

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: P476480

Luminaire Tested: **IFLD-S-SA3B-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476480  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

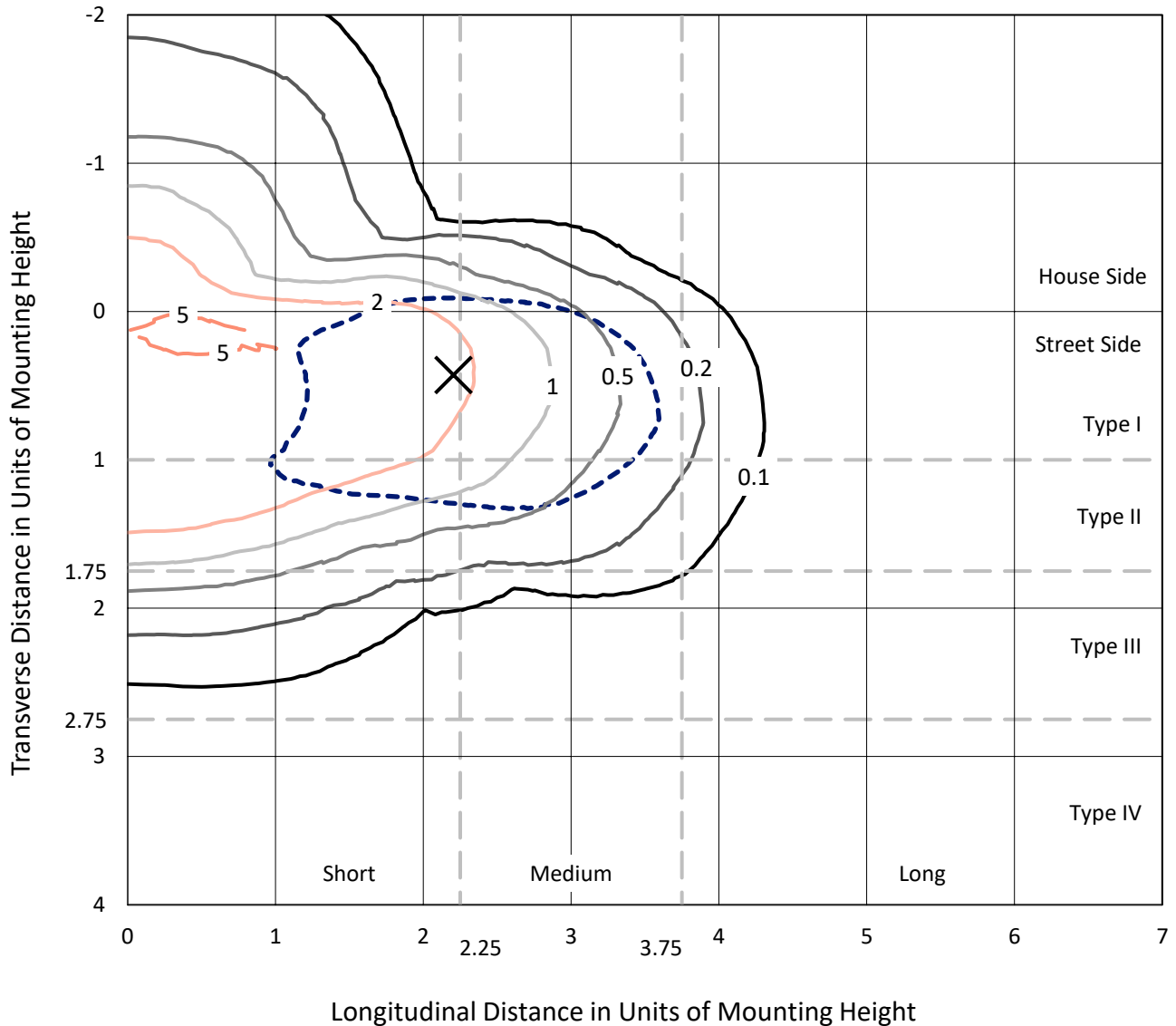
Lumens per Lamp: N/A  
Luminaire Lumens: 14213.2 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4  
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

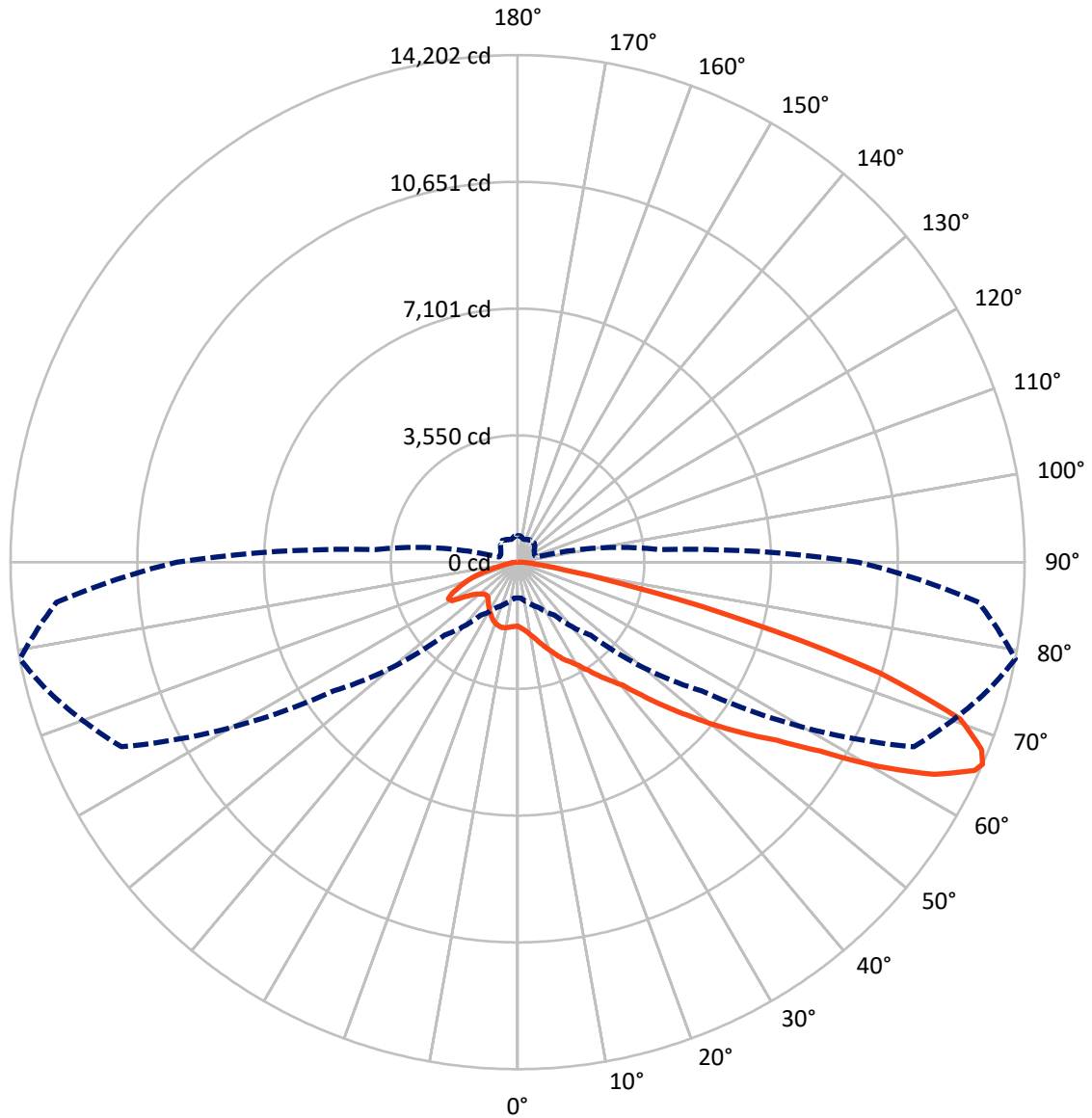
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P476480  
CATALOG NUMBER: IFLD-S-SA3B-727-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476480

CATALOG NUMBER: IFLD-S-SA3B-727-U-T2

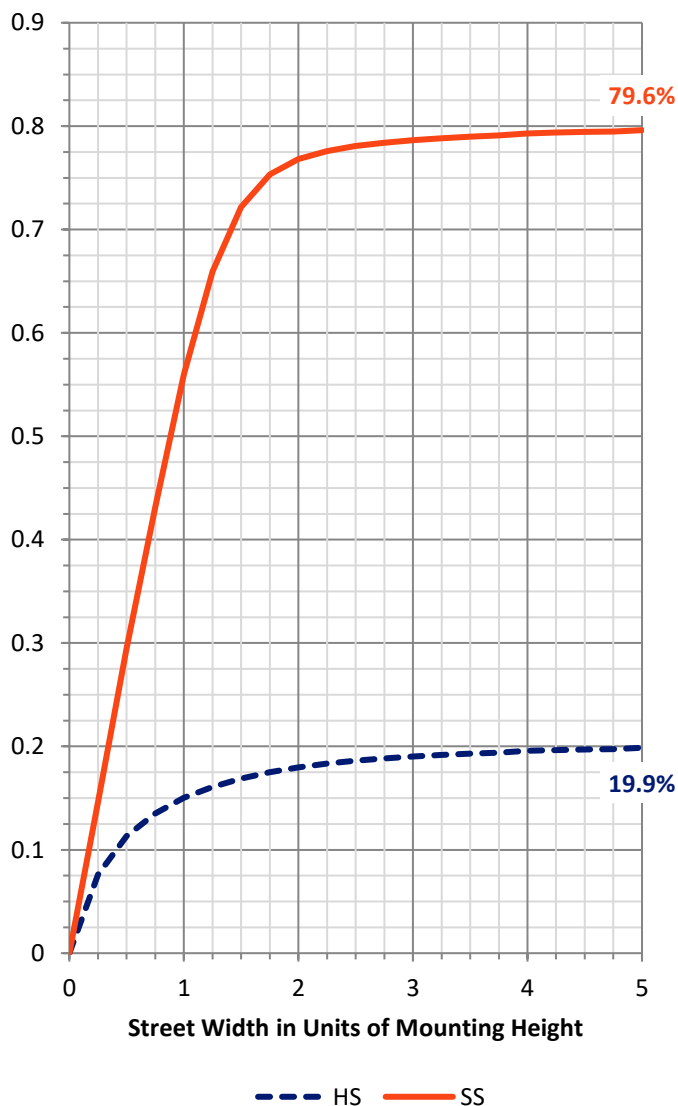
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2870.2	0.0	2870.2
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	11343.0	0.0	11343.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	14213.2	0.0	14213.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.5	1.2
10°-20°	544.9	3.8
20°-30°	935.4	6.6
30°-40°	1445.0	10.2
40°-50°	2314.6	16.3
50°-60°	3455.8	24.3
60°-70°	3550.9	25.0
70°-80°	1574.0	11.1
80°-90°	216.0	1.5
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°	14213.2	100.0
0°-180°	14213.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476480

