

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: P481432

Luminaire Tested: **IFLD-S-SA3A-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481432
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

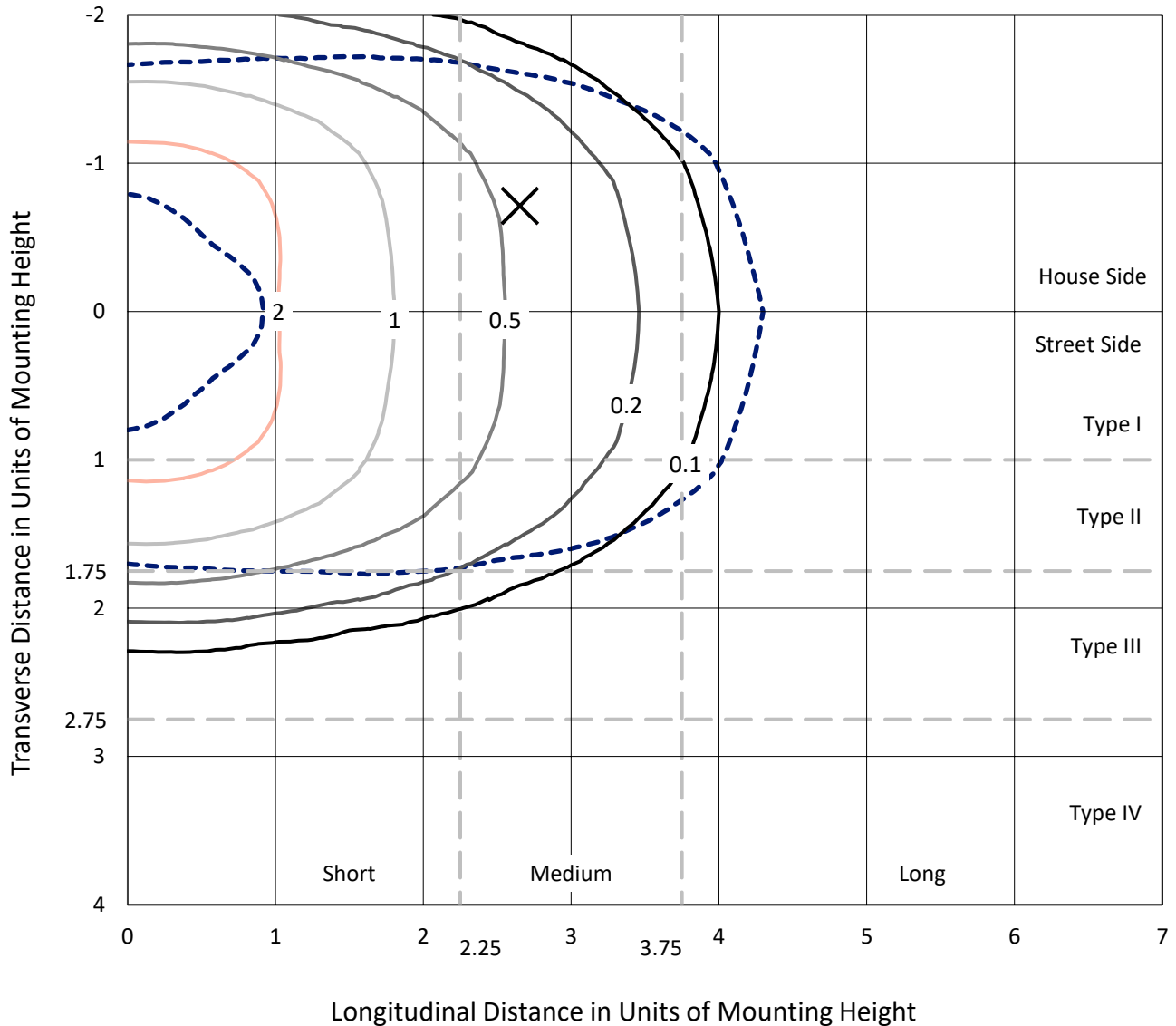
Lumens per Lamp: N/A
Luminaire Lumens: 11260.8 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

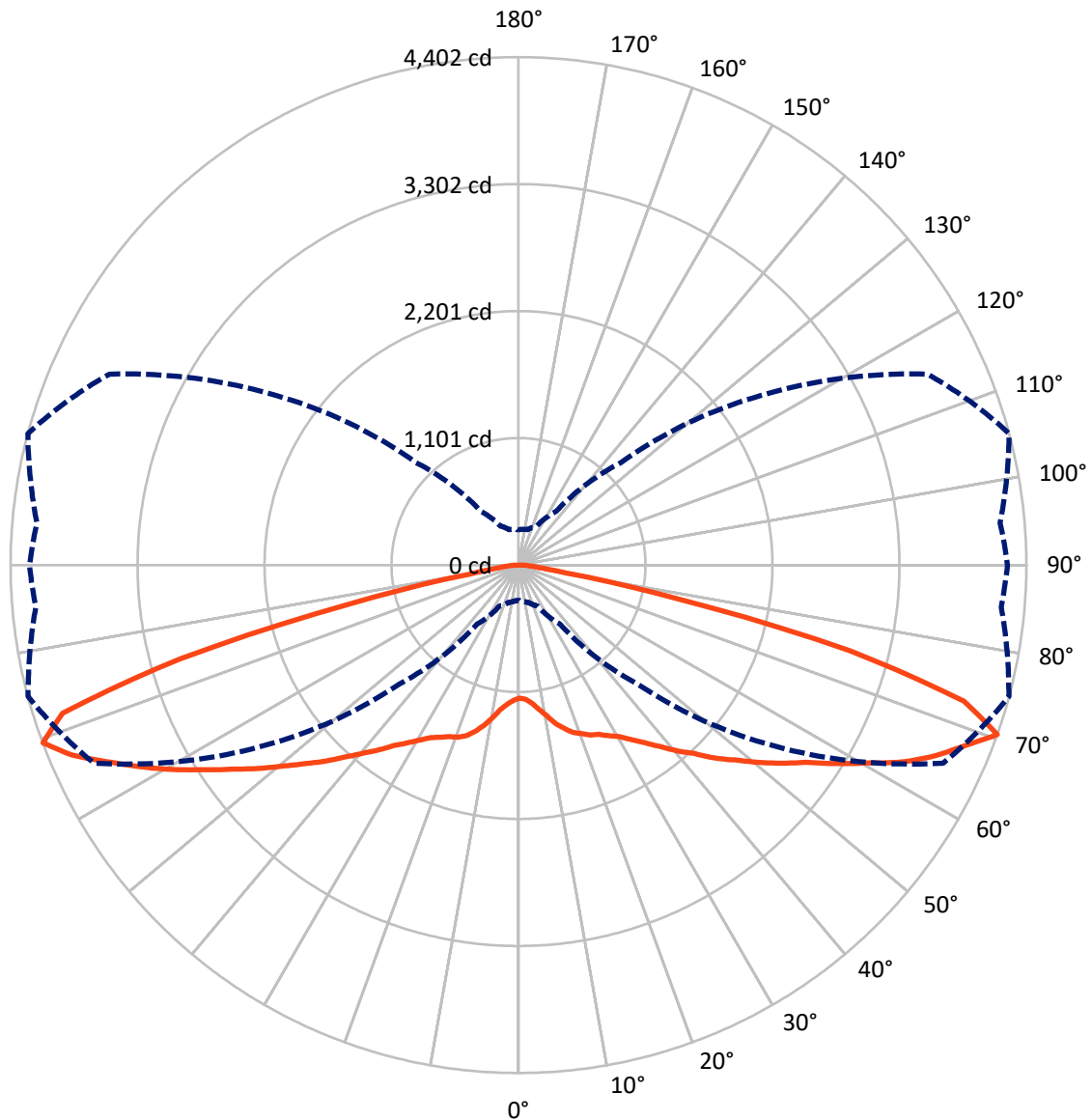
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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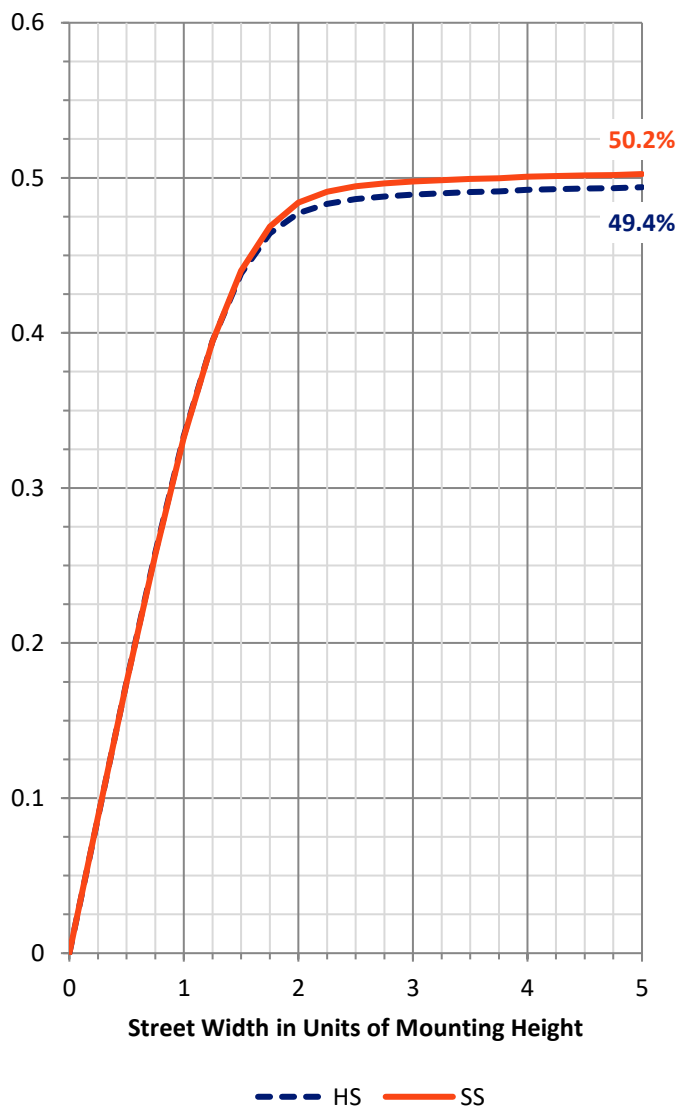
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5590.4	0.0	5590.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5670.5	0.0	5670.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	11260.8	0.0	11260.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.0
10°-20°	390.8	3.5
20°-30°	756.7	6.7
30°-40°	1279.9	11.4
40°-50°	2041.8	18.1
50°-60°	2794.8	24.8
60°-70°	2634.3	23.4
70°-80°	1160.5	10.3
80°-90°	87.3	0.8
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°	11260.8	100.0
0°-180°	11260.8	100.0

Coefficient of Utilization



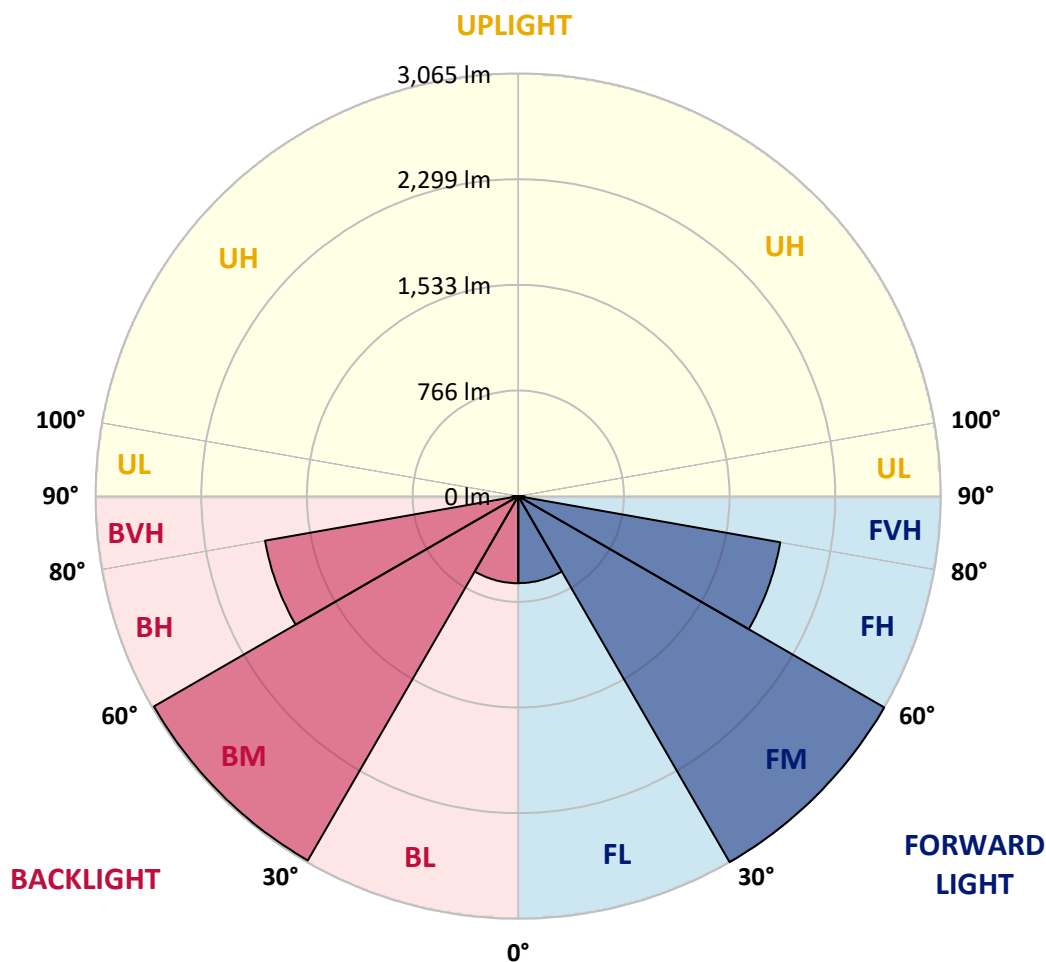
