

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: P478699

Luminaire Tested: **IFLD-S-SA2C-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478699
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

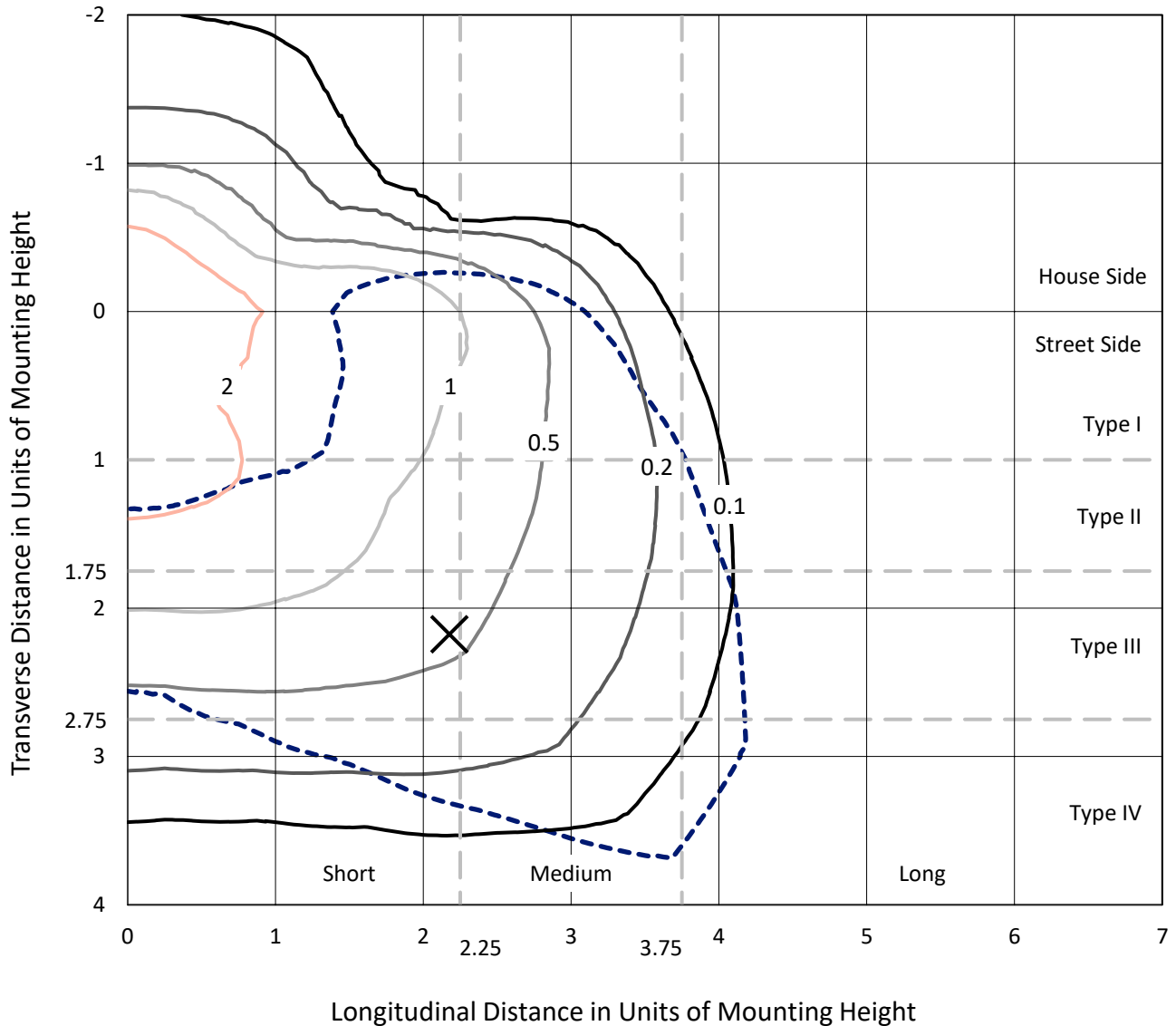
Lumens per Lamp: N/A
Luminaire Lumens: 11415.7 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P478699
 CATALOG NUMBER: IFLD-S-SA2C-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

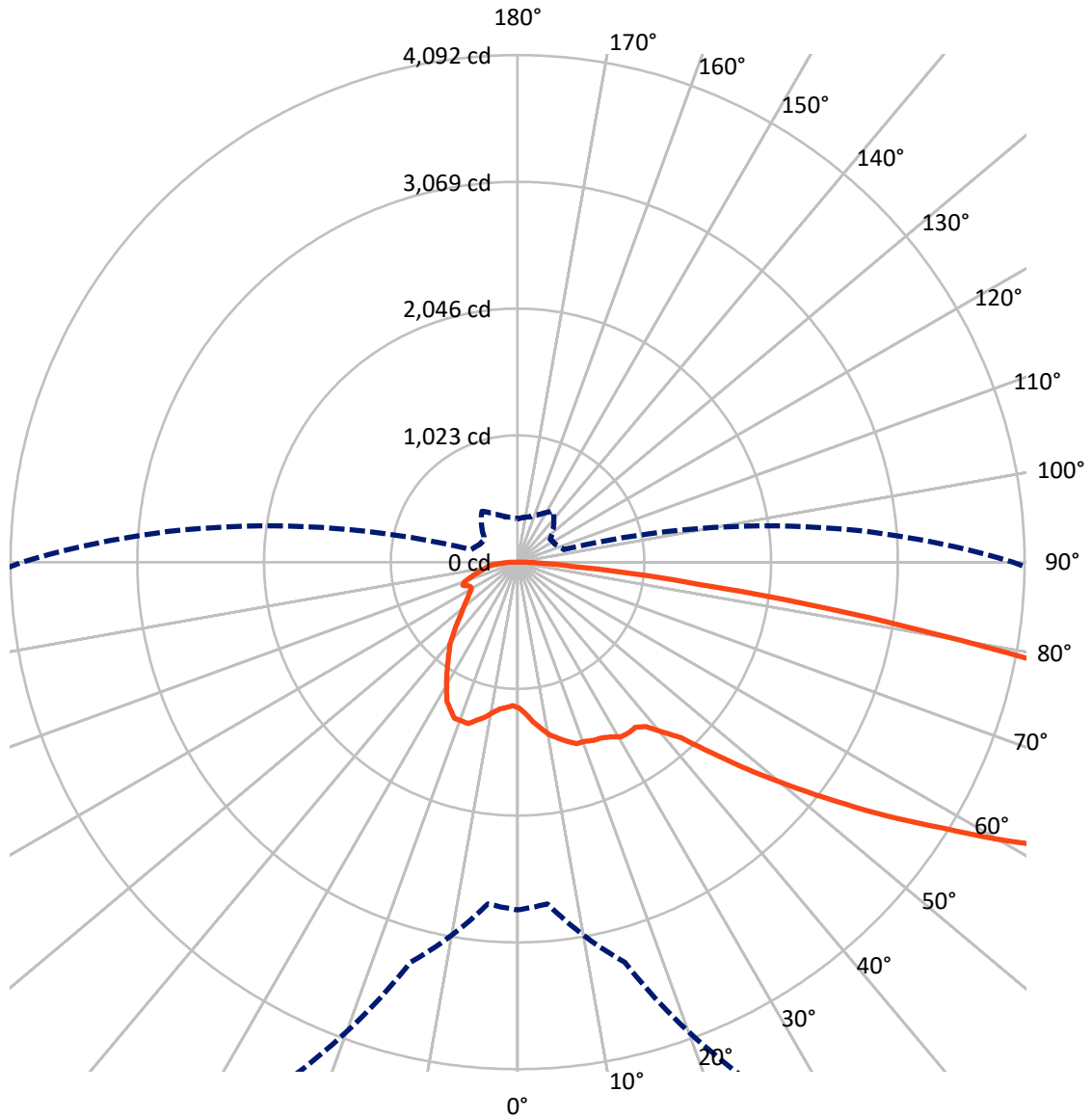
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P478699
CATALOG NUMBER: IFLD-S-SA2C-830-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478699
 CATALOG NUMBER: IFLD-S-SA2C-830-U-T4W

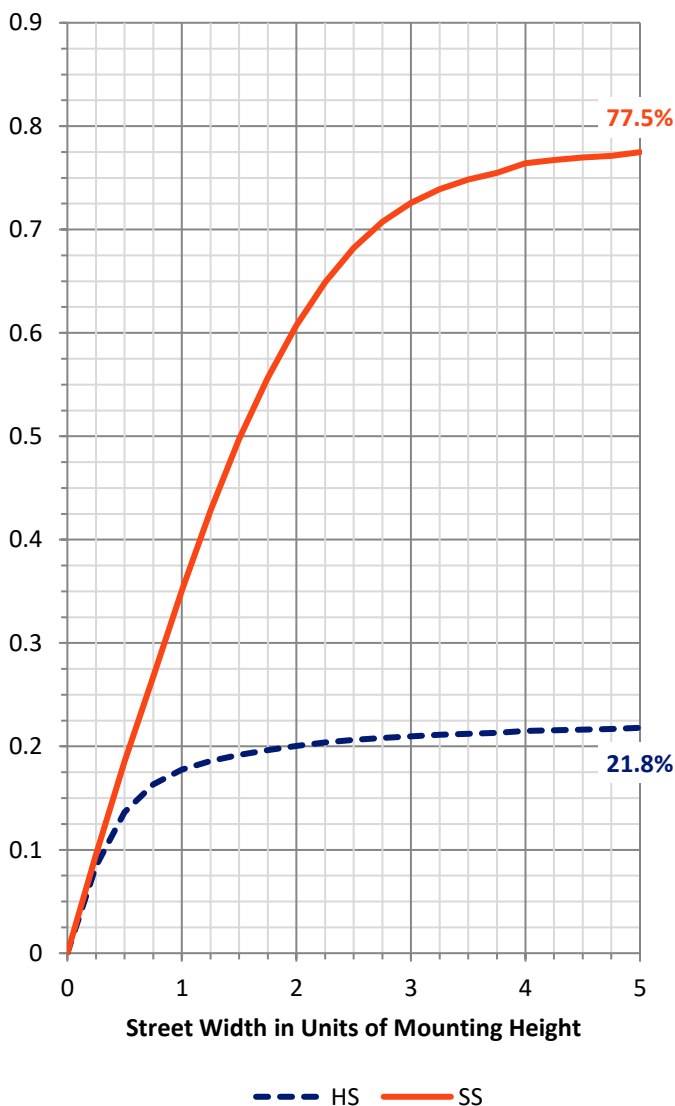
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2541.2	0.0	2541.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8874.5	0.0	8874.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	11415.7	0.0	11415.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	1.1
10°-20°	400.2	3.5
20°-30°	675.9	5.9
30°-40°	935.3	8.2
40°-50°	1337.9	11.7
50°-60°	2157.9	18.9
60°-70°	3182.5	27.9
70°-80°	2311.1	20.2
80°-90°	294.6	2.6
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°	11415.7	100.0
0°-180°	11415.7	100.0

Coefficient of Utilization