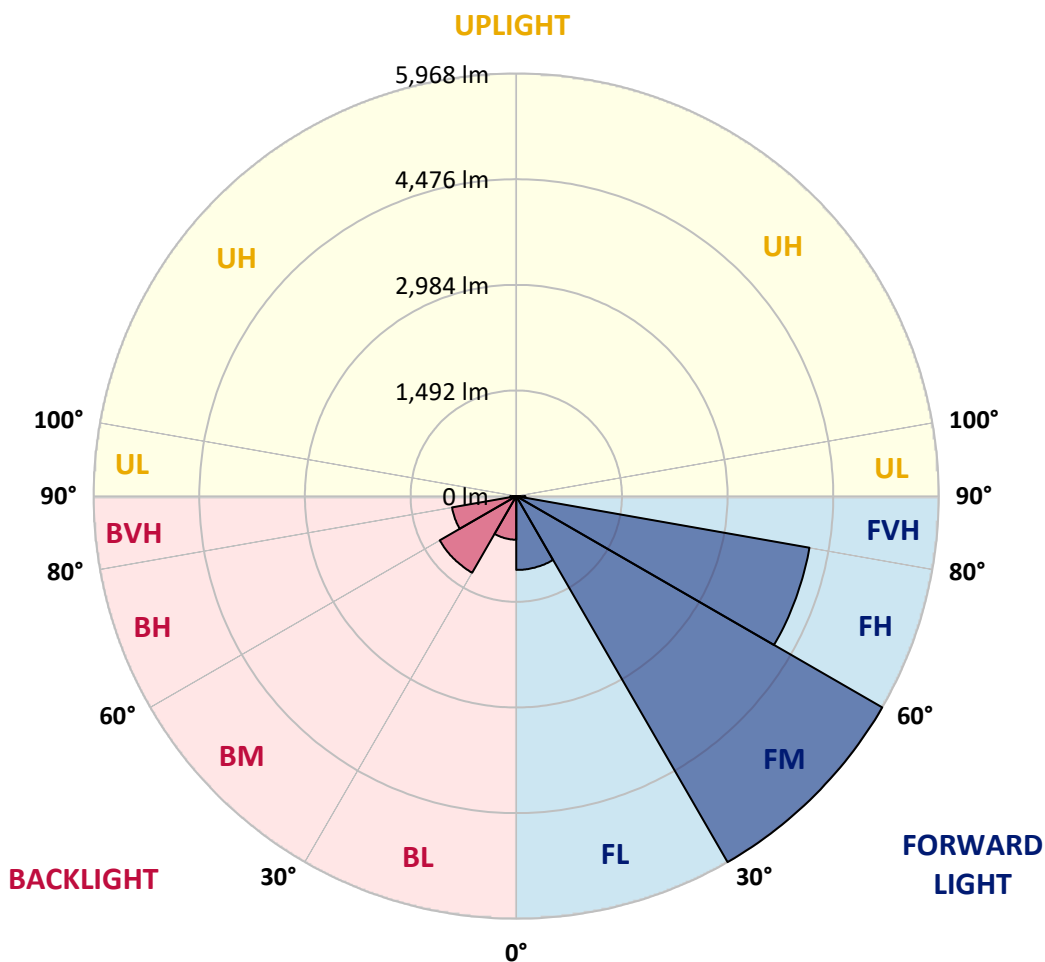
CATALOG NUMBER: IFLD-S-SA3B-727-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.9	7.3			
FM (30°-60°)	5967.6	42.0			
FH (60°-80°)	4203.9	29.6			G2/5000
FVH (80°-90°)	129.5	0.9			G2/225
BL (0°-30°)	614.9	4.3	B2/1000		
BM (30°-60°)	1247.8	8.8	B2/2500		
BH (60°-80°)	921.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	86.4	0.6			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 II Short





REPORT NUMBER: P476480  
 CATALOG NUMBER: IFLD-S-SA3B-727-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7
2.5°	1908.9	1910.4	1910.4	1904.2	1905.7	1910.4	1893.2	1855.7	1855.7	1849.4	1838.5
5°	2026.1	2018.3	2007.3	2008.9	2002.7	2002.7	1983.9	1947.9	1916.7	1904.2	1871.3
7.5°	2041.7	2049.6	2048.0	2066.8	2076.1	2076.1	2085.5	2055.8	2008.9	1979.2	1946.4
10°	2073.0	2052.7	2051.1	2094.9	2109.0	2141.8	2179.3	2163.7	2124.6	2082.4	2038.6
12.5°	2091.8	2104.3	2104.3	2126.2	2159.0	2207.5	2273.1	2302.8	2241.9	2198.1	2130.9
15°	2119.9	2102.7	2152.7	2171.5	2234.0	2268.4	2362.2	2438.8	2398.2	2345.0	2238.7
17.5°	2132.4	2121.5	2149.6	2184.0	2290.3	2341.9	2456.0	2562.3	2527.9	2493.6	2384.1
20°	2196.5	2195.0	2207.5	2235.6	2312.2	2413.8	2556.1	2703.0	2715.5	2653.0	2504.5
22.5°	2352.8	2332.5	2332.5	2321.6	2354.4	2459.2	2651.5	2854.7	2911.0	2837.5	2640.5
