

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: P481428

Luminaire Tested: **IFLD-S-SA2B-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481428
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

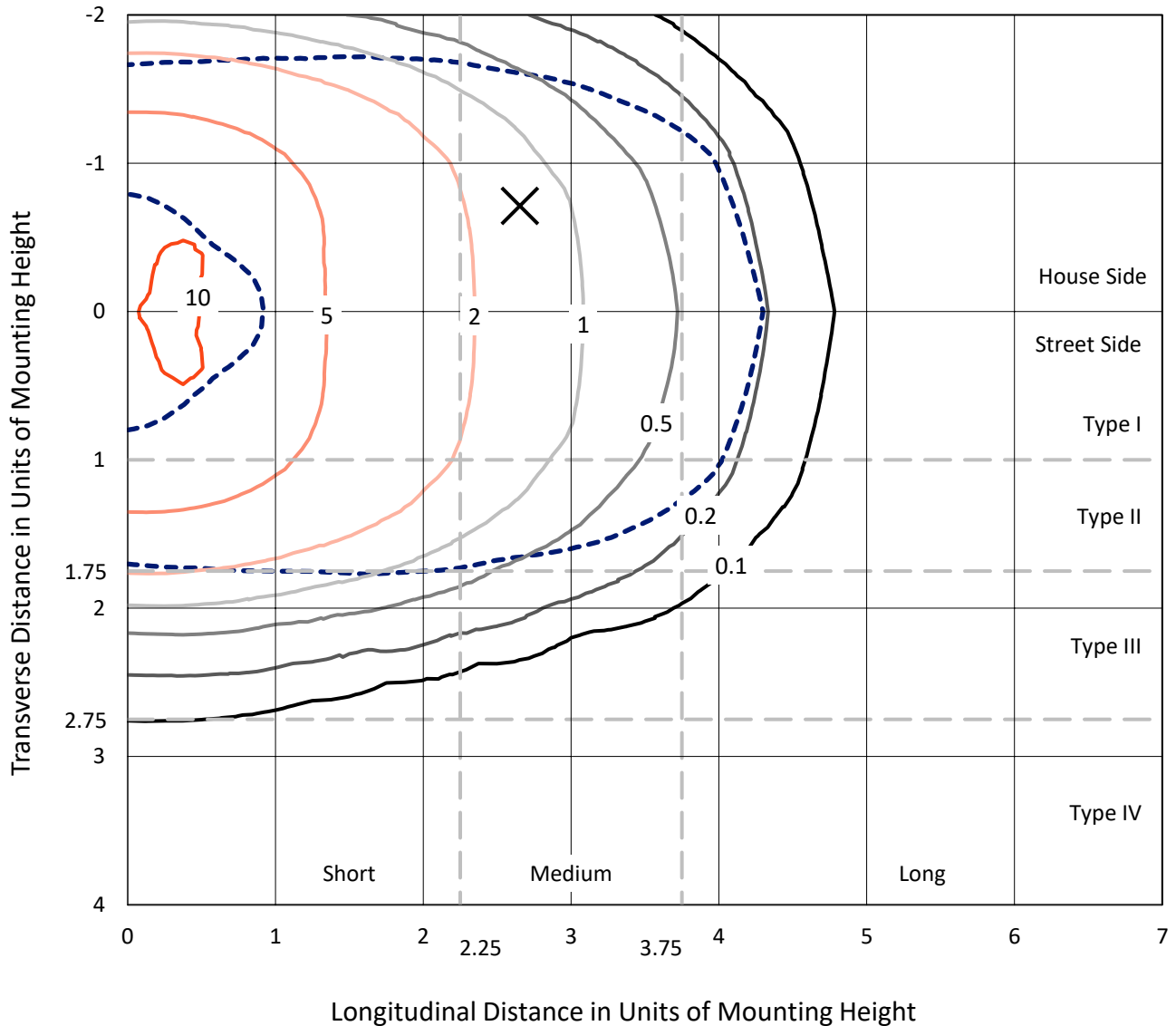
Lumens per Lamp: N/A
Luminaire Lumens: 9345 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

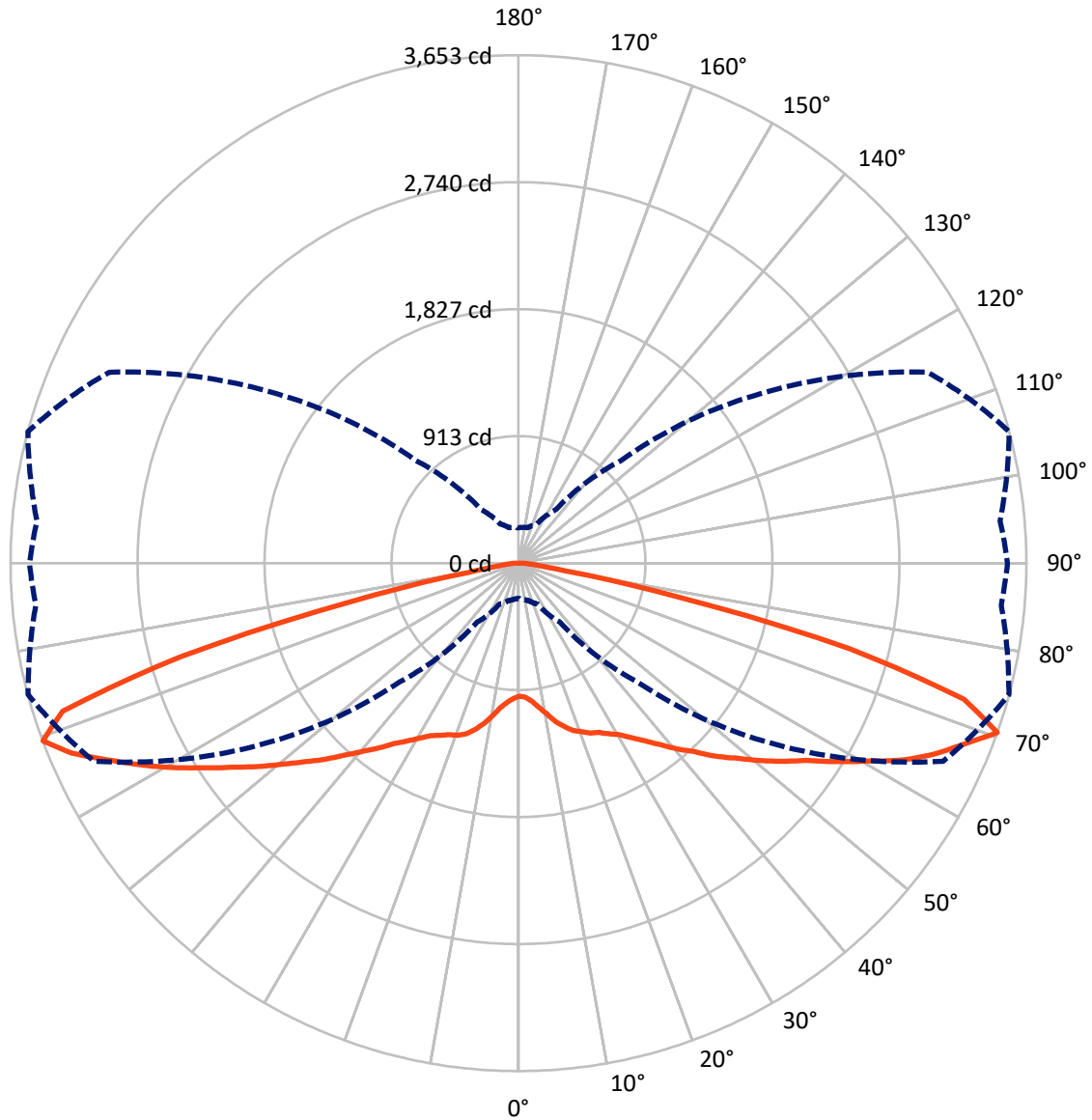
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 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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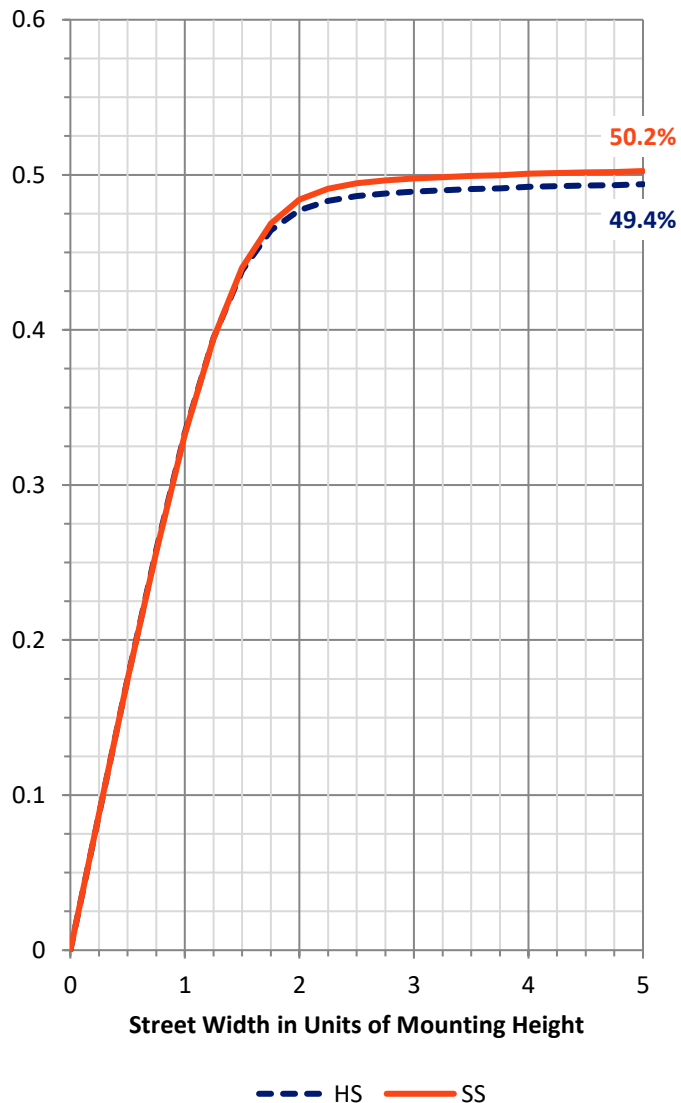
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4639.3	0.0	4639.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4705.7	0.0	4705.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	9345.0	0.0	9345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.0
10°-20°	324.3	3.5
20°-30°	628.0	6.7
30°-40°	1062.1	11.4
40°-50°	1694.4	18.1
50°-60°	2319.3	24.8
60°-70°	2186.1	23.4
70°-80°	963.0	10.3
80°-90°	72.5	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°	9345.0	100.0
0°-180°	9345.0	100.0

Coefficient of Utilization



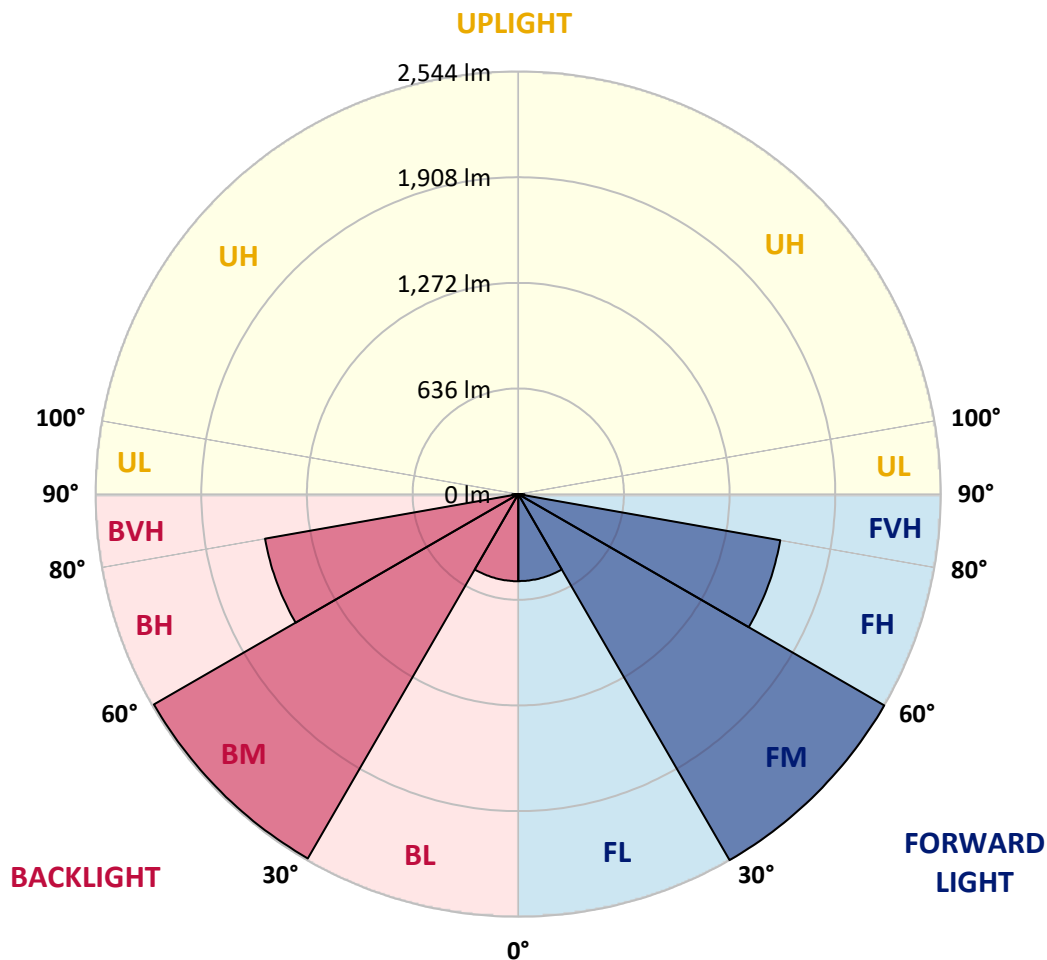
