

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: P479048

Luminaire Tested: **IFLD-S-SA2A-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479048  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-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**

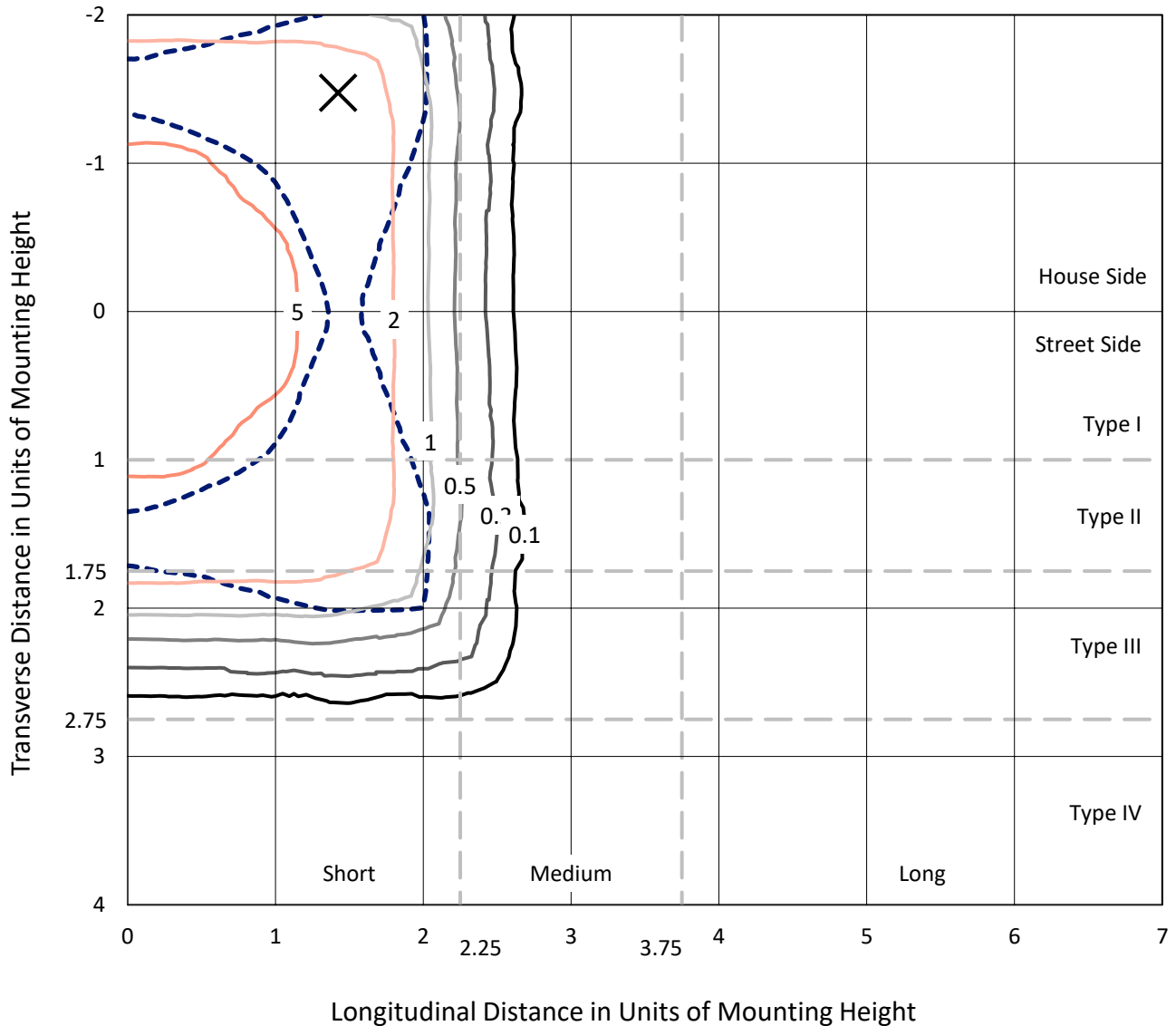
Lumens per Lamp: N/A  
Luminaire Lumens: 6768.8 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 63.8  
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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 CATALOG NUMBER: IFLD-S-SA2A-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

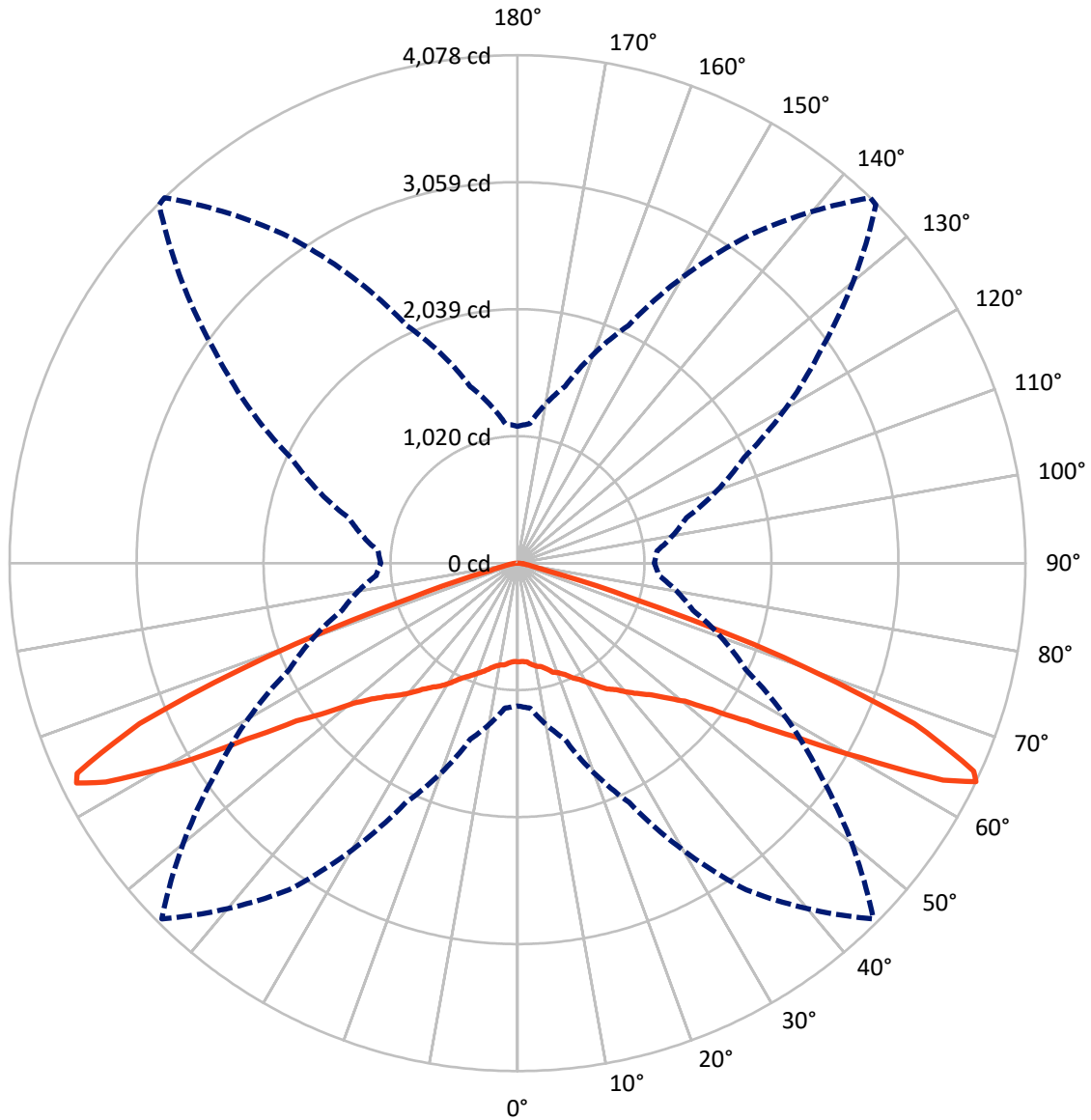
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P479048  
CATALOG NUMBER: IFLD-S-SA2A-827-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P479048

CATALOG NUMBER: IFLD-S-SA2A-827-U-5NQ

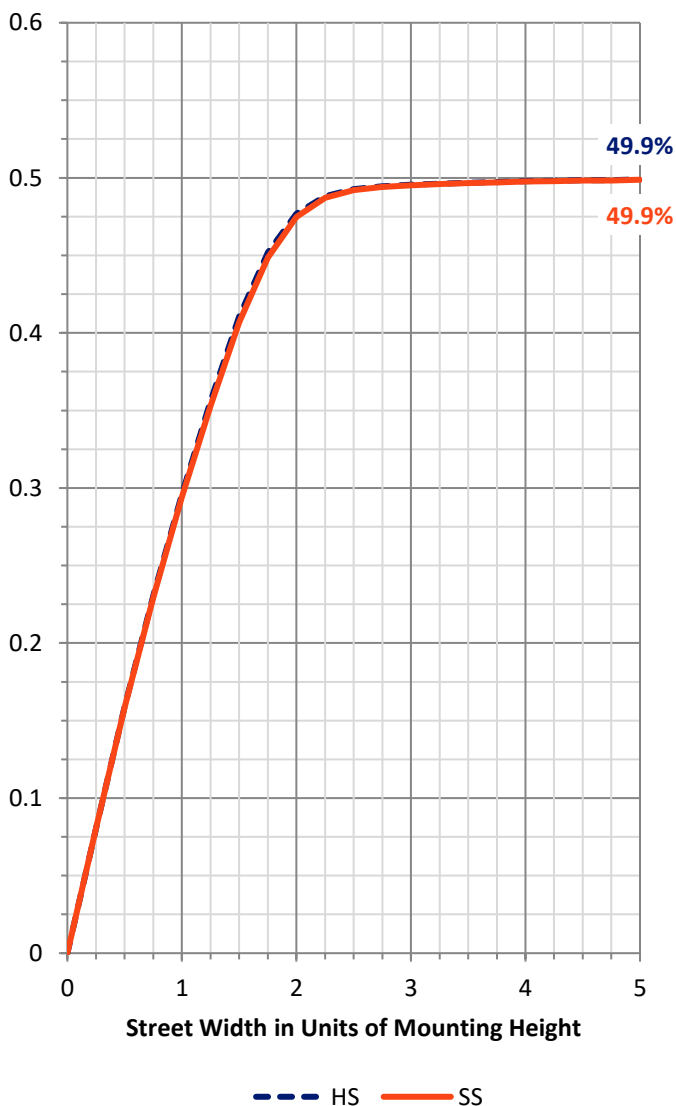
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3387.6	0.0	3387.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3381.2	0.0	3381.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6768.8	0.0	6768.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	1.2
10°-20°	251.0	3.7
20°-30°	471.7	7.0
30°-40°	777.9	11.5
40°-50°	1216.5	18.0
50°-60°	1965.6	29.0
60°-70°	1769.9	26.1