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.8	5.6			
FM (30°-60°)	3065.1	27.2			
FH (60°-80°)	1930.0	17.1			G2/5000
FVH (80°-90°)	44.6	0.4			G1/100
BL (0°-30°)	631.5	5.6	B2/1000		
BM (30°-60°)	3051.4	27.1	B3/5000		
BH (60°-80°)	1864.8	16.6	B3/2500		G3/2500
BVH (80°-90°)	42.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1145.8	1145.8	1144.6	1150.7	1156.7	1159.2	1164.0	1165.2	1172.5	1166.4	1178.6
5°	1142.2	1141.0	1150.7	1165.2	1165.2	1181.0	1190.7	1204.1	1207.7	1215.0	1217.4
7.5°	1167.7	1165.2	1160.4	1176.2	1189.5	1213.8	1227.1	1250.2	1258.7	1268.4	1279.3
10°	1183.4	1183.4	1178.6	1206.5	1218.6	1251.4	1280.5	1303.6	1336.4	1347.3	1348.5
12.5°	1185.9	1189.5	1204.1	1240.5	1274.5	1317.0	1338.8	1382.5	1415.3	1435.9	1443.2
15°	1222.3	1215.0	1230.8	1280.5	1330.3	1367.9	1406.8	1438.3	1485.7	1512.4	1529.4
17.5°	1255.1	1247.8	1276.9	1336.4	1387.4	1445.6	1479.6	1513.6	1547.6	1571.9	1573.1
20°	1307.2	1313.3	1338.8	1403.1	1469.9	1520.9	1559.7	1565.8	1582.8	1618.0	1611.9
22.5°	1371.6	1366.7	1420.1	1490.5	1563.4	1605.8	1627.7	1611.9	1603.4	1641.0	1649.5
25°	1435.9	1450.5	1499.0	1564.6	1652.0	1709.0	1715.1	1671.4	1639.8	1653.2	1649.5