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.5	5.6			
FM (30°-60°)	2543.6	27.2			
FH (60°-80°)	1601.6	17.1			G1/1800
FVH (80°-90°)	37.0	0.4			G1/100
BL (0°-30°)	524.0	5.6	B2/1000		
BM (30°-60°)	2532.2	27.1	B3/5000		
BH (60°-80°)	1547.5	16.6	B3/2500		G3/2500
BVH (80°-90°)	35.5	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°	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9
2.5°	950.9	950.9	949.9	954.9	959.9	962.0	966.0	967.0	973.0	968.0	978.1
5°	947.9	946.8	954.9	967.0	967.0	980.1	988.1	999.2	1002.2	1008.3	1010.3
7.5°	969.0	967.0	963.0	976.1	987.1	1007.3	1018.4	1037.5	1044.6	1052.6	1061.7
10°	982.1	982.1	978.1	1001.2	1011.3	1038.5	1062.7	1081.8	1109.0	1118.1	1119.1
12.5°	984.1	987.1	999.2	1029.4	1057.6	1092.9	1111.0	1147.3	1174.5	1191.6	1197.7
15°	1014.3	1008.3	1021.4	1062.7	1104.0	1135.2	1167.4	1193.6	1232.9	1255.1	1269.2
17.5°	1041.5	1035.5	1059.7	1109.0	1151.3	1199.7	1227.9	1256.1	1284.3	1304.4	1305.4
20°	1084.8	1089.9	1111.0	1164.4	1219.8	1262.1	1294.4	1299.4	1313.5	1342.7	1337.7
22.5°	1138.2	1134.2	1178.5	1236.9	1297.4	1332.6	1350.8	1337.7	1330.6	1361.8	1368.9
25°	1191.6	1203.7	1244.0	1298.4	1370.9	1418.3	1423.3	1387.0	1360.8	1371.9	1368.9