25°	2496.7	2524.8	2507.6	2457.6	2445.1	2499.8	2720.2	3015.7	3090.8	3022.0	2825.0
27.5°	2681.2	2690.5	2720.2	2653.0	2567.0	2584.2	2795.3	3106.4	3261.2	3168.9	2929.7
30°	2946.9	2929.7	2923.5	2848.4	2735.9	2712.4	2881.3	3239.3	3484.7	3355.0	3053.2
32.5°	3126.7	3168.9	3167.4	3064.2	2928.2	2876.6	2987.6	3364.3	3723.9	3603.5	3281.5
35°	3483.2	3526.9	3492.5	3340.9	3181.4	3078.2	3140.8	3526.9	3997.5	3903.7	3475.3
37.5°	3938.1	4041.3	3967.8	3688.0	3462.8	3350.3	3353.4	3703.6	4277.3	4200.7	3683.3
40°	4252.3	4391.5	4289.8	4027.2	3788.0	3681.7	3639.5	3913.1	4611.9	4530.6	4008.4
42.5°	4641.6	4757.3	4704.1	4444.6	4164.8	4074.1	3989.7	4263.3	5123.1	5085.6	4425.9
45°	5066.8	5121.6	5104.4	4940.2	4629.1	4597.8	4411.8	4724.5	5725.0	5740.6	4948.0
47.5°	5462.4	5492.1	5524.9	5406.1	5212.2	5238.8	4898.0	5218.5	6309.7	6412.9	5529.6
50°	5564.0	5665.6	5742.2	5821.9	5864.1	6043.9	5434.2	5825.1	6981.9	7182.1	6176.8
52.5°	5460.8	5453.0	5685.9	5936.1	6358.2	6734.9	6164.3	6578.6	7576.0	7971.5	6769.3
55°	4991.8	4976.2	5351.4	5682.8	6506.7	7119.5	7207.1	7582.3	8293.6	8807.9	7571.3
57.5°	4171.0	4074.1	4483.7	5027.8	6184.6	7161.7	8254.5	9072.2	9397.3	9983.6	8795.4
60°	2803.1	2762.4	3154.9	3803.6	5021.5	6563.0	8881.4	10937.2	10952.9	11612.6	10694.9