REPORT NUMBER: P478699

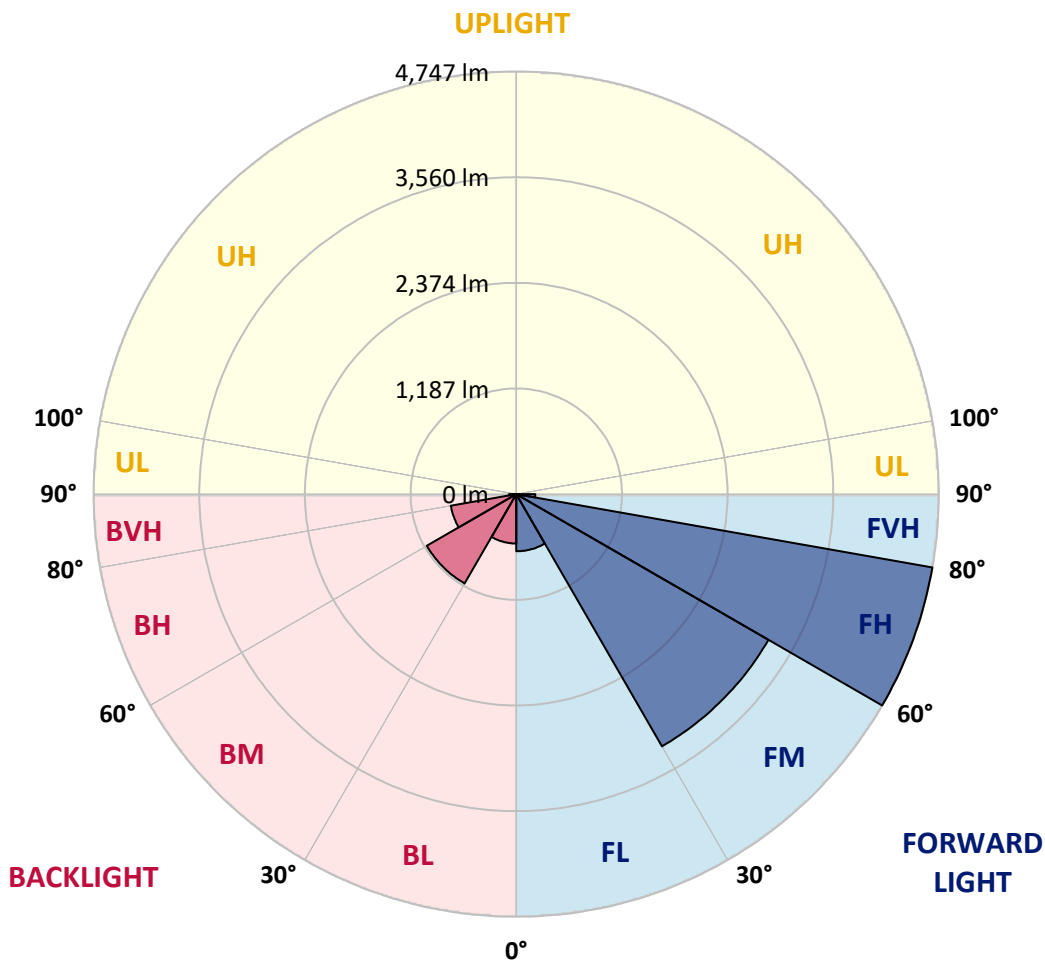
CATALOG NUMBER: IFLD-S-SA2C-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.6	5.6			
FM (30°-60°)	3271.3	28.7			
FH (60°-80°)	4747.2	41.6			G2/5000
FVH (80°-90°)	214.4	1.9			G2/225
BL (0°-30°)	554.9	4.9	B2/1000		
BM (30°-60°)	1159.7	10.2	B2/2500		
BH (60°-80°)	746.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	80.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P478699

CATALOG NUMBER: IFLD-S-SA2C-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6
2.5°	1238.4	1245.8	1238.4	1237.2	1224.9	1216.2	1223.6	1212.5	1200.2	1195.3	1184.2
5°	1351.6	1352.9	1339.3	1340.6	1314.7	1287.6	1292.6	1259.3	1223.6	1210.1	1187.9
7.5°	1467.4	1453.8	1434.1	1428.0	1387.3	1357.8	1354.1	1324.6	1269.2	1238.4	1207.6
10°	1542.5	1547.4	1515.4	1488.3	1453.8	1418.1	1416.9	1361.5	1329.5	1283.9	1244.5
12.5°	1608.9	1610.2	1583.1	1540.0	1496.9	1452.6	1458.7	1434.1	1380.0	1336.9	1297.5
15°	1660.6	1653.2	1623.7	1584.3	1538.8	1504.3	1500.6	1479.7	1434.1	1398.4	1333.2
17.5°	1675.4	1671.7	1642.2	1600.3	1556.0	1530.1	1540.0	1505.5	1487.1	1455.1	1392.3
20°	1647.1	1638.5	1633.5	1586.8	1554.8	1552.3	1543.7	1551.1	1520.3	1490.7	1445.2
22.5°	1595.4	1591.7	1589.2	1552.3	1537.5	1548.6	1563.4	1574.5	1569.5	1541.2	1489.5