27.5°	1273.2	1275.2	1317.5	1382.0	1455.5	1496.8	1493.8	1442.4	1392.1	1393.1	1395.1
30°	1378.0	1367.9	1414.2	1472.6	1545.2	1582.4	1587.5	1513.9	1446.5	1426.3	1431.3
32.5°	1478.7	1490.8	1531.1	1597.5	1650.9	1672.1	1661.0	1595.5	1507.9	1480.7	1483.7
35°	1607.6	1605.6	1661.0	1717.4	1757.7	1761.7	1752.7	1657.0	1574.4	1539.1	1525.0
37.5°	1745.6	1763.7	1800.0	1846.3	1888.7	1890.7	1841.3	1764.8	1663.0	1604.6	1621.7
40°	1899.7	1919.9	1946.1	2013.6	2044.8	2012.5	1962.2	1858.4	1752.7	1701.3	1709.4
42.5°	2035.7	2044.8	2098.2	2177.7	2192.9	2178.7	2104.2	1978.3	1855.4	1799.0	1803.0
45°	2160.6	2172.7	2242.2	2313.7	2349.0	2324.8	2238.2	2118.3	1975.3	1926.9	1907.8
47.5°	2275.4	2299.6	2367.1	2440.6	2495.0	2497.1	2390.3	2245.2	2094.1	2030.7	2029.7
50°	2353.0	2388.3	2454.7	2538.3	2617.9	2649.1	2542.4	2386.2	2224.1	2156.6	2149.5
52.5°	2395.3	2431.6	2498.1	2628.0	2716.6	2765.0	2714.6	2518.2	2376.2	2305.7	2294.6
55°	2343.9	2368.1	2476.9	2659.2	2796.2	2875.8	2842.5	2700.5	2527.3	2469.9	2479.9
57.5°	2125.4	2175.7	2309.7	2537.3	2794.2	2989.6	2986.6	2872.8	2701.5	2647.1	2649.1
60°	1749.6	1792.0	1957.1	2275.4	2681.4	3035.9	3142.7	3040.0	2896.9	2833.5	2831.5
