

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: P476632

Luminaire Tested: **IFLD-S-SA2C-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476632  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

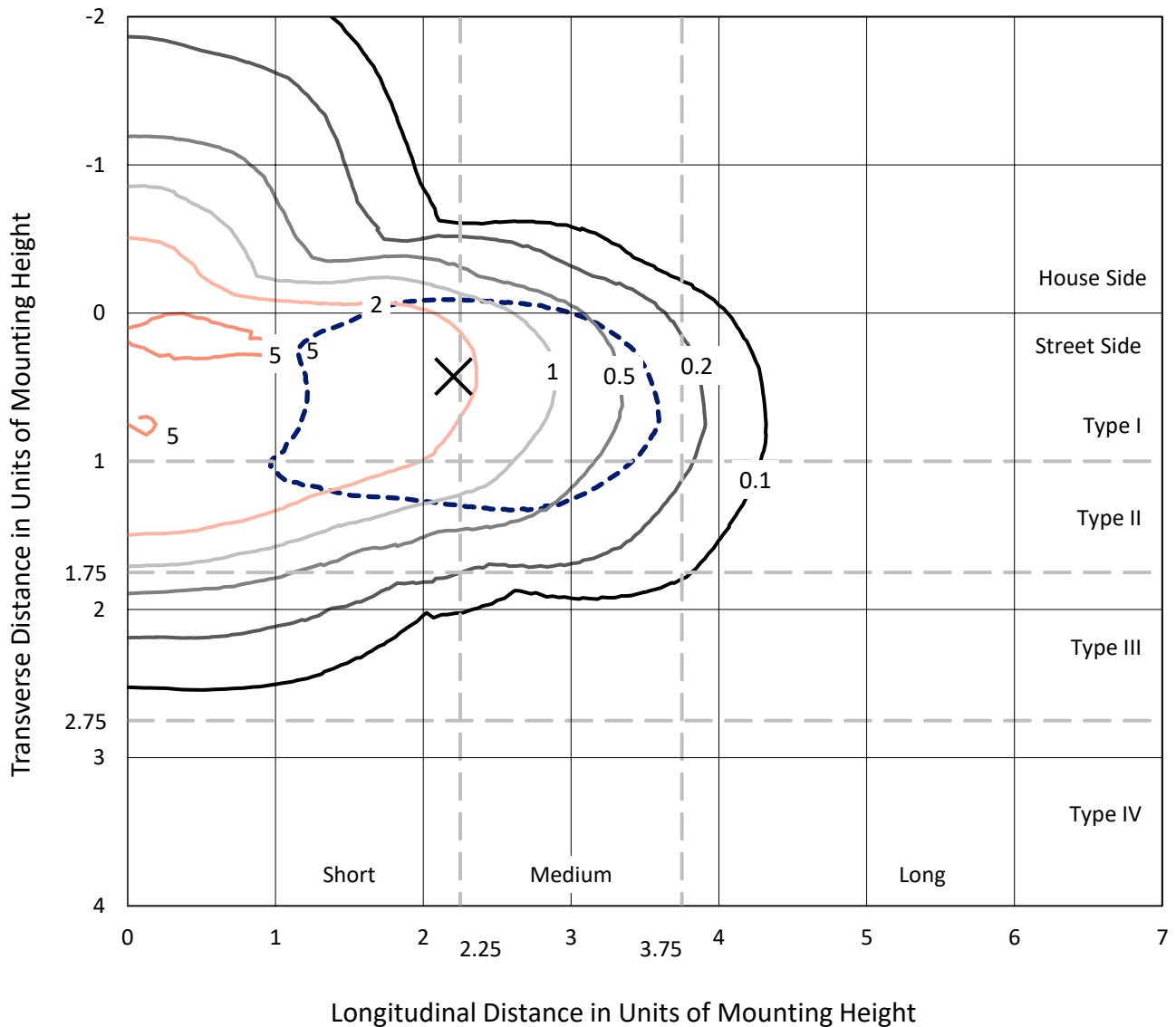
Lumens per Lamp: N/A  
Luminaire Lumens: 14521.3 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

