

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: P478424

Luminaire Tested: **IFLD-S-SA2A-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

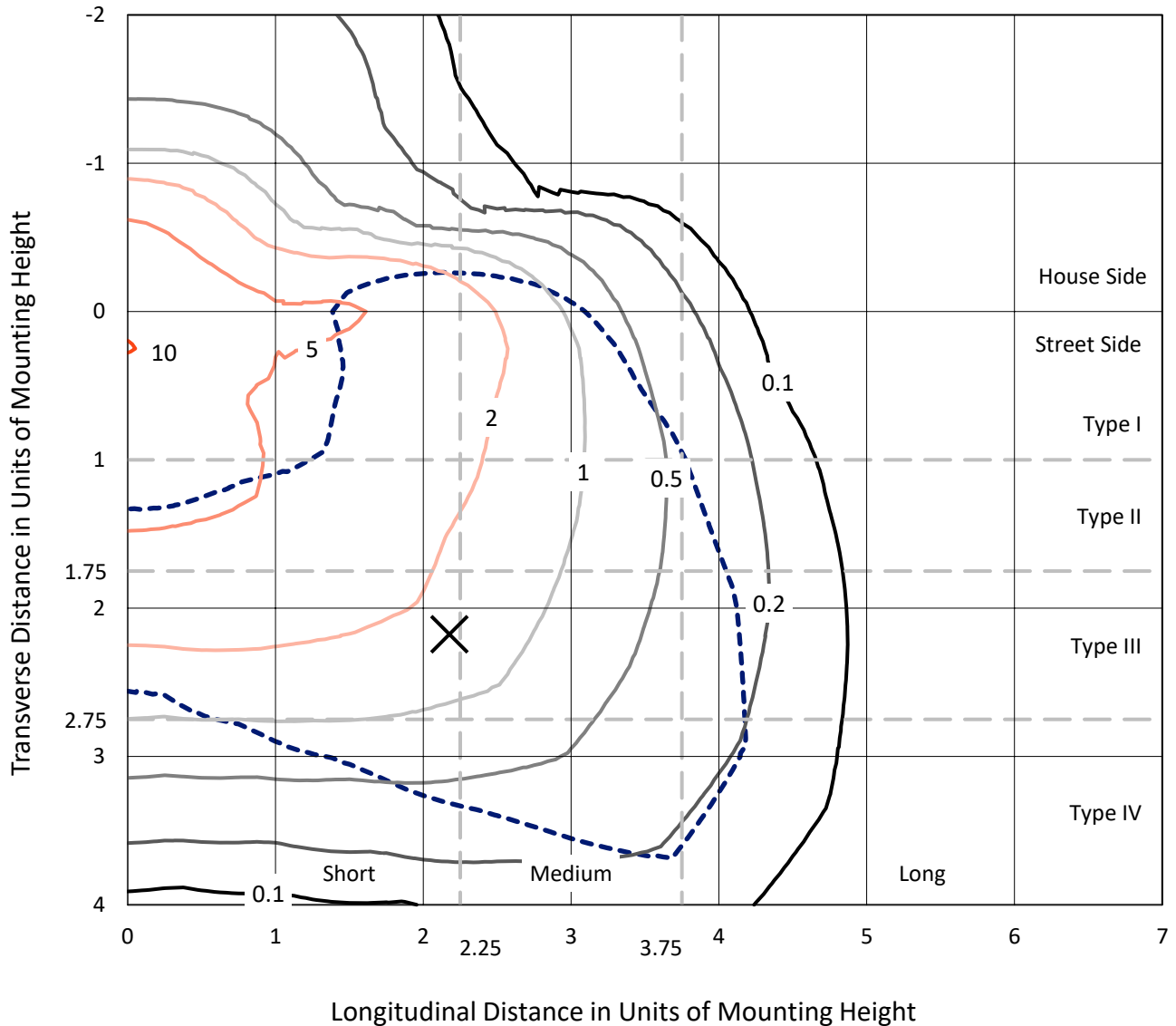
Lumens per Lamp: N/A
Luminaire Lumens: 7804.1 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P478424
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

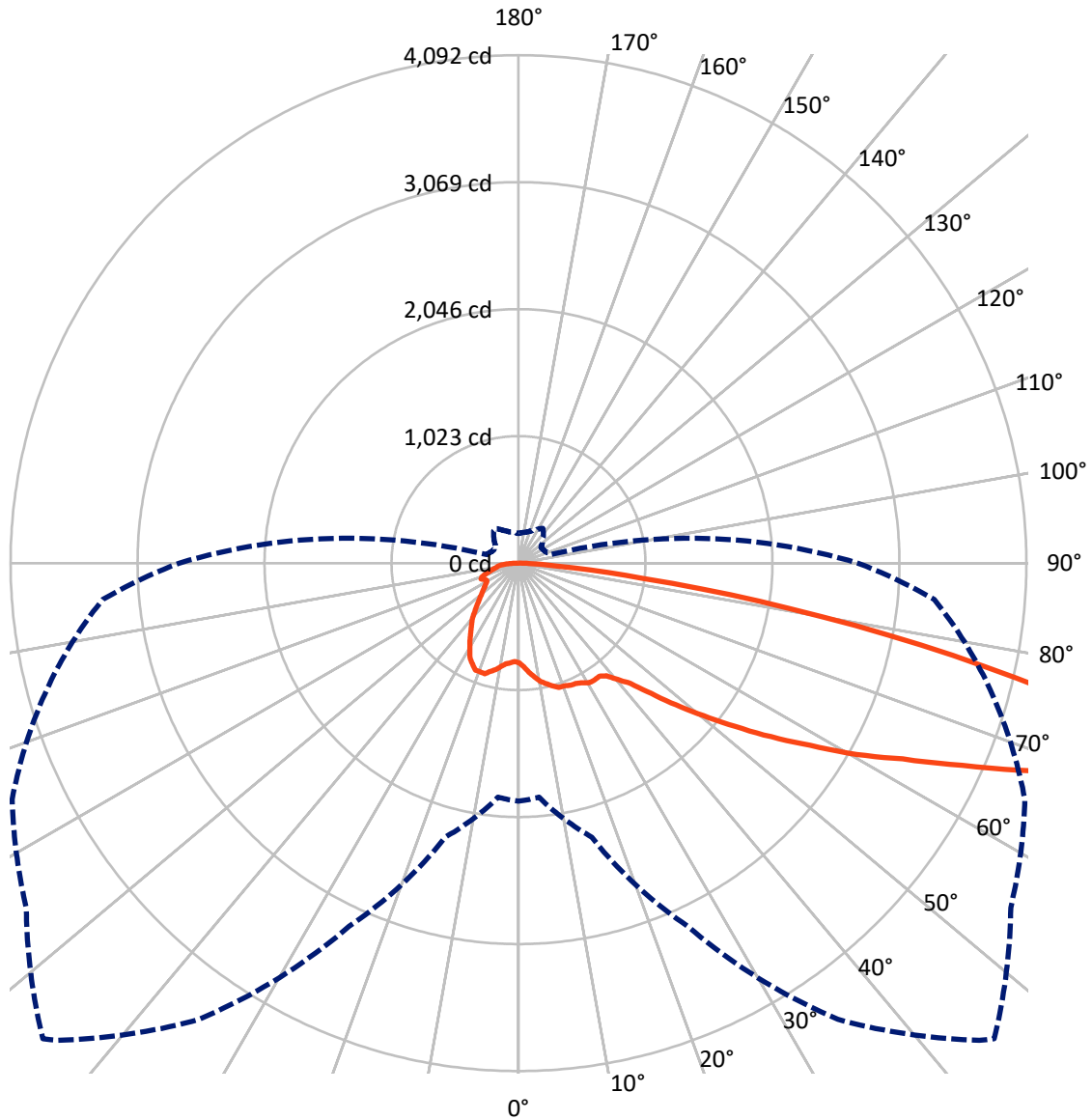
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478424
CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478424
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W

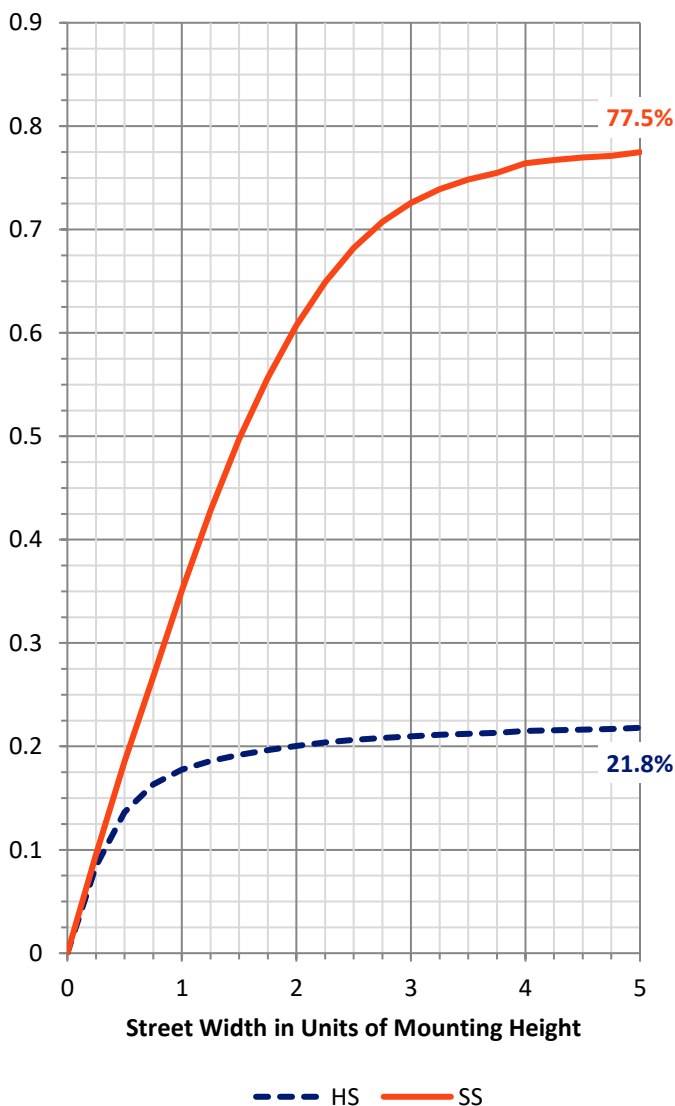
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1737.2	0.0	1737.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	6066.9	0.0	6066.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	7804.1	0.0	7804.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	1.1
10°-20°	273.6	3.5
20°-30°	462.1	5.9
30°-40°	639.4	8.2
40°-50°	914.6	11.7
50°-60°	1475.2	18.9
60°-70°	2175.7	27.9
70°-80°	1579.9	20.2
80°-90°	201.4	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°	7804.1	100.0
0°-180°	7804.1	100.0

Coefficient of Utilization



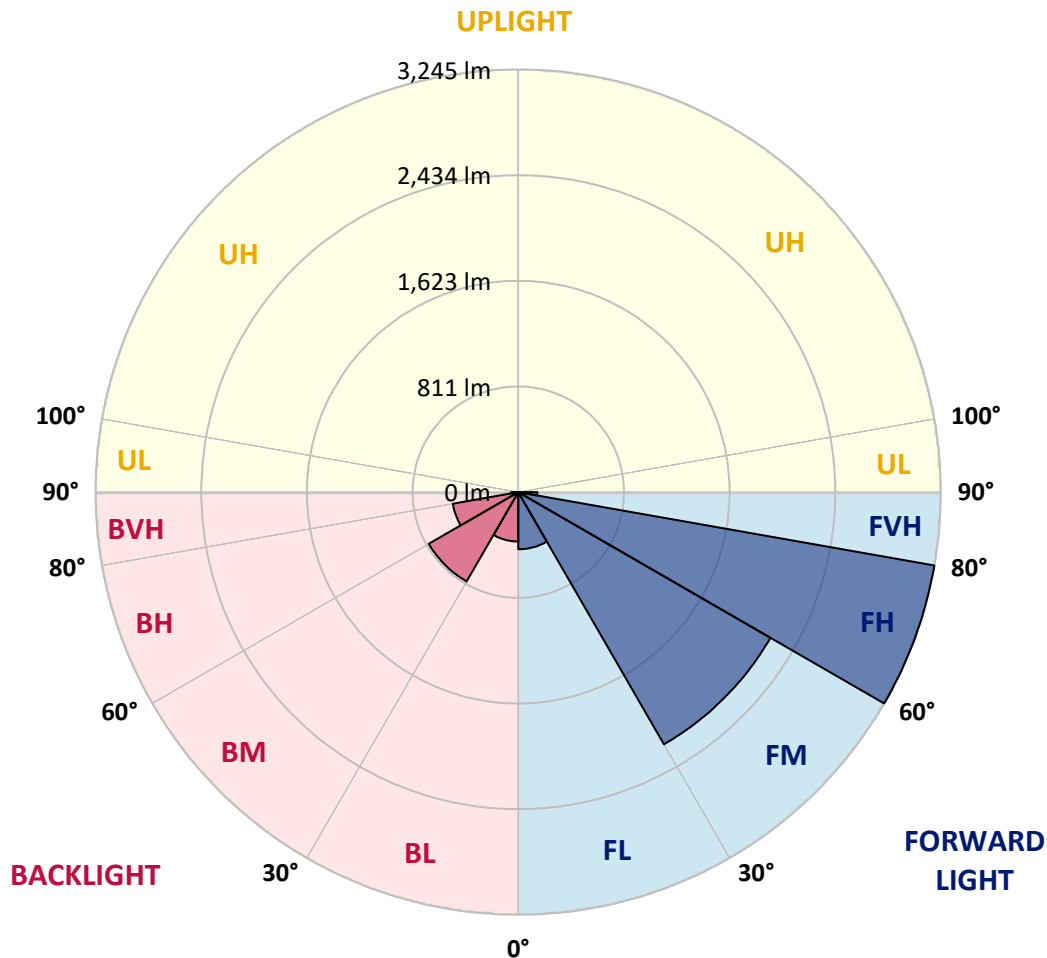
REPORT NUMBER: P478424