25°	1542.5	1559.7	1543.7	1526.4	1547.4	1575.7	1572.0	1607.7	1607.7	1599.1	1556.0
27.5°	1579.4	1568.3	1556.0	1547.4	1554.8	1599.1	1596.6	1639.7	1655.7	1639.7	1590.5
30°	1671.7	1660.6	1624.9	1586.8	1576.9	1624.9	1637.2	1675.4	1682.8	1643.4	1601.5
32.5°	1845.3	1839.1	1782.5	1670.5	1610.2	1637.2	1643.4	1686.5	1680.3	1655.7	1638.5
35°	2102.6	2081.6	2002.8	1813.3	1680.3	1653.2	1637.2	1671.7	1695.1	1682.8	1666.8
37.5°	2384.5	2361.1	2263.8	2023.8	1807.1	1696.3	1684.0	1712.3	1739.4	1733.3	1700.0
40°	2654.1	2654.1	2566.7	2287.2	1995.5	1801.0	1803.4	1771.4	1796.0	1785.0	1791.1
42.5°	2919.9	2910.1	2874.4	2596.2	2197.3	1975.8	1936.4	1856.4	1900.7	1897.0	1905.6
45°	3189.5	3182.2	3172.3	2884.3	2486.6	2212.1	2191.2	2047.2	2087.8	2070.6	2107.5
47.5°	3405.0	3413.6	3413.6	3205.5	2795.6	2527.3	2496.5	2268.7	2346.3	2354.9	2363.5
50°	3588.4	3592.1	3588.4	3512.1	3140.3	2887.9	2825.2	2593.7	2671.3	2739.0	2817.8
52.5°	3842.0	3846.9	3829.7	3800.1	3608.1	3267.1	3196.9	2939.6	3098.4	3169.8	3311.4
55°	4154.6	4117.7	4085.7	4107.9	4057.4	3684.4	3611.8	3296.6	3535.5	3630.2	3913.4
57.5°	4212.5	4244.5	4325.8	4501.8	4574.4	4090.6	4048.8	3734.9	4029.1	4111.6	4584.3
60°	4416.9	4363.9	4563.3	4945.0	5026.2	4620.0	4576.9	4215.0	4520.3	4606.4	5203.5
62.5°	4551.0	4548.6	4844.0	5297.0	5481.7	5169.0	5081.6	4839.1	5050.8	5134.5	5878.1