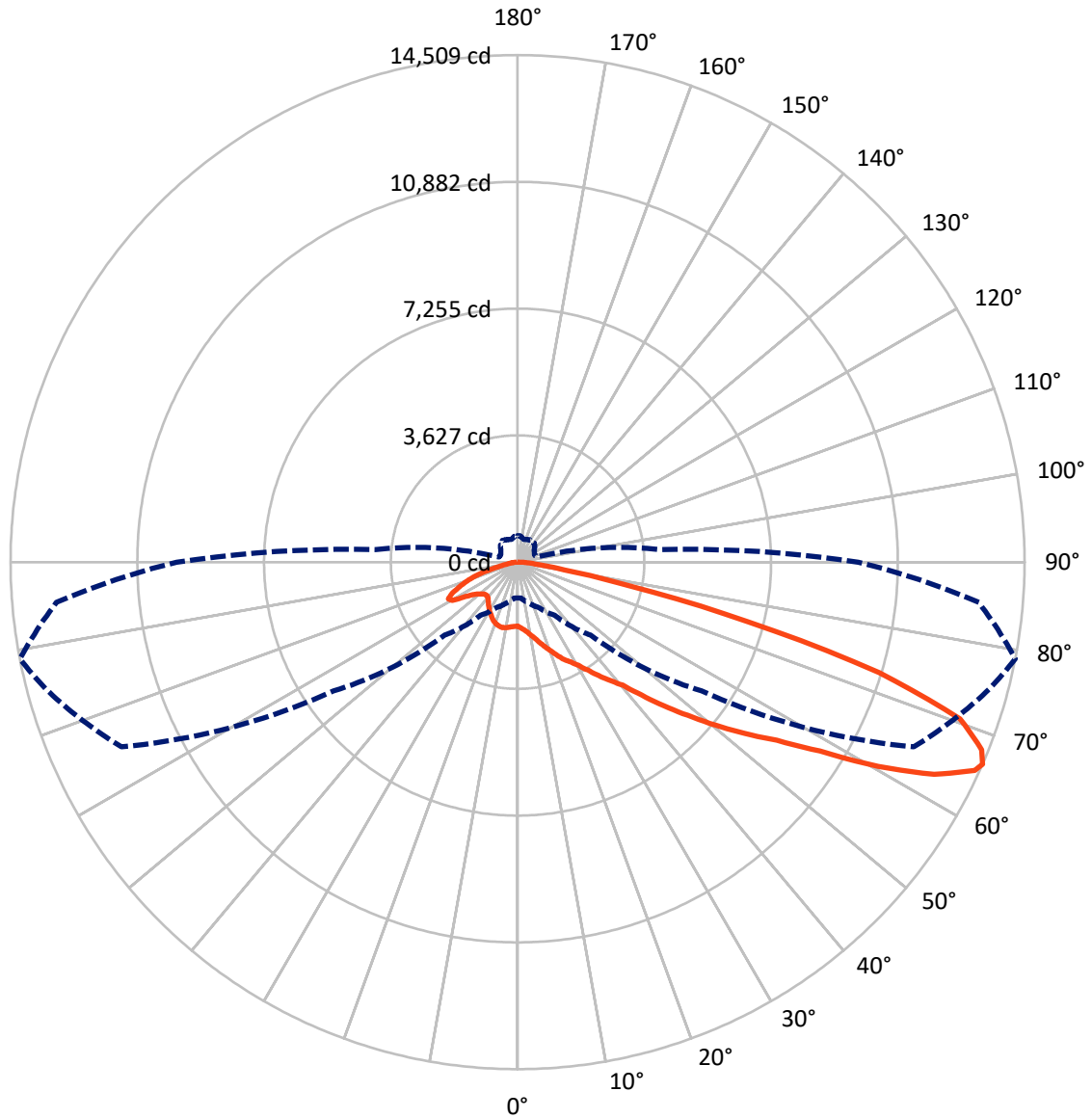
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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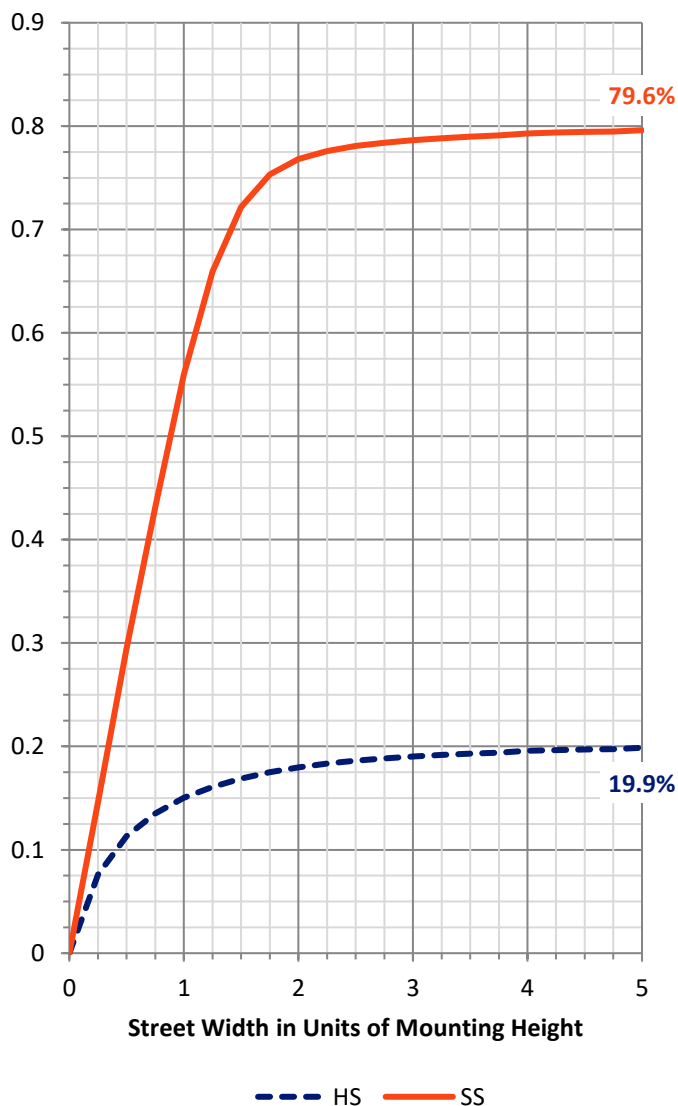
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2932.4	0.0	2932.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	11589.0	0.0	11589.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	14521.3	0.0	14521.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	1.2
10°-20°	556.8	3.8
20°-30°	955.7	6.6
30°-40°	1476.4	10.2
40°-50°	2364.8	16.3
50°-60°	3530.8	24.3
60°-70°	3627.9	25.0
70°-80°	1608.2	11.1
80°-90°	220.7	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°	14521.3	100.0
0°-180°	14521.3	100.0

