

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: P481390

Luminaire Tested: **IFLD-S-SA2C-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481390
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

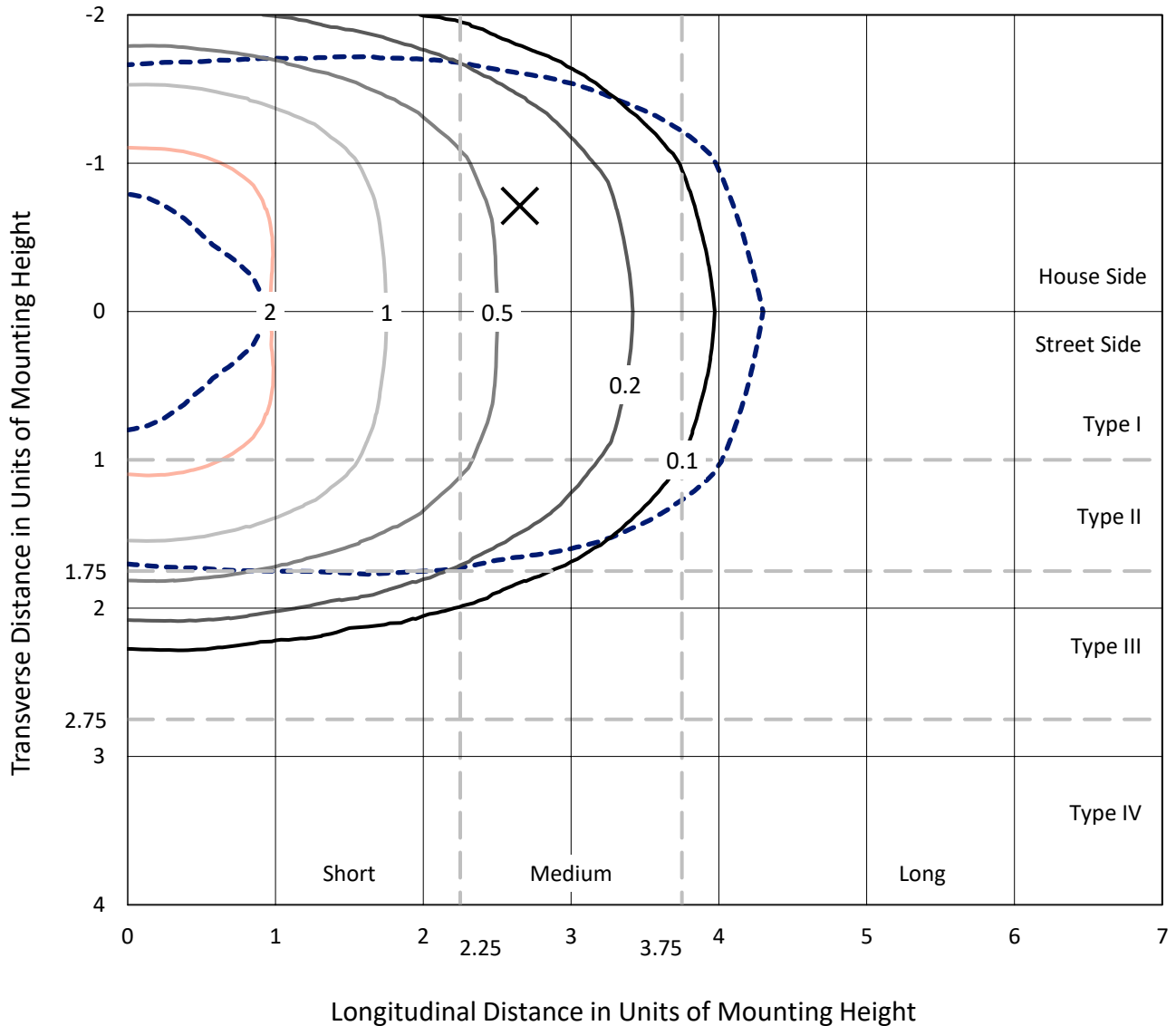
Lumens per Lamp: N/A
Luminaire Lumens: 10762 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 108.2
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

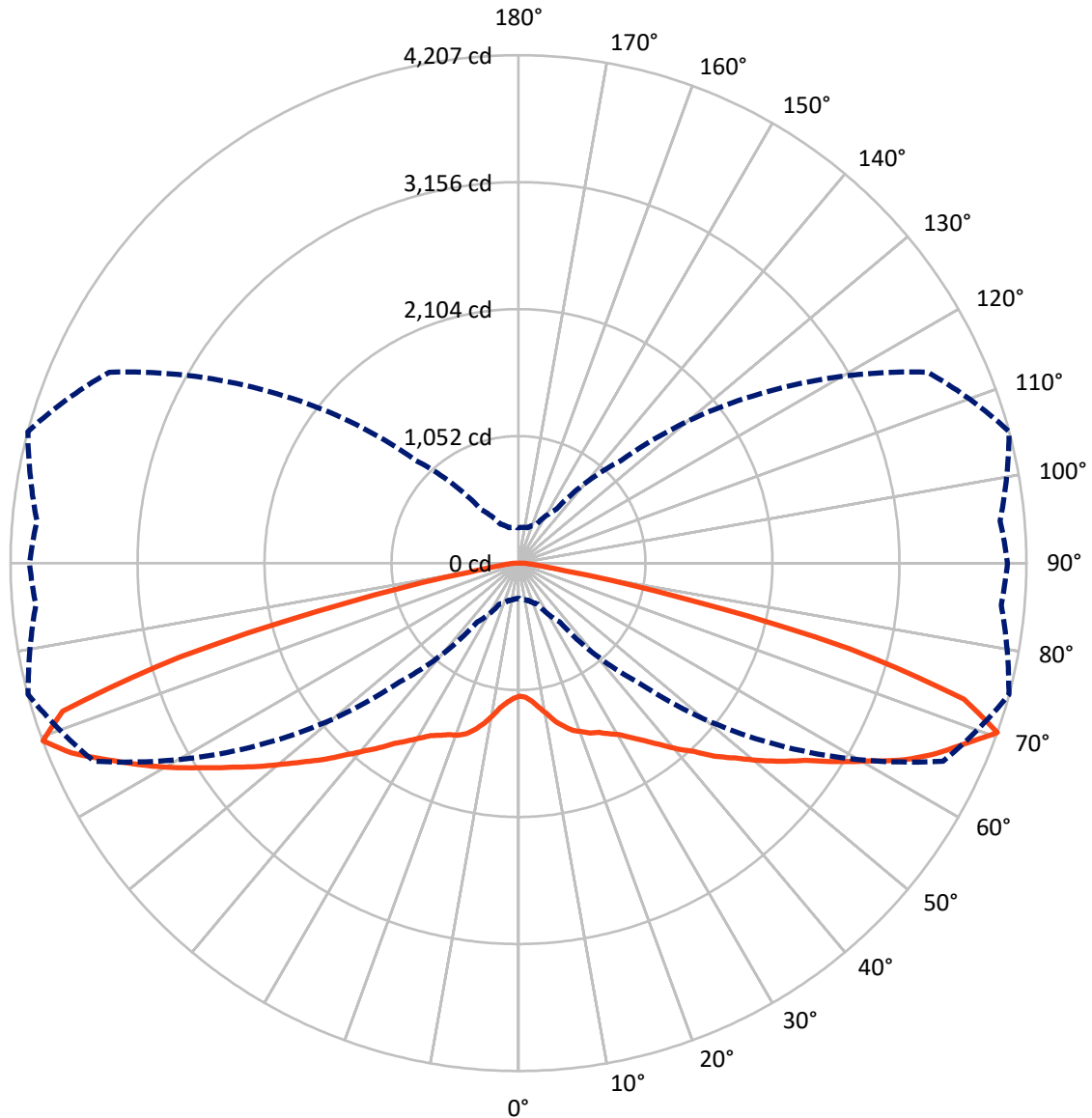
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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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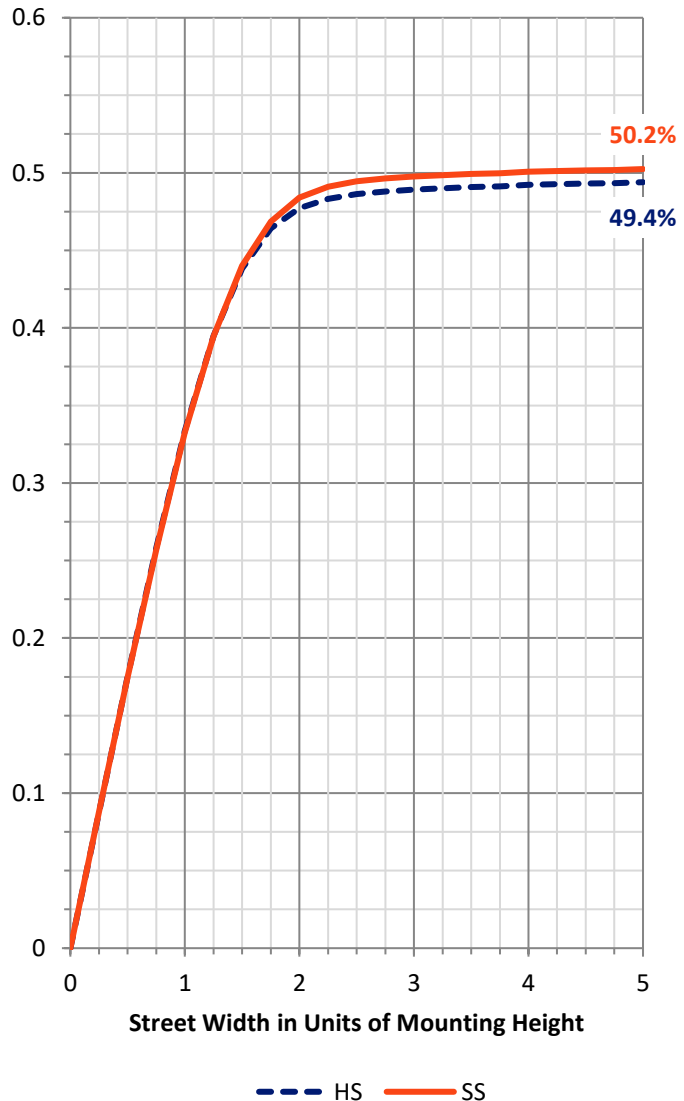
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5342.7	0.0	5342.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5419.3	0.0	5419.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	10762.0	0.0	10762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	1.0
10°-20°	373.5	3.5
20°-30°	723.2	6.7
30°-40°	1223.2	11.4
40°-50°	1951.4	18.1
50°-60°	2671.0	24.8
60°-70°	2517.6	23.4
70°-80°	1109.1	10.3
80°-90°	83.4	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°	10762.0	100.0
0°-180°	10762.0	100.0

Coefficient of Utilization