65°	4511.6	4547.3	5071.7	5503.8	5862.1	5793.1	5742.6	5375.8	5655.2	5647.9	6317.5
67.5°	4152.2	4253.1	4927.7	5652.8	6428.3	6553.9	6537.9	6130.4	6146.4	5990.1	6513.3
70°	3653.6	3619.2	4318.4	5497.7	6711.5	7456.2	7452.5	6691.8	6588.4	6065.2	5951.9
72°	2806.7	2768.5	3343.4	4720.9	6562.5	7816.9	7927.7	7080.8	6583.4	5753.7	4916.6
72.5°	2548.2	2514.9	3087.4	4443.9	6397.5	7910.5	7858.8	7095.5	6531.7	5607.2	4592.9
75°	1173.1	1135.0	1542.5	2720.5	4990.5	7009.4	7185.4	6640.1	5704.5	4463.6	2751.3
77.5°	349.6	338.5	496.1	1098.1	2900.3	5164.1	5231.8	5010.2	3982.3	2444.8	1020.5
80°	194.5	195.7	256.0	411.2	1275.3	2985.2	3228.9	3094.8	1953.6	807.5	339.8
82.5°	108.3	114.5	160.0	243.7	586.0	1370.1	1474.7	1421.8	706.6	379.2	185.9
85°	56.6	59.1	83.7	130.5	332.4	433.3	445.6	477.6	366.8	258.5	99.7
87.5°	22.2	22.2	30.8	54.2	123.1	134.2	120.6	146.5	210.5	167.4	49.2
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: P478699

CATALOG NUMBER: IFLD-S-SA2C-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6
2.5°	1194.1	1184.2	1183.0	1167.0	1171.9	1158.4	1159.6	1157.1	1158.4	1155.9	1149.8
5°	1187.9	1180.5	1159.6	1173.1	1160.8	1178.1	1191.6	1186.7	1190.4	1189.2	1190.4
7.5°	1196.5	1186.7	1184.2	1176.8	1187.9	1195.3	1206.4	1237.2	1234.7	1238.4	1245.8
