

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: P479049

Luminaire Tested: **IFLD-S-SA2B-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479049
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

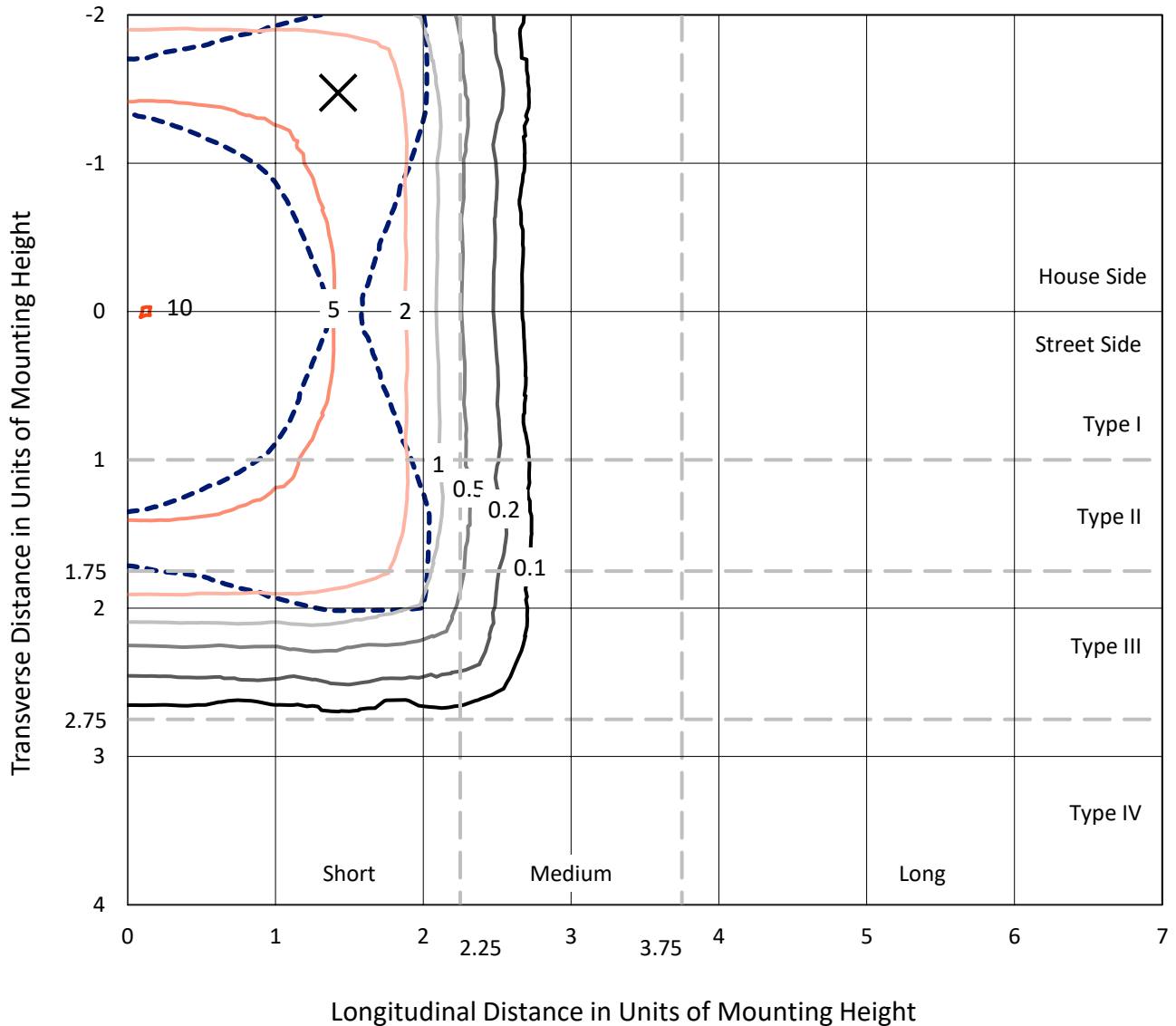
Lumens per Lamp: N/A
Luminaire Lumens: 8371.2 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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

REPORT NUMBER: P479049
 CATALOG NUMBER: IFLD-S-SA2B-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

