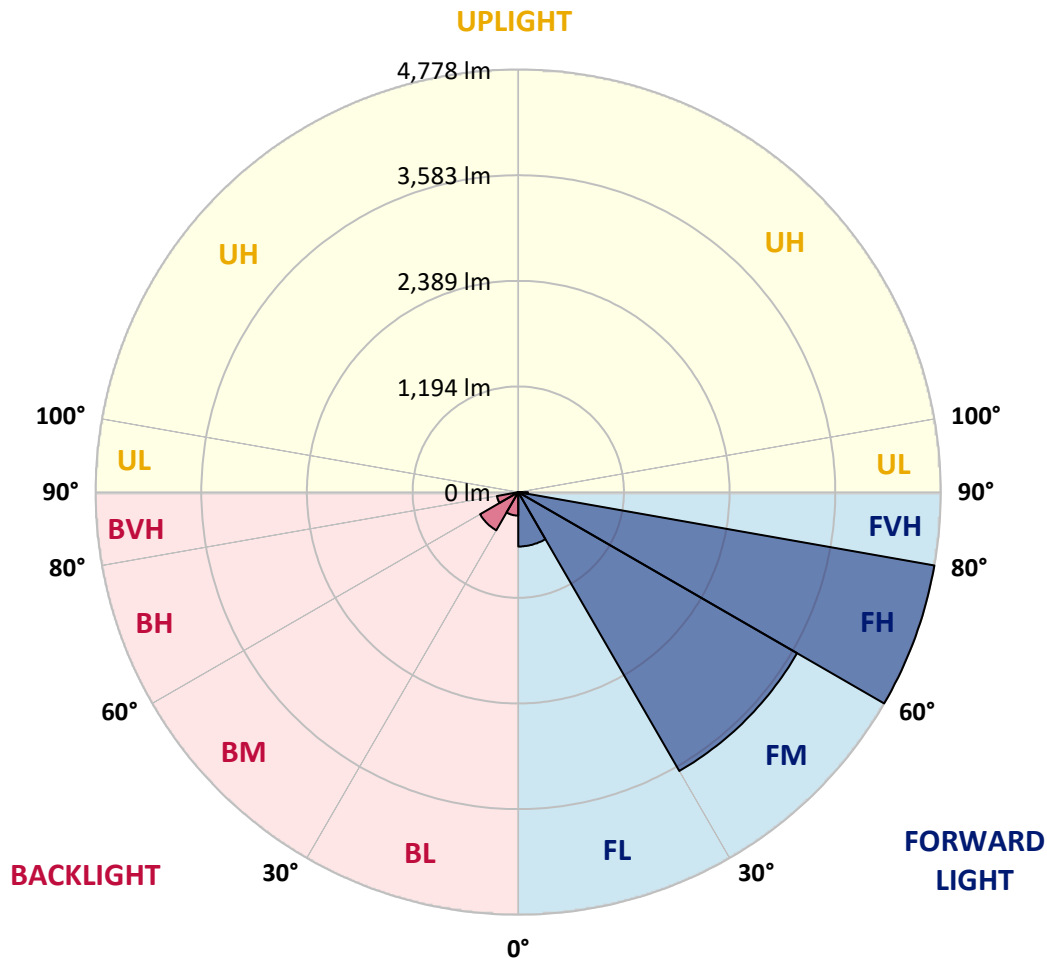


REPORT NUMBER: P483616
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.8	6.1			
FM (30°-60°)	3640.3	35.9			
FH (60°-80°)	4777.8	47.1			G2/5000
FVH (80°-90°)	108.5	1.1			G2/225
BL (0°-30°)	265.4	2.6	B1/500		
BM (30°-60°)	498.7	4.9	B1/1000		
BH (60°-80°)	244.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.4	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 IV Short





REPORT NUMBER: P483616

CATALOG NUMBER: IFLD-S-SA3A-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	1112.0	1104.7	1093.0	1088.6	1076.9	1071.1	1062.3	1057.9	1041.9	1025.8	1015.6
5°	1247.9	1230.4	1236.2	1218.7	1180.7	1150.0	1148.5	1114.9	1078.4	1049.2	1009.7
7.5°	1385.3	1370.6	1348.7	1323.9	1281.5	1236.2	1223.1	1190.9	1139.8	1088.6	1036.0
10°	1489.0	1478.8	1459.8	1424.7	1366.3	1315.1	1316.6	1262.5	1208.4	1150.0	1078.4
12.5°	1553.3	1557.7	1529.9	1494.8	1443.7	1379.4	1377.9	1341.4	1280.0	1218.7	1133.9
15°	1617.6	1633.7	1591.3	1550.4	1484.6	1437.9	1446.6	1402.8	1342.9	1272.7	1179.2
17.5°	1627.8	1632.2	1623.4	1563.5	1515.3	1475.9	1477.3	1448.1	1402.8	1326.8	1246.4
20°	1610.3	1607.4	1597.1	1553.3	1521.1	1497.8	1499.2	1491.9	1467.1	1405.7	1296.1
22.5°	1559.1	1559.1	1546.0	1516.8	1502.2	1524.1	1506.5	1534.3	1508.0	1471.5	1380.9
25°	1518.2	1534.3	1527.0	1508.0	1513.8	1543.1	1551.8	1578.1	1573.8	1528.5	1439.3
27.5°	1562.1	1543.1	1547.5	1525.5	1547.5	1591.3	1595.7	1614.7	1613.2	1576.7	1491.9
30°	1591.3	1608.8	1575.2	1527.0	1550.4	1624.9	1622.0	1646.8	1658.5	1614.7	1541.6
32.5°	1684.8	1670.2	1642.4	1578.1	1581.1	1623.4	1636.6	1668.7	1676.0	1649.7	1589.8
35°	1876.2	1854.3	1733.0	1636.6	1622.0	1642.4	1651.2	1714.0	1727.2	1698.0	1641.0
37.5°	2171.4	2121.7	1975.6	1762.3	1696.5	1692.1	1692.1	1775.4	1825.1	1757.9	1717.0
40°	2593.7	2523.6	2365.7	1994.6	1794.4	1811.9	1829.5	1874.8	1868.9	1825.1	1816.3
42.5°	3131.4	3077.4	2906.4	2384.7	1981.4	1893.8	1879.2	1940.5	2032.6	2015.0	2009.2