27.5°	1534.2	1536.7	1587.6	1665.3	1753.9	1803.7	1800.0	1738.1	1677.4	1678.7	1681.1
30°	1660.5	1648.3	1704.2	1774.6	1861.9	1906.9	1912.9	1824.3	1743.0	1718.7	1724.8
32.5°	1781.8	1796.4	1845.0	1925.1	1989.4	2014.9	2001.5	1922.6	1817.0	1784.3	1787.9
35°	1937.2	1934.8	2001.5	2069.5	2118.1	2122.9	2112.0	1996.7	1897.1	1854.7	1837.7
37.5°	2103.5	2125.3	2169.0	2224.9	2275.8	2278.3	2218.8	2126.5	2004.0	1933.6	1954.2
40°	2289.2	2313.5	2345.0	2426.4	2464.0	2425.1	2364.5	2239.4	2112.0	2050.1	2059.8
42.5°	2453.1	2464.0	2528.3	2624.2	2642.4	2625.4	2535.6	2383.9	2235.8	2167.8	2172.7
45°	2603.6	2618.1	2701.9	2788.1	2830.5	2801.4	2697.0	2552.6	2380.2	2322.0	2298.9
47.5°	2741.9	2771.1	2852.4	2941.0	3006.5	3009.0	2880.3	2705.5	2523.5	2447.0	2445.8
50°	2835.4	2877.9	2958.0	3058.7	3154.6	3192.3	3063.6	2875.5	2680.0	2598.7	2590.2
52.5°	2886.4	2930.1	3010.2	3166.8	3273.6	3331.8	3271.1	3034.5	2863.3	2778.4	2765.0
55°	2824.5	2853.6	2984.7	3204.4	3369.5	3465.4	3425.3	3254.2	3045.4	2976.2	2988.3
57.5°	2561.1	2621.8	2783.2	3057.5	3367.0	3602.5	3598.9	3461.7	3255.4	3189.8	3192.3
60°	2108.3	2159.3	2358.4	2741.9	3231.1	3658.3	3787.0	3663.2	3490.8	3414.4	3411.9