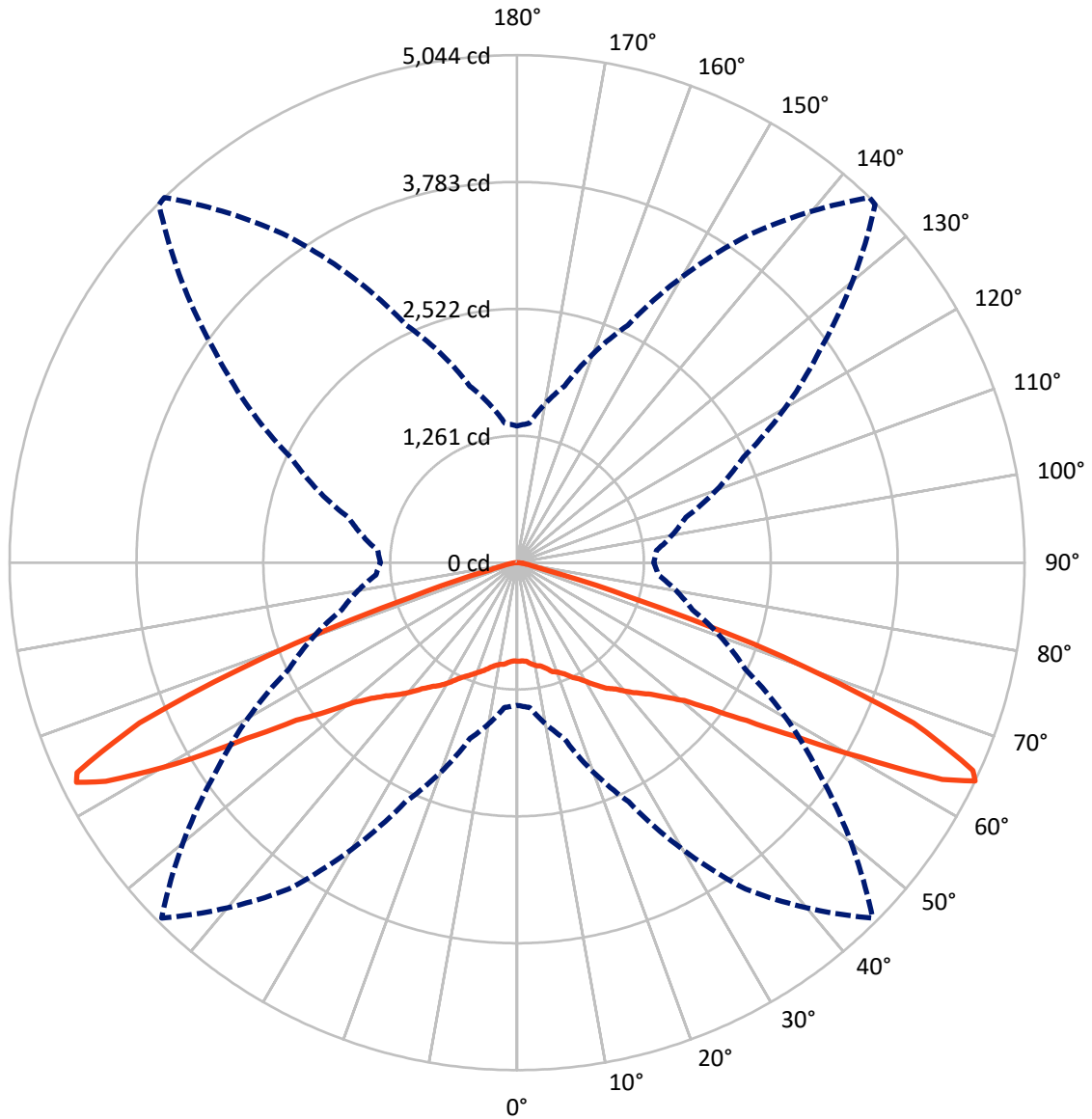
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479049
CATALOG NUMBER: IFLD-S-SA2B-827-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P479049