62.5°	1725.9	1733.8	1985.5	2471.7	3516.0	5202.8	8611.0	12427.1	12430.2	13091.5	12258.3
65°	1128.7	1133.4	1336.7	1605.6	2196.5	3528.5	7121.1	12544.4	13457.4	14071.8	12974.3
66°	1005.2	1006.8	1181.9	1400.8	1819.7	2887.5	6289.4	12239.5	13688.7	14201.5	12964.9
67.5°	847.3	867.7	1008.4	1177.2	1419.5	2074.6	4990.2	11357.8	13569.9	14020.2	12671.0
70°	662.9	673.8	784.8	956.8	1064.6	1200.7	2965.7	9258.2	12420.9	13150.9	11601.7
72.5°	531.5	540.9	625.3	777.0	864.5	791.1	1614.9	6717.7	9811.6	10590.2	9125.3
75°	448.7	450.2	490.9	611.3	711.3	594.1	859.8	4311.7	6295.6	6658.3	5590.6
77.5°	362.7	369.0	397.1	465.9	572.2	467.4	512.8	2415.4	3161.1	3187.7	2584.2
80°	295.5	298.6	315.8	339.2	436.2	345.5	347.1	1178.8	1355.4	1324.2	1050.6
82.5°	232.9	236.1	256.4	251.7	320.5	247.0	215.7	567.5	623.8	611.3	483.1
85°	131.3	131.3	201.7	201.7	203.2	156.3	131.3	267.3	329.9	308.0	226.7
87.5°	42.2	43.8	61.0	64.1	101.6	70.4	64.1	100.1	156.3	137.6	81.3
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: P476480  
 CATALOG NUMBER: IFLD-S-SA3B-727-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7	1794.7
2.5°	1832.3	1807.2	1796.3	1760.3	1751.0	1727.5	1716.6	1702.5	1697.8	1677.5	1696.2
5°	1846.3	1838.5	1794.7	1749.4	1715.0	1699.4	1675.9	1644.6	1641.5	1613.4	1610.3
7.5°	1905.7	1879.2	1802.5	1754.1	1685.3	1646.2	1594.6	1579.0	1558.7	1549.3	1569.6