62.5°	1234.9	1288.3	1479.7	1827.2	2349.0	2971.5	3322.0	3250.5	3088.3	3042.0	3059.1
65°	691.0	723.2	900.5	1214.8	1789.9	2616.9	3354.2	3469.1	3282.7	3212.2	3215.2
67.5°	369.7	381.8	464.4	637.6	1094.9	2017.6	3028.9	3595.0	3493.3	3371.4	3352.2
70°	253.8	257.9	279.0	326.4	517.7	1206.7	2284.5	3370.4	3651.4	3485.2	3517.4
72.5°	214.6	212.5	217.6	222.6	271.0	539.9	1340.7	2593.7	3446.9	3384.5	3372.4
75°	186.3	185.3	187.4	182.3	188.4	237.7	593.3	1616.7	2523.2	2816.4	2861.7
77.5°	154.1	155.1	156.1	151.1	149.1	157.1	238.7	710.1	1242.0	1370.9	1478.7
80°	116.8	118.9	126.9	121.9	113.8	114.8	141.0	237.7	356.6	323.3	333.4
82.5°	79.6	80.6	97.7	91.7	85.6	77.6	90.7	122.9	139.0	105.8	92.7
85°	56.4	55.4	63.5	58.4	54.4	39.3	54.4	69.5	83.6	52.4	47.3
87.5°	13.1	13.1	26.2	21.2	20.1	16.1	21.2	27.2	36.3	23.2	21.2
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°	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9	956.9
2.5°	975.0	966.0	966.0	964.0	955.9	953.9	946.8	948.9	943.8	938.8
5°	1009.3	997.2	997.2	980.1	964.0	962.0	953.9	953.9	945.8	947.9
7.5°	1056.6	1045.6	1027.4	1012.3	990.2	981.1	966.0	964.0	962.0	957.9