62.5°	1488.1	1552.4	1783.0	2201.8	2830.5	3580.7	4003.1	3916.9	3721.5	3665.6	3686.3
65°	832.7	871.5	1085.1	1463.8	2156.9	3153.4	4041.9	4180.3	3955.7	3870.8	3874.4
67.5°	445.5	460.0	559.6	768.3	1319.4	2431.2	3649.8	4332.0	4209.4	4062.5	4039.5
70°	305.9	310.7	336.2	393.3	623.9	1454.1	2752.9	4061.3	4400.0	4199.7	4238.5
72.5°	258.5	256.1	262.2	268.2	326.5	650.6	1615.5	3125.5	4153.6	4078.3	4063.7
75°	224.6	223.3	225.8	219.7	227.0	286.5	714.9	1948.1	3040.5	3393.7	3448.4
77.5°	185.7	186.9	188.1	182.1	179.6	189.4	287.7	855.7	1496.6	1652.0	1781.8
80°	140.8	143.2	152.9	146.9	137.2	138.4	169.9	286.5	429.7	389.6	401.8
82.5°	95.9	97.1	117.7	110.5	103.2	93.5	109.2	148.1	167.5	127.4	111.7
85°	68.0	66.8	76.5	70.4	65.5	47.3	65.5	83.8	100.7	63.1	57.0
87.5°	15.8	15.8	31.6	25.5	24.3	19.4	25.5	32.8	43.7	27.9	25.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1	1153.1
2.5°	1174.9	1164.0	1164.0	1161.6	1151.9	1149.5	1141.0	1143.4	1137.3	1131.2
5°	1216.2	1201.6	1201.6	1181.0	1161.6	1159.2	1149.5	1149.5	1139.7	1142.2
7.5°	1273.3	1259.9	1238.1	1219.9	1193.1	1182.2	1164.0	1161.6	1159.2	1154.3
10°	1341.2	1324.2	1302.4	1264.8	1242.9	1222.3	1204.1	1178.6	1172.5	1173.7