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.6	5.6			
FM (30°-60°)	2236.4	28.7			
FH (60°-80°)	3245.3	41.6			G2/5000
FVH (80°-90°)	146.6	1.9			G2/225
BL (0°-30°)	379.3	4.9	B1/500		
BM (30°-60°)	792.8	10.2	B1/1000		
BH (60°-80°)	510.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	54.8	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: P478424
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7
2.5°	846.6	851.7	846.6	845.8	837.3	831.5	836.5	828.9	820.5	817.1	809.6
5°	924.0	924.9	915.6	916.5	898.8	880.3	883.6	860.9	836.5	827.2	812.1
7.5°	1003.1	993.9	980.4	976.2	948.4	928.2	925.7	905.5	867.6	846.6	825.6
10°	1054.5	1057.8	1036.0	1017.4	993.9	969.5	968.6	930.8	908.9	877.7	850.8
12.5°	1099.9	1100.8	1082.2	1052.8	1023.3	993.0	997.2	980.4	943.4	913.9	887.0
15°	1135.3	1130.2	1110.0	1083.1	1051.9	1028.4	1025.9	1011.5	980.4	956.0	911.4
17.5°	1145.4	1142.8	1122.6	1094.0	1063.7	1046.1	1052.8	1029.2	1016.6	994.7	951.8
20°	1126.0	1120.1	1116.7	1084.8	1062.9	1061.2	1055.3	1060.4	1039.3	1019.1	988.0
22.5°	1090.7	1088.1	1086.4	1061.2	1051.1	1058.7	1068.8	1076.3	1073.0	1053.6	1018.3
25°	1054.5	1066.2	1055.3	1043.5	1057.8	1077.2	1074.7	1099.1	1099.1	1093.2	1063.7