CATALOG NUMBER: IFLD-S-SA2B-827-U-5NQ

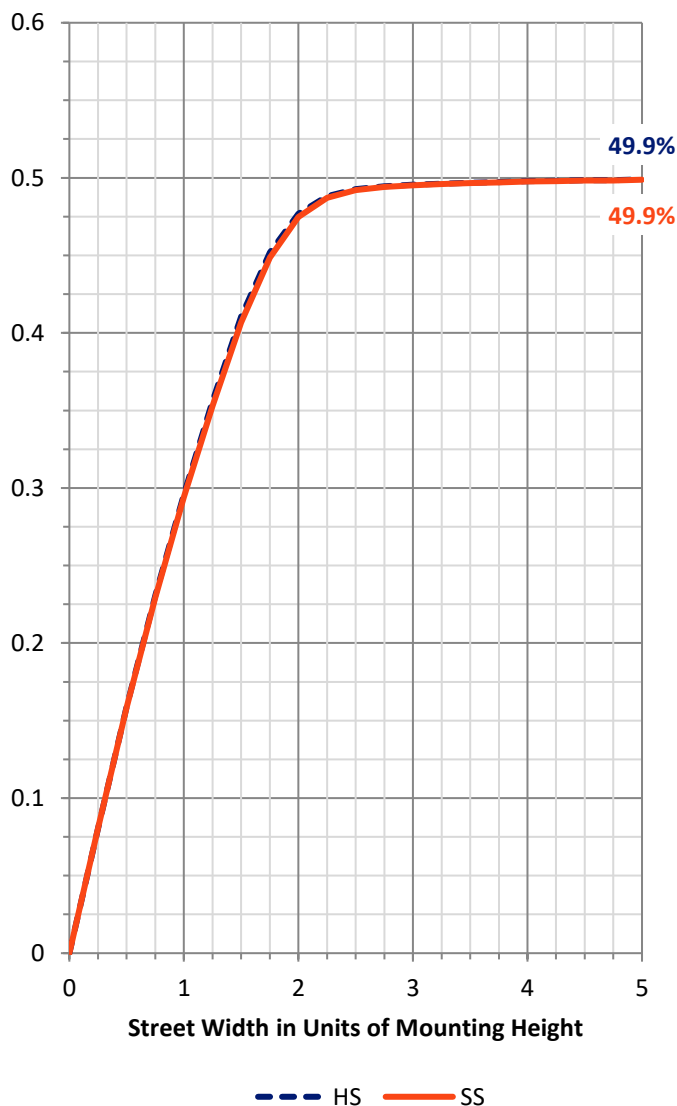
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4189.6	0.0	4189.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4181.6	0.0	4181.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	8371.2	0.0	8371.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	1.2
10°-20°	310.4	3.7
20°-30°	583.3	7.0
30°-40°	962.0	11.5
40°-50°	1504.5	18.0
50°-60°	2430.9	29.0
60°-70°	2188.9	26.1
70°-80°	259.3	3.1
80°-90°	35.5	0.4
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°	8371.2	100.0
0°-180°	8371.2	100.0