10°	1998.0	1930.7	1816.6	1694.7	1610.3	1563.4	1525.8	1514.9	1516.5	1510.2	1500.8
12.5°	2063.6	1999.5	1793.2	1644.6	1535.2	1489.9	1486.8	1497.7	1514.9	1507.1	1518.0
15°	2157.4	2037.1	1776.0	1561.8	1474.2	1461.7	1460.2	1493.0	1491.4	1491.4	1489.9
17.5°	2245.0	2074.6	1713.4	1489.9	1410.1	1419.5	1430.5	1428.9	1444.5	1450.8	1461.7
20°	2356.0	2118.3	1625.9	1418.0	1361.7	1358.6	1357.0	1358.6	1374.2	1383.6	1375.8
22.5°	2452.9	2127.7	1552.4	1349.2	1303.8	1291.3	1271.0	1291.3	1283.5	1286.6	1296.0
25°	2537.3	2129.3	1447.7	1297.6	1246.0	1217.9	1202.2	1200.7	1186.6	1185.0	1185.0
27.5°	2607.7	2076.1	1355.4	1225.7	1177.2	1150.6	1149.1	1131.9	1095.9	1072.5	1075.6
30°	2662.4	2035.5	1291.3	1163.1	1116.2	1111.5	1097.5	1058.4	1011.5	981.8	981.8
32.5°	2759.3	1954.2	1203.8	1099.0	1075.6	1069.3	1036.5	1002.1	958.3	930.2	925.5
35°	2831.2	1879.2	1145.9	1044.3	1033.4	1020.9	992.7	955.2	942.7	936.4	941.1
37.5°	2912.5	1794.7	1075.6	997.4	1008.4	984.9	952.1	934.9	978.7	967.7	972.4
40°	3042.3	1735.3	1006.8	969.3	980.2	953.6	911.4	905.2	959.9	920.8	911.4
42.5°	3279.9	1733.8	964.6	927.1	934.9	914.6	877.0	873.9	895.8	848.9	834.8
45°	3575.4	1788.5	933.3	895.8	889.5	886.4	873.9	859.8	841.1	780.1	764.5
47.5°	3928.7	1877.6	927.1	848.9	856.7	883.3	867.7	831.7	783.2	744.2	736.3