70°-80°	209.7	3.1
80°-90°	28.7	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°	6768.8	100.0
0°-180°	6768.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479048

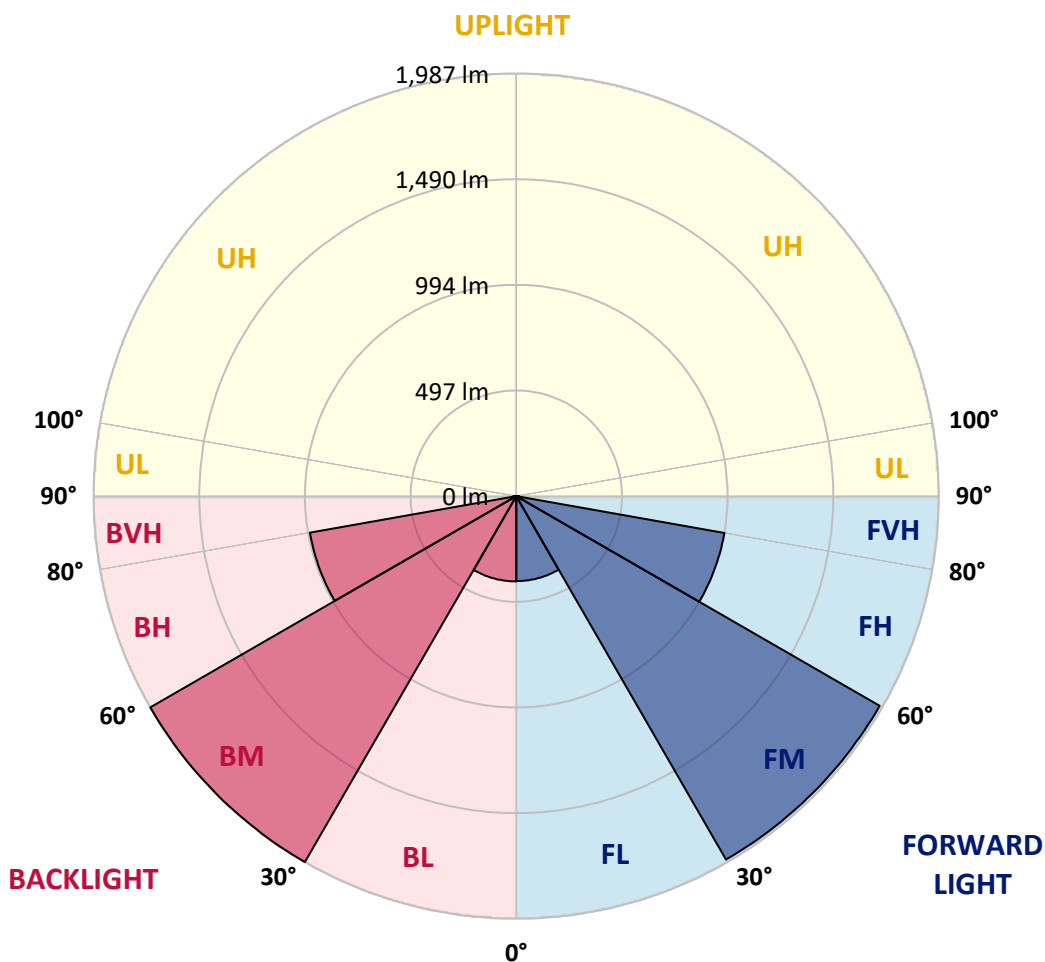
CATALOG NUMBER: IFLD-S-SA2A-827-U-5NQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.5	5.9			
FM (30°-60°)	1972.9	29.1			
FH (60°-80°)	994.1	14.7			G1/1800
FVH (80°-90°)	14.7	0.2			G1/100
BL (0°-30°)	401.0	5.9	B1/500		
BM (30°-60°)	1987.1	29.4	B2/2500		
BH (60°-80°)	985.5	14.6	B2/1000		G1/1800
BVH (80°-90°)	14.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





REPORT NUMBER: P479048

CATALOG NUMBER: IFLD-S-SA2A-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5
2.5°	783.2	784.7	798.7	793.3	797.9	789.4	795.6	808.8	793.3	804.9	808.8
5°	791.7	794.0	794.0	799.5	802.6	801.0	804.9	799.5	814.2	808.0	817.3
7.5°	822.8	818.9	812.7	817.3	818.1	822.0	825.9	832.8	830.5	825.1	834.4
10°	828.2	825.1	834.4	835.2	831.3	828.2	832.1	832.1	839.1	840.6	840.6
12.5°	837.5	840.6	839.8	846.0	846.8	844.5	850.7	862.3	859.2	861.6	856.1
15°	873.2	869.3	868.6	874.8	884.9	870.1	881.0	880.2	877.1	881.7	869.3
17.5°	904.3	891.8	897.3	907.4	903.5	906.6	920.6	908.1	911.2	905.8	901.9
20°	931.4	921.3	922.1	926.0	926.0	935.3	940.7	936.1	933.0	932.2	933.8