10°	1222.4	1211.3	1203.9	1215.0	1208.8	1232.2	1244.5	1260.6	1288.9	1290.1	1275.3
12.5°	1272.9	1265.5	1250.7	1253.2	1274.1	1281.5	1288.9	1298.7	1317.2	1313.5	1327.0
15°	1330.7	1314.7	1306.1	1303.6	1308.6	1317.2	1315.9	1325.8	1335.6	1344.3	1340.6
17.5°	1372.6	1351.6	1354.1	1366.4	1365.2	1362.7	1346.7	1341.8	1346.7	1351.6	1349.2
20°	1415.7	1418.1	1399.7	1388.6	1383.7	1359.0	1346.7	1331.9	1317.2	1324.6	1335.6
22.5°	1469.8	1458.7	1431.7	1398.4	1373.8	1359.0	1320.9	1295.0	1295.0	1302.4	1298.7
25°	1531.4	1508.0	1461.2	1400.9	1370.1	1307.3	1280.2	1276.6	1266.7	1277.8	1282.7
27.5°	1579.4	1558.5	1494.4	1392.3	1307.3	1256.9	1240.9	1235.9	1251.9	1253.2	1272.9
30°	1599.1	1592.9	1499.4	1370.1	1243.3	1162.1	1152.2	1174.4	1191.6	1217.5	1218.7
32.5°	1624.9	1627.4	1506.8	1318.4	1159.6	1078.4	1063.6	1090.7	1139.9	1160.8	1176.8
35°	1668.0	1680.3	1500.6	1254.4	1071.0	993.4	991.0	998.3	1046.4	1083.3	1104.2
37.5°	1743.1	1740.6	1499.4	1178.1	1000.8	919.6	899.9	902.3	934.3	965.1	961.4
40°	1844.0	1834.2	1495.7	1078.4	909.7	856.8	823.5	811.2	808.8	800.2	802.6
42.5°	1981.9	1962.2	1494.4	977.4	827.2	770.6	747.2	715.2	691.8	647.5	650.0
45°	2174.0	2139.5	1462.4	882.6	746.0	699.2	663.5	640.1	589.7	534.3	534.3
47.5°	2470.6	2358.6	1463.7	778.0	667.2	629.0	604.4	563.8	509.6	465.3	460.4