45°	3580.0	3583.0	3473.4	2919.6	2304.4	2082.3	2092.5	2139.3	2294.1	2281.0	2279.5
47.5°	3907.3	3866.4	3850.4	3435.4	2774.9	2440.3	2425.7	2457.8	2659.5	2742.7	2780.7
50°	4205.4	4177.7	4139.7	3936.6	3340.4	2888.9	2874.3	2877.2	3185.5	3302.4	3395.9
52.5°	4575.1	4610.2	4484.5	4360.3	4072.5	3471.9	3455.8	3398.8	3781.7	3942.4	4053.5
55°	5031.0	4965.3	4823.5	4887.8	4772.4	4101.7	4072.5	4005.3	4461.2	4528.4	4645.3
57.5°	5131.9	5082.2	5228.3	5456.3	5567.3	4841.1	4829.4	4708.1	5032.5	4971.1	5301.4
60°	5383.2	5396.4	5599.5	6052.4	6245.3	5694.4	5637.5	5424.1	5586.3	5598.0	5950.2
62.5°	5641.8	5611.2	6065.6	6501.0	6797.7	6502.5	6483.5	6059.8	6243.9	6094.8	6561.0
65°	5451.9	5498.6	6148.9	6878.0	7513.7	7293.0	7277.0	6672.0	6772.8	6587.3	6809.4
67.5°	4776.8	4681.8	5592.2	6705.6	7881.9	8121.6	8104.0	7339.8	7070.9	6584.3	6293.6
70°	3501.1	3419.3	4161.6	5678.4	7354.4	8545.3	8615.5	7804.5	6949.6	5970.6	4855.7
72.5°	1715.5	1717.0	2332.1	3850.4	5818.6	7788.4	7823.5	7155.7	5970.6	4401.2	2750.0
75°	507.0	512.9	863.6	1887.9	3761.2	5915.1	5954.5	5431.4	4138.2	2273.7	938.1
77.5°	185.6	185.6	286.4	708.7	1876.2	3733.5	3730.5	3334.5	2095.4	770.1	219.2
80°	96.4	100.8	149.0	289.3	812.4	1944.9	2018.0	1632.2	796.4	324.4	64.3
82.5°	39.5	43.8	81.8	149.0	390.2	682.4	746.7	640.0	346.3	226.5	29.2
85°	11.7	13.2	39.5	83.3	153.4	171.0	190.0	214.8	217.7	175.3	13.2
87.5°	1.5	1.5	16.1	27.8	33.6	36.5	42.4	42.4	111.1	122.7	7.3
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: P483616

CATALOG NUMBER: IFLD-S-SA3A-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6	996.6
2.5°	1003.9	996.6	984.9	958.6	952.7	933.7	932.3	914.7	920.6	908.9	904.5
5°	996.6	980.5	948.3	927.9	907.4	894.3	885.5	878.2	876.7	870.9	868.0
7.5°	1009.7	987.8	938.1	906.0	870.9	859.2	840.2	838.8	828.5	818.3	818.3
10°	1053.6	1014.1	960.0	906.0	860.7	822.7	778.8	746.7	735.0	708.7	711.6
12.5°	1088.6	1053.6	974.6	919.1	850.4	764.2	667.8	593.3	558.2	524.6	537.7
15°	1138.3	1087.2	1002.4	922.0	811.0	661.9	504.1	420.8	388.7	381.4	379.9