10°	1113.0	1098.9	1080.8	1049.6	1031.5	1014.3	999.2	978.1	973.0	974.0
12.5°	1189.6	1167.4	1128.2	1101.0	1077.8	1055.6	1033.5	1002.2	995.2	998.2
15°	1244.0	1215.8	1176.5	1166.4	1135.2	1108.0	1071.7	1036.5	1024.4	1021.4
17.5°	1288.3	1265.1	1242.0	1226.9	1201.7	1168.4	1118.1	1077.8	1050.6	1047.6
20°	1324.6	1294.4	1289.3	1298.4	1267.2	1245.0	1183.6	1134.2	1097.9	1082.8
22.5°	1346.7	1327.6	1341.7	1349.8	1347.7	1310.5	1247.0	1189.6	1144.3	1130.2
25°	1370.9	1348.7	1399.1	1426.3	1433.4	1371.9	1322.6	1247.0	1202.7	1193.6
27.5°	1383.0	1391.1	1449.5	1506.9	1501.9	1454.5	1388.0	1320.5	1285.3	1269.2
30°	1418.3	1431.3	1520.0	1584.5	1585.5	1539.1	1488.8	1412.2	1372.9	1365.9
32.5°	1481.7	1497.8	1592.5	1661.0	1673.1	1637.8	1587.5	1540.1	1499.8	1483.7
35°	1530.1	1571.4	1678.1	1740.6	1772.8	1751.7	1723.5	1674.1	1631.8	1617.7
37.5°	1599.6	1657.0	1759.7	1844.3	1880.6	1878.6	1857.4	1804.0	1768.8	1756.7
40°	1699.3	1756.7	1850.4	1962.2	2029.7	2026.6	2014.6	1973.3	1920.9	1914.8
42.5°	1805.0	1852.4	1974.3	2102.2	2198.9	2188.8	2156.6	2108.2	2072.0	2063.9
45°	1907.8	1981.3	2094.1	2258.3	2330.8	2356.0	2317.8	2235.2	2193.9	2188.8
47.5°	2036.7	2095.1	2236.2	2383.2	2491.0	2495.0	2429.6	2353.0	2277.5	2293.6