22.5°	961.7	950.1	950.8	967.1	972.6	969.5	965.6	973.3	974.9	968.7	975.7
25°	984.2	996.6	1000.5	1008.3	996.6	1005.2	1002.1	1016.8	1026.1	1013.7	1022.2
27.5°	1043.2	1037.8	1047.8	1047.1	1056.4	1047.8	1053.3	1057.9	1061.8	1062.6	1058.7
30°	1096.0	1098.3	1088.2	1115.4	1093.6	1107.6	1116.9	1119.3	1123.9	1123.9	1112.3
32.5°	1151.9	1147.2	1163.5	1157.3	1153.4	1164.3	1154.2	1186.0	1167.4	1178.2	1165.1
35°	1214.7	1214.7	1220.9	1238.0	1214.7	1207.7	1226.4	1239.6	1239.6	1220.2	1224.8
37.5°	1285.4	1279.2	1286.9	1308.6	1290.8	1267.5	1301.7	1307.1	1303.2	1297.8	1288.5
40°	1335.0	1333.5	1349.0	1377.7	1352.1	1347.5	1353.7	1368.4	1373.1	1378.5	1366.1
42.5°	1418.9	1425.9	1470.9	1463.9	1442.9	1426.6	1425.1	1480.2	1467.0	1453.0	1446.0
45°	1543.1	1536.8	1560.1	1560.9	1533.7	1498.0	1505.8	1556.3	1578.8	1547.7	1559.4
47.5°	1641.6	1644.7	1661.0	1694.4	1631.5	1594.3	1623.0	1704.5	1697.5	1685.9	1696.7
50°	1773.6	1787.6	1838.8	1827.1	1771.3	1725.5	1788.3	1865.2	1873.7	1831.0	1823.3
52.5°	1956.0	1977.7	2005.7	2015.0	1961.4	1945.1	1949.0	2044.5	2023.5	1982.4	1956.0
55°	2115.9	2126.0	2177.2	2254.0	2250.2	2171.8	2216.8	2252.5	2167.1	2082.5	2089.5
57.5°	2184.2	2188.8	2331.7	2485.3	2576.9	2594.8	2543.6	2423.2	2219.9	2056.9	2046.8