27.5°	1079.7	1072.1	1063.7	1057.8	1062.9	1093.2	1091.5	1121.0	1131.9	1121.0	1087.3
30°	1142.8	1135.3	1110.9	1084.8	1078.0	1110.9	1119.3	1145.4	1150.4	1123.5	1094.9
32.5°	1261.5	1257.3	1218.6	1142.0	1100.8	1119.3	1123.5	1152.9	1148.7	1131.9	1120.1
35°	1437.4	1423.1	1369.2	1239.6	1148.7	1130.2	1119.3	1142.8	1158.8	1150.4	1139.5
37.5°	1630.1	1614.1	1547.6	1383.5	1235.4	1159.7	1151.2	1170.6	1189.1	1184.9	1162.2
40°	1814.4	1814.4	1754.6	1563.6	1364.2	1231.2	1232.9	1211.0	1227.8	1220.3	1224.5
42.5°	1996.2	1989.4	1965.0	1774.8	1502.2	1350.7	1323.8	1269.1	1299.4	1296.8	1302.7
45°	2180.5	2175.4	2168.7	1971.8	1699.9	1512.3	1498.0	1399.5	1427.3	1415.5	1440.7
47.5°	2327.7	2333.6	2333.6	2191.4	1911.2	1727.7	1706.7	1551.0	1604.0	1609.9	1615.8
50°	2453.1	2455.7	2453.1	2401.0	2146.8	1974.3	1931.4	1773.2	1826.2	1872.5	1926.3
52.5°	2626.5	2629.9	2618.1	2597.9	2466.6	2233.5	2185.5	2009.6	2118.2	2167.0	2263.8
55°	2840.2	2815.0	2793.1	2808.3	2773.8	2518.8	2469.1	2253.7	2416.9	2481.7	2675.3
57.5°	2879.8	2901.7	2957.2	3077.6	3127.2	2796.5	2767.9	2553.3	2754.4	2810.8	3133.9
60°	3019.5	2983.3	3119.6	3380.5	3436.1	3158.4	3128.9	2881.5	3090.2	3149.1	3557.3
62.5°	3111.2	3109.5	3311.5	3621.2	3747.4	3533.7	3473.9	3308.2	3452.9	3510.1	4018.4