50°	4357.1	2062.1	911.4	814.5	828.6	870.8	858.3	808.3	764.5	739.5	734.8
52.5°	4830.8	2295.0	891.1	761.4	792.6	859.8	866.1	819.2	755.1	733.2	730.1
55°	5388.9	2638.9	867.7	703.5	750.4	848.9	866.1	787.9	742.6	742.6	739.5
57.5°	6491.1	3258.0	819.2	650.4	712.9	828.6	841.1	789.5	744.2	744.2	737.9
60°	8107.6	4224.2	727.0	609.7	676.9	800.4	822.3	766.0	727.0	736.3	734.8
62.5°	9372.3	4518.1	648.8	570.6	641.0	748.8	797.3	741.0	706.6	741.0	744.2
65°	9642.8	4221.1	569.1	528.4	590.9	698.8	761.4	705.1	676.9	744.2	747.3
66°	9545.8	3989.7	540.9	515.9	569.1	673.8	739.5	692.6	661.3	741.0	742.6
67.5°	9114.4	3642.6	509.7	489.3	539.4	637.8	714.5	675.4	636.3	731.7	717.6
70°	8176.3	3089.2	456.5	442.4	497.1	578.4	656.6	631.6	597.2	673.8	648.8
72.5°	6297.2	2468.5	400.2	401.8	448.7	517.5	598.8	581.6	551.9	590.9	575.3
75°	3834.9	1577.4	348.6	351.8	390.8	459.6	544.0	531.5	495.6	517.5	509.7
77.5°	1699.4	781.7	293.9	300.2	331.4	404.9	473.7	453.4	415.9	420.5	417.4
80°	659.7	370.5	239.2	247.0	267.3	323.6	392.4	373.6	340.8	334.6	331.4
82.5°	317.4	206.4	184.5	187.6	195.4	258.0	337.7	314.2	270.5	242.3	242.3
85°	159.5	128.2	129.8	118.8	129.8	175.1	228.2	190.7	157.9	140.7	143.8
87.5°	64.1	64.1	64.1	54.7	57.8	82.9	106.3	71.9	65.7	39.1	39.1
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)