Coefficient of Utilization



REPORT NUMBER: P479049

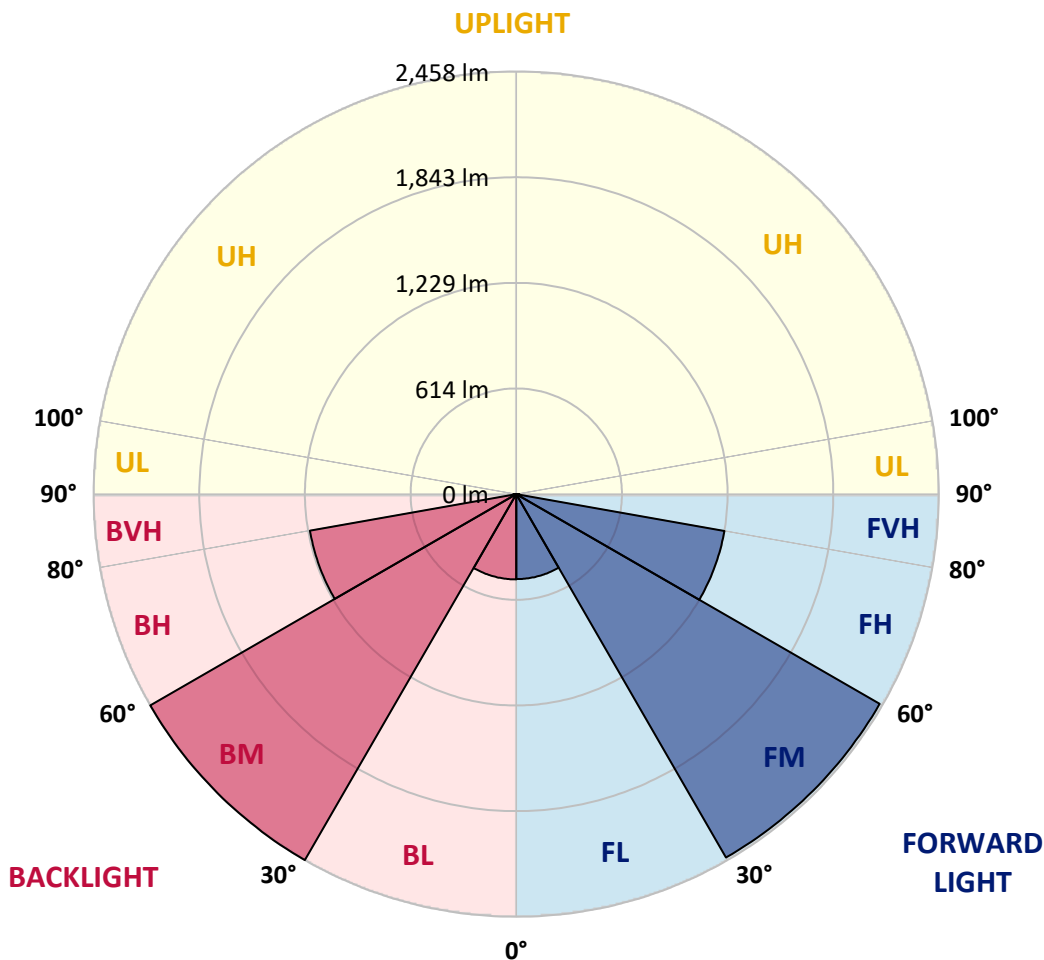
CATALOG NUMBER: IFLD-S-SA2B-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.1	5.9			
FM (30°-60°)	2439.9	29.1			
FH (60°-80°)	1229.4	14.7			G1/1800
FVH (80°-90°)	18.2	0.2			G1/100
BL (0°-30°)	496.0	5.9	B1/500		
BM (30°-60°)	2457.5	29.4	B2/2500		
BH (60°-80°)	1218.8	14.6	B3/2500		G1/1800
BVH (80°-90°)	17.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P479049