65°	3084.3	3108.7	3467.2	3762.6	4007.5	3960.4	3925.9	3675.1	3866.1	3861.1	4318.9
67.5°	2838.6	2907.6	3368.7	3864.4	4394.6	4480.4	4469.5	4190.9	4201.9	4095.0	4452.7
70°	2497.7	2474.2	2952.2	3758.4	4588.2	5097.3	5094.8	4574.7	4504.0	4146.3	4068.9
72°	1918.7	1892.7	2285.7	3227.4	4486.3	5343.9	5419.6	4840.6	4500.6	3933.4	3361.2
72.5°	1742.0	1719.3	2110.6	3038.0	4373.6	5407.8	5372.5	4850.7	4465.3	3833.3	3139.8
75°	802.0	775.9	1054.5	1859.8	3411.7	4791.8	4912.2	4539.3	3899.8	3051.5	1880.9
77.5°	239.0	231.4	339.1	750.7	1982.7	3530.3	3576.6	3425.1	2722.4	1671.3	697.6
80°	133.0	133.8	175.0	281.1	871.9	2040.8	2207.4	2115.7	1335.5	552.1	232.3
82.5°	74.1	78.3	109.4	166.6	400.6	936.7	1008.2	972.0	483.1	259.2	127.1
85°	38.7	40.4	57.2	89.2	227.2	296.2	304.6	326.5	250.8	176.7	68.2
87.5°	15.1	15.1	21.0	37.0	84.2	91.7	82.5	100.1	143.9	114.5	33.7
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: P478424
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7	803.7
2.5°	816.3	809.6	808.7	797.8	801.2	791.9	792.7	791.1	791.9	790.2	786.0
5°	812.1	807.1	792.7	802.0	793.6	805.4	814.6	811.3	813.8	812.9	813.8
7.5°	818.0	811.3	809.6	804.5	812.1	817.1	824.7	845.8	844.1	846.6	851.7