60°	2014.2	2058.4	2230.8	2577.7	2996.1	3202.5	2861.8	2442.7	2096.5	1898.5	1883.8
62.5°	1609.8	1612.1	1868.3	2394.5	3256.9	3797.9	2983.7	2260.3	1767.4	1543.1	1484.1
64°	1146.4	1168.2	1462.3	2119.8	3202.5	4040.0	2968.9	2022.0	1456.9	1138.7	1097.5
65°	822.8	853.0	1137.1	1840.3	3075.2	4011.3	2924.7	1817.0	1178.2	869.3	827.4
67.5°	302.7	315.1	446.3	920.6	2208.2	3418.3	2317.7	998.9	517.7	368.7	331.4
70°	140.5	141.3	165.3	304.3	965.6	2285.9	1106.1	374.9	194.8	154.5	143.6
72.5°	103.2	105.6	115.7	140.5	284.1	967.9	363.3	153.7	114.1	100.9	98.6
75°	83.8	85.4	88.5	101.7	131.2	259.2	147.5	106.3	90.8	81.5	78.4
77.5°	64.4	64.4	71.4	77.6	86.9	121.1	97.8	84.6	73.7	64.4	62.1
80°	46.6	47.3	55.9	60.5	59.0	79.9	70.6	69.9	60.5	50.5	46.6
82.5°	27.2	29.5	40.4	43.5	41.9	47.3	51.2	54.3	47.3	34.9	31.8
85°	15.5	16.3	23.3	24.1	24.1	22.5	29.5	32.6	31.8	21.7	19.4
87.5°	4.7	4.7	6.2	6.2	7.0	7.8	11.6	14.0	15.5	10.9	10.1
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: P479048  
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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5	792.5
2.5°	804.9	793.3	794.0	797.1	787.1	790.9	802.6	794.0	791.7	787.1	784.7
5°	801.0	813.4	808.8	810.3	808.0	797.1	795.6	802.6	806.5	799.5	813.4
7.5°	828.2	822.8	816.5	818.9	813.4	822.8	829.0	815.0	822.0	818.1	810.3