CATALOG NUMBER: IFLD-S-SA2B-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1
2.5°	968.6	970.5	987.8	981.1	986.8	976.3	983.9	1000.2	981.1	995.4	1000.2
5°	979.1	982.0	982.0	988.7	992.6	990.6	995.4	988.7	1007.0	999.3	1010.8
7.5°	1017.5	1012.7	1005.0	1010.8	1011.8	1016.6	1021.4	1030.0	1027.1	1020.4	1031.9
10°	1024.2	1020.4	1031.9	1032.9	1028.1	1024.2	1029.0	1029.0	1037.7	1039.6	1039.6
12.5°	1035.8	1039.6	1038.6	1046.3	1047.3	1044.4	1052.1	1066.5	1062.6	1065.5	1058.8
15°	1079.9	1075.1	1074.2	1081.8	1094.3	1076.1	1089.5	1088.6	1084.7	1090.5	1075.1
17.5°	1118.3	1103.0	1109.7	1122.2	1117.4	1121.2	1138.5	1123.1	1127.0	1120.2	1115.4
20°	1151.9	1139.4	1140.4	1145.2	1145.2	1156.7	1163.4	1157.7	1153.8	1152.9	1154.8
22.5°	1189.4	1175.0	1175.9	1196.1	1202.8	1199.0	1194.2	1203.8	1205.7	1198.0	1206.6
25°	1217.2	1232.6	1237.4	1247.0	1232.6	1243.1	1239.3	1257.5	1269.0	1253.7	1264.2
27.5°	1290.1	1283.4	1295.9	1294.9	1306.5	1295.9	1302.6	1308.4	1313.2	1314.1	1309.3
30°	1355.4	1358.3	1345.8	1379.4	1352.5	1369.8	1381.3	1384.2	1390.0	1390.0	1375.6
32.5°	1424.5	1418.8	1438.9	1431.3	1426.5	1439.9	1427.4	1466.8	1443.7	1457.2	1440.9
35°	1502.3	1502.3	1510.0	1531.1	1502.3	1493.7	1516.7	1533.0	1533.0	1509.0	1514.8
37.5°	1589.6	1582.0	1591.6	1618.4	1596.4	1567.6	1609.8	1616.5	1611.7	1605.0	1593.5
40°	1651.1	1649.2	1668.4	1703.9	1672.2	1666.4	1674.1	1692.4	1698.1	1704.8	1689.5
42.5°	1754.8	1763.4	1819.1	1810.4	1784.5	1764.4	1762.4	1830.6	1814.3	1797.0	1788.4
45°	1908.3	1900.7	1929.5	1930.4	1896.8	1852.7	1862.3	1924.7	1952.5	1914.1	1928.5
47.5°	2030.3	2034.1	2054.3	2095.5	2017.8	1971.7	2007.2	2108.0	2099.4	2085.0	2098.4
50°	2193.4	2210.7	2274.1	2259.7	2190.6	2133.9	2211.7	2306.7	2317.3	2264.5	2254.9
52.5°	2419.0	2445.9	2480.5	2492.0	2425.7	2405.6	2410.4	2528.5	2502.5	2451.7	2419.0
55°	2616.8	2629.3	2692.6	2787.6	2782.8	2685.9	2741.6	2785.7	2680.1	2575.5	2584.1
57.5°	2701.2	2707.0	2883.6	3073.7	3187.0	3209.1	3145.7	2996.9	2745.4	2543.8	2531.3
60°	2491.0	2545.7	2758.8	3187.9	3705.3	3960.7	3539.3	3020.9	2592.8	2348.0	2329.8
62.5°	1990.9	1993.8	2310.6	2961.4	4027.9	4696.9	3690.0	2795.3	2185.8	1908.3	1835.4
64°	1417.8	1444.7	1808.5	2621.6	3960.7	4996.4	3671.7	2500.6	1801.8	1408.2	1357.3
65°	1017.5	1055.0	1406.3	2276.0	3803.2	4960.9	3617.0	2247.2	1457.2	1075.1	1023.3
67.5°	374.4	389.7	552.0	1138.5	2731.0	4227.5	2866.4	1235.4	640.3	456.0	409.9
70°	173.7	174.7	204.5	376.3	1194.2	2827.0	1367.9	463.6	240.9	191.0	177.6
72.5°	127.7	130.6	143.0	173.7	351.3	1197.0	449.2	190.1	141.1	124.8	121.9
75°	103.7	105.6	109.4	125.8	162.2	320.6	182.4	131.5	112.3	100.8	97.0
77.5°	79.7	79.7	88.3	96.0	107.5	149.7	121.0	104.6	91.2	79.7	76.8
80°	57.6	58.6	69.1	74.9	73.0	98.9	87.4	86.4	74.9	62.4	57.6
82.5°	33.6	36.5	49.9	53.8	51.8	58.6	63.4	67.2	58.6	43.2	39.4
85°	19.2	20.2	28.8	29.8	29.8	27.8	36.5	40.3	39.4	26.9	24.0
87.5°	5.8	5.8	7.7	7.7	8.6	9.6	14.4	17.3	19.2	13.4	12.5
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: P479049