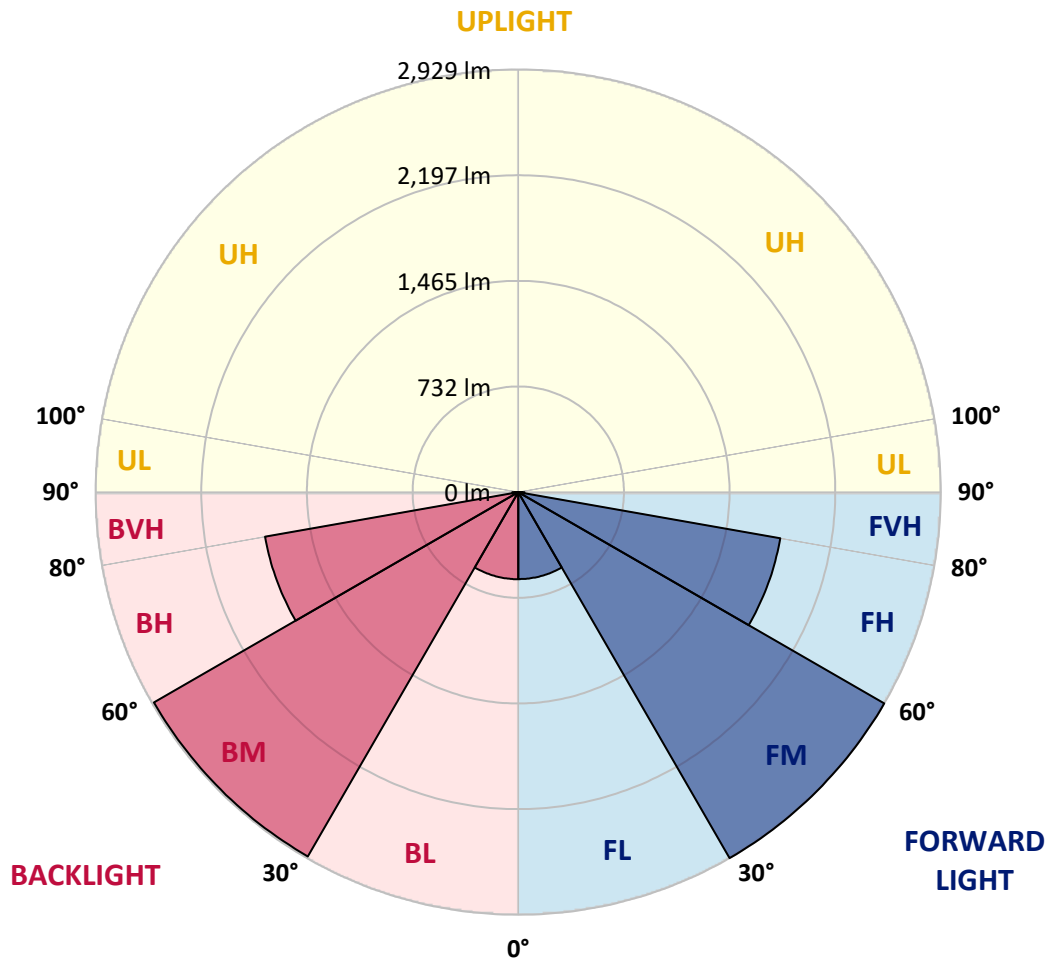
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.8	5.6			
FM (30°-60°)	2929.3	27.2			
FH (60°-80°)	1844.5	17.1			G2/5000
FVH (80°-90°)	42.6	0.4			G1/100
BL (0°-30°)	603.5	5.6	B2/1000		
BM (30°-60°)	2916.2	27.1	B3/5000		
BH (60°-80°)	1782.2	16.6	B3/2500		G3/2500
BVH (80°-90°)	40.8	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°	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0
2.5°	1095.1	1095.1	1093.9	1099.7	1105.5	1107.8	1112.5	1113.6	1120.6	1114.8	1126.4
5°	1091.6	1090.4	1099.7	1113.6	1113.6	1128.7	1138.0	1150.7	1154.2	1161.2	1163.5
7.5°	1115.9	1113.6	1109.0	1124.1	1136.8	1160.0	1172.8	1194.8	1202.9	1212.2	1222.7
10°	1131.0	1131.0	1126.4	1153.1	1164.7	1196.0	1223.8	1245.9	1277.2	1287.6	1288.8
12.5°	1133.3	1136.8	1150.7	1185.5	1218.0	1258.6	1279.5	1321.3	1352.6	1372.3	1379.3
15°	1168.1	1161.2	1176.3	1223.8	1271.4	1307.3	1344.5	1374.6	1419.9	1445.4	1461.6
17.5°	1199.5	1192.5	1220.3	1277.2	1325.9	1381.6	1414.1	1446.5	1479.0	1502.2	1503.4
20°	1249.3	1255.1	1279.5	1341.0	1404.8	1453.5	1490.6	1496.4	1512.7	1546.3	1540.5
22.5°	1310.8	1306.2	1357.2	1424.5	1494.1	1534.7	1555.6	1540.5	1532.4	1568.3	1576.5