10°	843.7	833.6	838.3	836.7	832.8	842.2	836.0	834.4	828.2	819.7	832.1
12.5°	849.1	860.8	868.6	855.4	857.7	853.0	849.1	849.1	842.2	839.8	842.2
15°	873.2	883.3	880.2	890.3	877.1	881.7	886.4	874.8	881.0	863.9	877.1
17.5°	917.5	908.9	919.8	906.6	911.2	920.6	905.8	905.8	910.5	901.2	889.5
20°	945.4	941.5	937.6	938.4	930.6	939.2	934.5	932.2	925.2	928.3	934.5
22.5°	971.8	966.4	967.9	970.2	975.7	971.8	969.5	971.8	954.7	970.2	948.5
25°	1004.4	1019.1	1014.5	1024.6	1009.0	1019.1	1018.4	1003.6	1012.9	1006.7	1002.1
27.5°	1058.7	1051.0	1057.9	1045.5	1056.4	1057.2	1047.8	1072.7	1061.8	1060.3	1057.2
30°	1128.6	1123.1	1118.5	1111.5	1120.0	1113.0	1120.8	1123.1	1113.0	1105.3	1090.5
32.5°	1168.2	1182.9	1188.3	1171.3	1172.0	1175.9	1168.9	1161.9	1168.2	1170.5	1168.2
35°	1224.0	1238.0	1241.1	1227.9	1220.9	1240.3	1226.4	1249.7	1229.5	1230.3	1209.3
37.5°	1289.2	1293.1	1319.5	1304.8	1298.6	1289.2	1314.9	1311.8	1316.4	1279.2	1297.8
40°	1363.0	1377.0	1391.7	1354.4	1353.7	1362.2	1360.7	1378.5	1370.0	1364.5	1351.3
42.5°	1443.7	1473.2	1475.5	1450.7	1435.2	1433.6	1441.4	1481.0	1481.7	1446.0	1430.5
45°	1550.8	1583.4	1574.9	1526.8	1509.7	1507.4	1545.4	1562.5	1577.2	1563.2	1550.0
47.5°	1684.3	1706.1	1699.8	1655.6	1600.5	1616.0	1653.3	1706.8	1691.3	1672.7	1657.2