50°	2907.6	2651.6	1421.8	695.5	603.2	577.3	551.5	504.7	453.0	422.2	425.9
52.5°	3471.4	3088.6	1420.6	621.7	552.7	534.3	505.9	464.1	425.9	406.2	398.8
55°	4143.6	3667.2	1464.9	561.3	501.0	491.2	478.9	444.4	407.5	390.2	389.0
57.5°	4831.7	4232.2	1536.3	518.3	456.7	464.1	455.5	428.4	398.8	379.2	376.7
60°	5443.5	4680.3	1392.3	466.6	417.3	433.3	445.6	422.2	406.2	405.0	396.4
62.5°	5905.1	4872.3	1058.7	427.2	396.4	425.9	459.2	473.9	466.6	476.4	477.6
65°	6073.8	4756.6	728.8	406.2	380.4	443.2	517.0	512.1	469.0	450.5	460.4
67.5°	5837.4	4287.6	540.4	381.6	369.3	478.9	550.3	488.7	423.5	421.0	413.6
70°	5020.0	3633.9	440.7	355.8	350.8	459.2	535.5	453.0	398.8	382.8	375.5
72°	3999.5	2830.1	386.5	337.3	321.3	409.9	501.0	424.7	377.9	358.2	349.6
72.5°	3651.2	2623.3	379.2	328.7	315.1	398.8	483.8	416.1	373.0	355.8	342.2
75°	2002.8	1343.0	333.6	301.6	265.9	344.7	448.1	390.2	352.1	327.4	325.0
77.5°	744.8	520.7	288.1	267.1	230.2	297.9	407.5	370.5	320.1	289.3	283.1
80°	285.6	274.5	235.1	225.3	193.3	261.0	375.5	332.4	272.1	241.3	231.4
82.5°	173.6	160.0	178.5	176.0	147.7	237.6	353.3	311.4	241.3	195.7	189.6
85°	94.8	94.8	124.3	119.4	103.4	189.6	267.1	206.8	152.6	125.6	128.0
87.5°	41.9	49.2	66.5	62.8	56.6	107.1	130.5	109.6	76.3	51.7	55.4
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)