25°	1372.3	1386.2	1432.6	1495.3	1578.8	1633.3	1639.1	1597.3	1567.2	1579.9	1576.5
27.5°	1466.3	1468.6	1517.3	1591.5	1676.2	1723.8	1720.3	1661.1	1603.1	1604.3	1606.6
30°	1586.9	1575.3	1628.7	1695.9	1779.5	1822.4	1828.2	1743.5	1665.8	1642.6	1648.4
32.5°	1702.9	1716.8	1763.2	1839.8	1901.3	1925.6	1912.9	1837.5	1736.5	1705.2	1708.7
35°	1851.4	1849.1	1912.9	1977.8	2024.2	2028.9	2018.4	1908.2	1813.1	1772.5	1756.3
37.5°	2010.3	2031.2	2073.0	2126.3	2175.0	2177.4	2120.5	2032.4	1915.2	1847.9	1867.6
40°	2187.8	2211.0	2241.2	2318.9	2354.8	2317.7	2259.7	2140.2	2018.4	1959.3	1968.6
42.5°	2344.4	2354.8	2416.3	2508.0	2525.4	2509.1	2423.3	2278.3	2136.8	2071.8	2076.4
45°	2488.2	2502.2	2582.2	2664.6	2705.2	2677.3	2577.6	2439.5	2274.8	2219.1	2197.1
47.5°	2620.5	2648.3	2726.0	2810.7	2873.4	2875.7	2752.7	2585.7	2411.7	2338.6	2337.4
50°	2709.8	2750.4	2827.0	2923.2	3014.9	3050.9	2927.9	2748.1	2561.3	2483.6	2475.5
52.5°	2758.5	2800.3	2876.8	3026.5	3128.6	3184.3	3126.3	2900.0	2736.5	2655.3	2642.5
55°	2699.4	2727.2	2852.5	3062.5	3220.2	3311.9	3273.6	3110.0	2910.5	2844.4	2856.0
57.5°	2447.6	2505.6	2659.9	2922.1	3217.9	3442.9	3439.5	3308.4	3111.2	3048.5	3050.9