17.5°	1192.4	1138.3	1037.5	914.7	730.6	511.4	371.2	322.9	328.8	337.5	336.1
20°	1252.3	1186.5	1063.8	889.9	603.5	371.2	303.9	302.5	311.2	324.4	327.3
22.5°	1315.1	1258.1	1095.9	815.4	450.1	298.1	292.2	292.2	298.1	314.2	311.2
25°	1385.3	1309.3	1112.0	699.9	322.9	274.7	277.6	283.5	286.4	299.6	301.0
27.5°	1439.3	1366.3	1116.4	561.1	263.0	254.3	261.6	268.9	273.3	283.5	287.9
30°	1489.0	1437.9	1093.0	417.9	241.1	236.7	239.6	249.9	258.6	267.4	267.4
32.5°	1551.8	1478.8	1038.9	296.6	228.0	220.6	219.2	223.6	233.8	244.0	244.0
35°	1616.1	1547.5	952.7	238.2	216.3	206.0	200.2	195.8	200.2	207.5	213.3
37.5°	1709.6	1651.2	844.6	219.2	207.5	192.9	181.2	171.0	163.7	162.2	166.6
40°	1842.6	1768.1	705.8	206.0	197.3	179.7	162.2	144.7	128.6	118.4	119.8
42.5°	2044.3	1940.5	555.3	198.7	190.0	165.1	140.3	115.4	95.0	84.8	84.8
45°	2332.1	2168.5	407.7	191.4	181.2	147.6	115.4	86.2	65.8	59.9	61.4
47.5°	2766.1	2443.2	292.2	179.7	169.5	128.6	90.6	61.4	48.2	45.3	46.8
50°	3333.1	2769.0	228.0	166.6	154.9	108.1	67.2	45.3	38.0	36.5	38.0
52.5°	3927.8	3097.8	200.2	154.9	133.0	86.2	49.7	36.5	32.1	30.7	32.1
55°	4436.3	3309.7	173.9	137.4	106.7	64.3	39.5	32.1	27.8	23.4	23.4
57.5°	4950.7	3416.4	137.4	114.0	78.9	48.2	33.6	27.8	23.4	19.0	17.5
60°	5368.6	3492.4	97.9	84.8	55.5	38.0	29.2	24.8	19.0	14.6	13.2
62.5°	5643.3	3274.6	71.6	64.3	40.9	32.1	24.8	20.5	14.6	10.2	10.2
65°	5507.4	2973.6	55.5	45.3	30.7	24.8	20.5	14.6	10.2	5.8	4.4
67.5°	4941.9	2422.7	45.3	33.6	23.4	19.0	16.1	11.7	5.8	1.5	1.5
70°	3686.7	1775.4	36.5	24.8	19.0	14.6	11.7	7.3	2.9	1.5	0.0
72.5°	2016.5	971.7	29.2	20.5	14.6	11.7	8.8	5.8	2.9	0.0	0.0
75°	666.3	258.6	21.9	14.6	8.8	7.3	5.8	4.4	1.5	0.0	0.0
77.5°	160.7	67.2	17.5	13.2	7.3	4.4	2.9	1.5	1.5	0.0	0.0
80°	49.7	27.8	13.2	8.8	5.8	4.4	1.5	0.0	0.0	0.0	0.0
82.5°	20.5	13.2	5.8	5.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.2	7.3	4.4	2.9	2.9	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	2.9	1.5	1.5	0.0	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)