12.5°	1433.5	1406.8	1359.4	1326.7	1298.7	1272.0	1245.3	1207.7	1199.2	1202.9
15°	1499.0	1465.0	1417.7	1405.6	1367.9	1335.2	1291.5	1249.0	1234.4	1230.8
17.5°	1552.4	1524.5	1496.6	1478.4	1448.0	1408.0	1347.3	1298.7	1266.0	1262.3
20°	1596.1	1559.7	1553.6	1564.6	1526.9	1500.2	1426.2	1366.7	1323.0	1304.8
22.5°	1622.8	1599.8	1616.8	1626.5	1624.0	1579.1	1502.7	1433.5	1378.9	1361.9
25°	1652.0	1625.3	1685.9	1718.7	1727.2	1653.2	1593.7	1502.7	1449.3	1438.3
27.5°	1666.5	1676.2	1746.6	1815.8	1809.8	1752.7	1672.6	1591.3	1548.8	1529.4
30°	1709.0	1724.8	1831.6	1909.3	1910.5	1854.7	1794.0	1701.7	1654.4	1645.9
32.5°	1785.5	1804.9	1919.0	2001.5	2016.1	1973.6	1912.9	1855.9	1807.3	1787.9
35°	1843.7	1893.5	2022.2	2097.4	2136.3	2110.8	2076.8	2017.3	1966.3	1949.3
37.5°	1927.5	1996.7	2120.5	2222.4	2266.1	2263.7	2238.2	2173.9	2131.4	2116.8
40°	2047.7	2116.8	2229.7	2364.5	2445.8	2442.1	2427.6	2377.8	2314.7	2307.4
42.5°	2175.1	2232.1	2379.0	2533.2	2649.7	2637.6	2598.7	2540.4	2496.8	2487.0
45°	2298.9	2387.5	2523.5	2721.3	2808.7	2839.0	2792.9	2693.4	2643.6	2637.6
47.5°	2454.3	2524.7	2694.6	2871.8	3001.7	3006.5	2927.6	2835.4	2744.4	2763.8