60°	2015.0	2063.7	2253.9	2620.5	3088.0	3496.3	3619.3	3500.9	3336.2	3263.1	3260.8
62.5°	1422.2	1483.7	1704.1	2104.3	2705.2	3422.1	3825.7	3743.4	3556.6	3503.3	3523.0
65°	795.8	832.9	1037.1	1399.0	2061.4	3013.7	3862.9	3995.1	3780.5	3699.3	3702.8
67.5°	425.7	439.6	534.8	734.3	1260.9	2323.5	3488.2	4140.1	4022.9	3882.6	3860.5
70°	292.3	297.0	321.3	375.8	596.3	1389.7	2630.9	3881.4	4205.1	4013.7	4050.8
72.5°	247.1	244.8	250.6	256.4	312.0	621.8	1544.0	2987.1	3969.6	3897.7	3883.7
75°	214.6	213.4	215.8	210.0	216.9	273.8	683.3	1861.8	2905.8	3243.4	3295.6
77.5°	177.5	178.6	179.8	174.0	171.7	181.0	274.9	817.8	1430.3	1578.8	1702.9
80°	134.6	136.9	146.2	140.4	131.1	132.2	162.4	273.8	410.6	372.4	384.0
82.5°	91.6	92.8	112.5	105.6	98.6	89.3	104.4	141.5	160.1	121.8	106.7
85°	65.0	63.8	73.1	67.3	62.6	45.2	62.6	80.0	96.3	60.3	54.5
87.5°	15.1	15.1	30.2	24.4	23.2	18.6	24.4	31.3	41.8	26.7	24.4
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°	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0	1102.0
2.5°	1122.9	1112.5	1112.5	1110.1	1100.9	1098.5	1090.4	1092.7	1086.9	1081.1
5°	1162.3	1148.4	1148.4	1128.7	1110.1	1107.8	1098.5	1098.5	1089.3	1091.6
7.5°	1216.9	1204.1	1183.2	1165.8	1140.3	1129.9	1112.5	1110.1	1107.8	1103.2