 CATALOG NUMBER: IFLD-S-SA2B-827-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1	980.1
2.5°	995.4	981.1	982.0	985.8	973.4	978.2	992.6	982.0	979.1	973.4	970.5
5°	990.6	1006.0	1000.2	1002.2	999.3	985.8	983.9	992.6	997.4	988.7	1006.0
7.5°	1024.2	1017.5	1009.8	1012.7	1006.0	1017.5	1025.2	1007.9	1016.6	1011.8	1002.2
10°	1043.4	1031.0	1036.7	1034.8	1030.0	1041.5	1033.8	1031.9	1024.2	1013.7	1029.0
12.5°	1050.2	1064.6	1074.2	1057.8	1060.7	1055.0	1050.2	1050.2	1041.5	1038.6	1041.5
15°	1079.9	1092.4	1088.6	1101.0	1084.7	1090.5	1096.2	1081.8	1089.5	1068.4	1084.7
17.5°	1134.6	1124.1	1137.5	1121.2	1127.0	1138.5	1120.2	1120.2	1126.0	1114.5	1100.1
20°	1169.2	1164.4	1159.6	1160.6	1151.0	1161.5	1155.8	1152.9	1144.2	1148.1	1155.8
22.5°	1201.8	1195.1	1197.0	1199.9	1206.6	1201.8	1199.0	1201.8	1180.7	1199.9	1173.0
25°	1242.2	1260.4	1254.6	1267.1	1247.9	1260.4	1259.4	1241.2	1252.7	1245.0	1239.3
27.5°	1309.3	1299.7	1308.4	1293.0	1306.5	1307.4	1295.9	1326.6	1313.2	1311.3	1307.4
30°	1395.7	1389.0	1383.3	1374.6	1385.2	1376.5	1386.1	1389.0	1376.5	1366.9	1348.7
32.5°	1444.7	1462.9	1469.7	1448.5	1449.5	1454.3	1445.7	1437.0	1444.7	1447.6	1444.7
35°	1513.8	1531.1	1534.9	1518.6	1510.0	1534.0	1516.7	1545.5	1520.5	1521.5	1495.6
37.5°	1594.4	1599.2	1631.9	1613.6	1606.0	1594.4	1626.1	1622.3	1628.0	1582.0	1605.0
40°	1685.6	1702.9	1721.2	1675.1	1674.1	1684.7	1682.8	1704.8	1694.3	1687.6	1671.2
42.5°	1785.5	1822.0	1824.8	1794.1	1774.9	1773.0	1782.6	1831.5	1832.5	1788.4	1769.2
45°	1917.9	1958.3	1947.7	1888.2	1867.1	1864.2	1911.2	1932.3	1950.6	1933.3	1917.0
47.5°	2083.1	2109.9	2102.3	2047.5	1979.4	1998.6	2044.7	2110.9	2091.7	2068.7	2049.5
50°	2259.7	2291.4	2275.0	2220.3	2155.0	2155.0	2211.7	2296.2	2290.4	2245.3	2228.0
52.5°	2455.5	2501.6	2539.0	2461.3	2406.5	2415.2	2504.5	2535.2	2520.8	2489.1	2474.7
55°	2601.4	2689.7	2766.5	2770.4	2773.2	2772.3	2795.3	2826.0	2723.3	2672.5	2620.6
57.5°	2565.9	2732.9	2995.9	3174.5	3227.3	3255.1	3247.4	3105.4	2862.5	2695.5	2712.8
60°	2312.5	2585.1	3009.4	3582.5	3966.4	3928.0	3787.9	3226.3	2785.7	2503.5	2468.0
62.5°	1845.0	2173.3	2783.8	3697.7	4755.5	4744.0	4010.6	2947.0	2321.1	1964.0	1941.9
64°	1390.0	1735.6	2483.3	3667.9	5032.0	5043.5	3954.0	2603.3	1816.2	1390.0	1356.4
65°	1063.6	1384.2	2188.6	3606.5	4972.4	4979.2	3796.5	2248.2	1380.4	986.8	950.3
67.5°	423.3	589.4	1187.4	2734.8	4269.8	4251.5	2708.9	1087.6	528.0	343.7	336.9
70°	180.5	224.6	416.6	1295.9	2858.7	2805.9	1166.3	353.3	195.8	164.1	163.2
72.5°	123.8	137.3	178.5	400.3	1188.4	1160.6	332.1	164.1	133.4	122.9	122.9
75°	99.8	109.4	129.6	168.0	314.9	303.3	156.5	121.0	106.6	98.9	97.9
77.5°	77.8	87.4	101.8	116.2	144.0	143.0	104.6	91.2	82.6	76.8	74.9
80°	61.4	71.0	80.6	82.6	94.1	92.2	71.0	72.0	67.2	55.7	54.7
82.5°	42.2	57.6	64.3	58.6	55.7	55.7	50.9	50.9	47.0	34.6	31.7
85°	25.9	38.4	40.3	34.6	25.9	25.9	27.8	26.9	25.0	18.2	17.3
87.5°	13.4	18.2	16.3	13.4	8.6	8.6	7.7	5.8	5.8	4.8	4.8
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)