50°	1827.1	1852.8	1839.6	1795.3	1742.5	1742.5	1788.3	1856.6	1852.0	1815.5	1801.5
52.5°	1985.5	2022.7	2053.0	1990.1	1945.9	1952.9	2025.1	2049.9	2038.3	2012.6	2001.0
55°	2103.5	2174.9	2237.0	2240.1	2242.4	2241.6	2260.3	2285.1	2202.0	2160.9	2119.0
57.5°	2074.7	2209.8	2422.5	2566.8	2609.5	2632.0	2625.8	2511.0	2314.6	2179.5	2193.5
60°	1869.8	2090.3	2433.3	2896.7	3207.2	3176.1	3062.8	2608.8	2252.5	2024.3	1995.6
62.5°	1491.8	1757.3	2250.9	2989.9	3845.2	3835.9	3242.9	2382.9	1876.8	1588.1	1570.2
64°	1123.9	1403.3	2008.0	2965.8	4068.8	4078.1	3197.1	2105.0	1468.5	1123.9	1096.7
65°	860.0	1119.3	1769.7	2916.1	4020.6	4026.1	3069.8	1817.8	1116.2	797.9	768.4
67.5°	342.3	476.6	960.1	2211.4	3452.5	3437.7	2190.4	879.4	426.9	277.9	272.4
70°	145.9	181.6	336.9	1047.8	2311.5	2268.8	943.1	285.6	158.3	132.7	132.0
72.5°	100.1	111.0	144.4	323.7	960.9	938.4	268.6	132.7	107.9	99.4	99.4
75°	80.7	88.5	104.8	135.8	254.6	245.3	126.5	97.8	86.2	79.9	79.2
77.5°	62.9	70.6	82.3	93.9	116.4	115.7	84.6	73.7	66.8	62.1	60.5
80°	49.7	57.4	65.2	66.8	76.1	74.5	57.4	58.2	54.3	45.0	44.2
82.5°	34.2	46.6	52.0	47.3	45.0	45.0	41.1	41.1	38.0	27.9	25.6
85°	21.0	31.0	32.6	27.9	21.0	21.0	22.5	21.7	20.2	14.7	14.0
87.5°	10.9	14.7	13.2	10.9	7.0	7.0	6.2	4.7	4.7	3.9	3.9
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)