10°	1281.8	1265.6	1244.7	1208.7	1187.9	1168.1	1150.7	1126.4	1120.6	1121.7
12.5°	1370.0	1344.5	1299.2	1267.9	1241.2	1215.7	1190.2	1154.2	1146.1	1149.6
15°	1432.6	1400.1	1354.9	1343.3	1307.3	1276.0	1234.3	1193.7	1179.7	1176.3
17.5°	1483.7	1457.0	1430.3	1412.9	1383.9	1345.6	1287.6	1241.2	1209.9	1206.4
20°	1525.4	1490.6	1484.8	1495.3	1459.3	1433.8	1363.0	1306.2	1264.4	1247.0
22.5°	1550.9	1528.9	1545.1	1554.4	1552.1	1509.2	1436.1	1370.0	1317.8	1301.5
25°	1578.8	1553.3	1611.3	1642.6	1650.7	1579.9	1523.1	1436.1	1385.1	1374.6
27.5°	1592.7	1602.0	1669.3	1735.4	1729.6	1675.1	1598.5	1520.8	1480.2	1461.6
30°	1633.3	1648.4	1750.5	1824.7	1825.9	1772.5	1714.5	1626.3	1581.1	1573.0
32.5°	1706.4	1724.9	1834.0	1912.9	1926.8	1886.2	1828.2	1773.7	1727.3	1708.7
35°	1762.1	1809.6	1932.6	2004.5	2041.6	2017.3	1984.8	1928.0	1879.2	1863.0
37.5°	1842.1	1908.2	2026.6	2124.0	2165.8	2163.4	2139.1	2077.6	2037.0	2023.1
40°	1957.0	2023.1	2131.0	2259.7	2337.4	2334.0	2320.0	2272.5	2212.2	2205.2
42.5°	2078.8	2133.3	2273.6	2421.0	2532.3	2520.7	2483.6	2427.9	2386.2	2376.9
45°	2197.1	2281.8	2411.7	2600.8	2684.3	2713.3	2669.2	2574.1	2526.5	2520.7
47.5°	2345.6	2412.8	2575.2	2744.6	2868.7	2873.4	2798.0	2709.8	2622.8	2641.4