50°	2151.6	2229.1	2372.1	2533.3	2662.2	2615.9	2532.3	2436.6	2382.2	2361.1
52.5°	2274.4	2369.1	2535.3	2699.5	2771.0	2724.7	2588.7	2481.9	2399.3	2390.3
55°	2453.7	2503.1	2720.7	2846.6	2869.7	2772.0	2571.6	2420.5	2313.7	2287.5
57.5°	2636.1	2693.5	2883.8	2992.6	2968.5	2745.8	2460.8	2227.1	2087.1	2049.8
60°	2820.4	2890.9	3051.1	3150.8	3025.9	2565.5	2147.5	1846.3	1683.2	1649.9
62.5°	3025.9	3117.5	3260.6	3295.8	2855.6	2209.0	1704.3	1332.6	1167.4	1112.0
65°	3208.2	3301.9	3478.1	3265.6	2494.0	1647.9	1102.0	761.5	639.6	595.3
67.5°	3358.3	3464.0	3550.7	2889.9	1826.2	965.0	574.2	400.9	355.6	339.5
70°	3477.1	3653.4	3248.5	2124.4	1043.5	470.4	310.2	263.9	257.9	253.8
72.5°	3373.4	3350.2	2425.5	1225.9	457.3	258.9	224.6	217.6	216.6	217.6
75°	2758.9	2460.8	1450.5	532.9	229.7	187.4	186.3	183.3	188.4	188.4
77.5°	1338.7	1170.5	606.4	228.7	151.1	147.1	152.1	152.1	152.1	152.1
80°	310.2	343.5	216.6	139.0	109.8	109.8	120.9	121.9	116.8	114.8
82.5°	105.8	141.0	118.9	87.6	72.5	81.6	91.7	93.7	77.6	78.6
85°	52.4	82.6	64.5	50.4	37.3	50.4	59.4	62.5	53.4	51.4
87.5°	24.2	36.3	24.2	17.1	13.1	18.1	17.1	14.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)