10°	835.7	828.1	823.0	830.6	826.4	842.4	850.8	861.8	881.1	881.9	871.9
12.5°	870.2	865.1	855.0	856.7	871.0	876.1	881.1	887.8	900.5	897.9	907.2
15°	909.7	898.8	892.9	891.2	894.6	900.5	899.6	906.4	913.1	919.0	916.5
17.5°	938.3	924.0	925.7	934.1	933.3	931.6	920.7	917.3	920.7	924.0	922.3
20°	967.8	969.5	956.8	949.3	945.9	929.1	920.7	910.6	900.5	905.5	913.1
22.5°	1004.8	997.2	978.7	956.0	939.2	929.1	903.0	885.3	885.3	890.4	887.8
25°	1046.9	1030.9	998.9	957.7	936.7	893.7	875.2	872.7	866.0	873.5	876.9
27.5°	1079.7	1065.4	1021.6	951.8	893.7	859.2	848.3	844.9	855.9	856.7	870.2
30°	1093.2	1089.0	1025.0	936.7	850.0	794.4	787.7	802.8	814.6	832.3	833.1
32.5°	1110.9	1112.5	1030.1	901.3	792.7	737.2	727.1	745.6	779.3	793.6	804.5
35°	1140.3	1148.7	1025.9	857.5	732.2	679.1	677.5	682.5	715.3	740.6	754.9
37.5°	1191.6	1190.0	1025.0	805.4	684.2	628.6	615.2	616.9	638.7	659.8	657.3
40°	1260.6	1253.9	1022.5	737.2	621.9	585.7	563.0	554.6	552.9	547.0	548.7
42.5°	1354.9	1341.4	1021.6	668.2	565.5	526.8	510.8	488.9	473.0	442.7	444.3
45°	1486.2	1462.6	999.8	603.4	510.0	478.0	453.6	437.6	403.1	365.2	365.2
47.5°	1689.0	1612.4	1000.6	531.9	456.1	430.0	413.2	385.4	348.4	318.1	314.7
50°	1987.8	1812.7	972.0	475.5	412.4	394.7	377.0	345.0	309.7	288.7	291.2