50°	2592.6	2686.1	2858.5	3052.7	3208.0	3152.2	3051.5	2936.1	2870.6	2845.1
52.5°	2740.7	2854.8	3055.1	3252.9	3339.1	3283.3	3119.4	2990.8	2891.2	2880.3
55°	2956.8	3016.3	3278.4	3430.2	3458.1	3340.3	3098.8	2916.7	2788.1	2756.5
57.5°	3176.5	3245.7	3475.1	3606.2	3577.0	3308.8	2965.3	2683.7	2515.0	2470.1
60°	3398.6	3483.6	3676.6	3796.7	3646.2	3091.5	2587.8	2224.9	2028.2	1988.2
62.5°	3646.2	3756.7	3929.0	3971.5	3441.1	2661.8	2053.7	1605.8	1406.8	1340.0
65°	3865.9	3978.8	4191.2	3935.1	3005.3	1985.8	1327.9	917.6	770.8	717.3
67.5°	4046.8	4174.2	4278.6	3482.3	2200.6	1162.8	691.9	483.1	428.5	409.0
70°	4190.0	4402.4	3914.5	2559.9	1257.5	566.8	373.8	318.0	310.7	305.9
72.5°	4065.0	4037.0	2922.8	1477.2	551.1	311.9	270.7	262.2	261.0	262.2
75°	3324.6	2965.3	1747.8	642.1	276.7	225.8	224.6	220.9	227.0	227.0
77.5°	1613.1	1410.4	730.7	275.5	182.1	177.2	183.3	183.3	183.3	183.3
80°	373.8	413.9	261.0	167.5	132.3	132.3	145.7	146.9	140.8	138.4
82.5°	127.4	169.9	143.2	105.6	87.4	98.3	110.5	112.9	93.5	94.7
85°	63.1	99.5	77.7	60.7	44.9	60.7	71.6	75.3	64.3	61.9
87.5°	29.1	43.7	29.1	20.6	15.8	21.8	20.6	17.0	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)