50°	2477.8	2567.1	2731.8	2917.4	3065.9	3012.6	2916.3	2806.1	2743.4	2719.1
52.5°	2619.3	2728.4	2919.8	3108.9	3191.2	3137.9	2981.3	2858.3	2763.2	2752.7
55°	2825.8	2882.6	3133.2	3278.2	3304.9	3192.4	2961.5	2787.5	2664.6	2634.4
57.5°	3035.8	3101.9	3321.1	3446.4	3418.6	3162.2	2833.9	2564.8	2403.6	2360.6
60°	3248.1	3329.3	3513.7	3628.5	3484.7	2954.6	2473.2	2126.3	1938.4	1900.1
62.5°	3484.7	3590.3	3755.0	3795.6	3288.7	2543.9	1962.8	1534.7	1344.5	1280.7
65°	3694.7	3802.5	4005.5	3760.8	2872.2	1897.8	1269.1	877.0	736.6	685.6
67.5°	3867.5	3989.3	4089.1	3328.1	2103.1	1111.3	661.2	461.7	409.5	390.9
70°	4004.4	4207.4	3741.1	2446.5	1201.8	541.7	357.3	303.9	297.0	292.3
72.5°	3884.9	3858.2	2793.3	1411.7	526.6	298.1	258.7	250.6	249.4	250.6
75°	3177.3	2833.9	1670.4	613.7	264.5	215.8	214.6	211.1	216.9	216.9
77.5°	1541.7	1347.9	698.3	263.3	174.0	169.4	175.2	175.2	175.2	175.2
80°	357.3	395.6	249.4	160.1	126.4	126.4	139.2	140.4	134.6	132.2
82.5°	121.8	162.4	136.9	100.9	83.5	94.0	105.6	107.9	89.3	90.5
85°	60.3	95.1	74.2	58.0	42.9	58.0	68.4	71.9	61.5	59.2
87.5°	27.8	41.8	27.8	19.7	15.1	20.9	19.7	16.2	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)