52.5°	2373.2	2111.5	971.2	425.0	377.9	365.2	345.9	317.3	291.2	277.7	272.7
55°	2832.7	2507.0	1001.4	383.7	342.5	335.8	327.4	303.8	278.6	266.8	265.9
57.5°	3303.1	2893.3	1050.3	354.3	312.2	317.3	311.4	292.9	272.7	259.2	257.5
60°	3721.4	3199.6	951.8	318.9	285.3	296.2	304.6	288.7	277.7	276.9	271.0
62.5°	4036.9	3330.9	723.7	292.0	271.0	291.2	313.9	324.0	318.9	325.7	326.5
65°	4152.2	3251.8	498.2	277.7	260.0	303.0	353.5	350.1	320.6	308.0	314.7
67.5°	3990.7	2931.1	369.4	260.9	252.5	327.4	376.2	334.1	289.5	287.8	282.8
70°	3431.9	2484.3	301.3	243.2	239.8	313.9	366.1	309.7	272.7	261.7	256.7
72°	2734.2	1934.7	264.2	230.6	219.6	280.2	342.5	290.3	258.4	244.9	239.0
72.5°	2496.1	1793.4	259.2	224.7	215.4	272.7	330.7	284.4	255.0	243.2	234.0
75°	1369.2	918.1	228.1	206.2	181.8	235.6	306.3	266.8	240.7	223.9	222.2
77.5°	509.1	356.0	196.9	182.6	157.4	203.7	278.6	253.3	218.8	197.8	193.6
80°	195.2	187.7	160.7	154.0	132.1	178.4	256.7	227.2	186.0	164.9	158.2
82.5°	118.7	109.4	122.0	120.3	101.0	162.4	241.5	212.9	164.9	133.8	129.6
85°	64.8	64.8	85.0	81.6	70.7	129.6	182.6	141.4	104.4	85.8	87.5
87.5°	28.6	33.7	45.4	42.9	38.7	73.2	89.2	74.9	52.2	35.3	37.9
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)