**Coefficient of Utilization**



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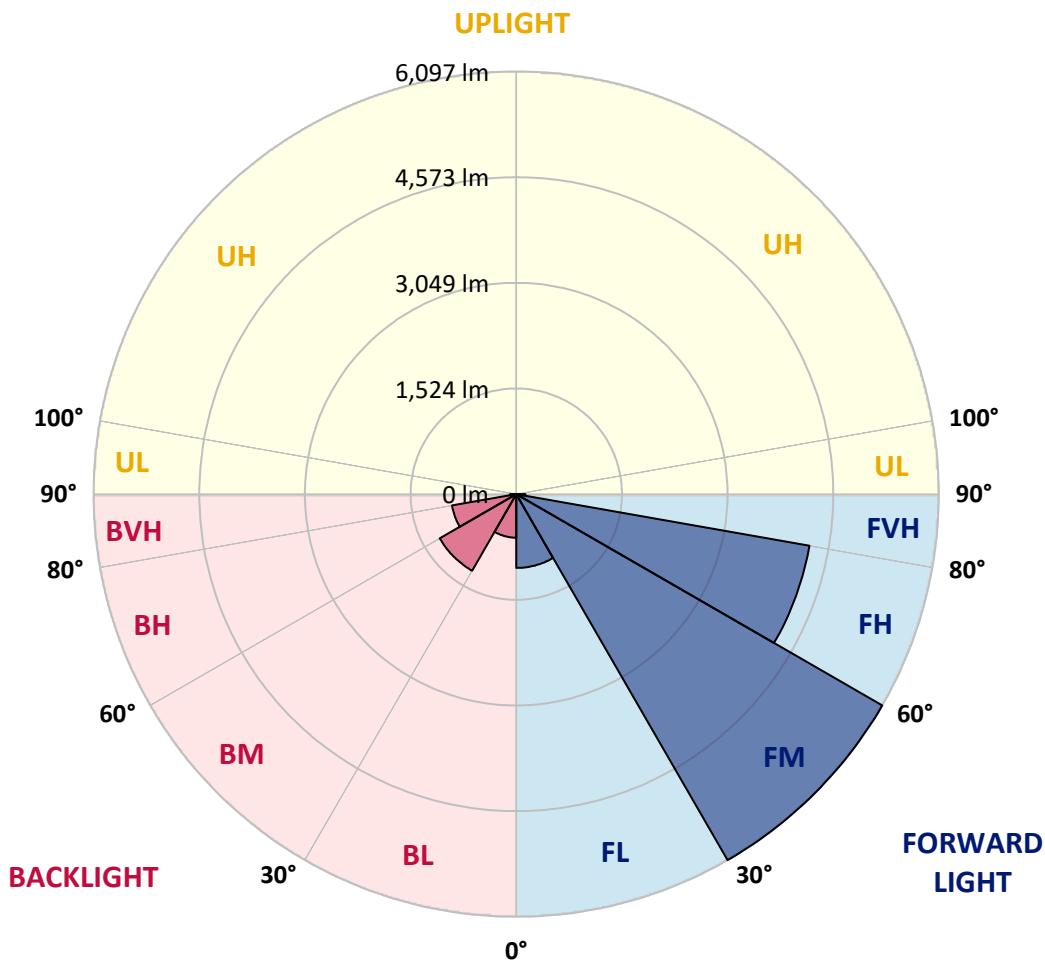
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.5	7.3			
FM (30°-60°)	6097.0	42.0			
FH (60°-80°)	4295.1	29.6			G2/5000
FVH (80°-90°)	132.3	0.9			G2/225
BL (0°-30°)	628.3	4.3	B2/1000		
BM (30°-60°)	1274.9	8.8	B2/2500		
BH (60°-80°)	940.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	88.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6
2.5°	1950.2	1951.8	1951.8	1945.5	1947.0	1951.8	1934.3	1895.9	1895.9	1889.5	1878.4
5°	2070.0	2062.0	2050.9	2052.5	2046.1	2046.1	2026.9	1990.2	1958.2	1945.5	1911.9
7.5°	2086.0	2094.0	2092.4	2111.6	2121.1	2121.1	2130.7	2100.4	2052.5	2022.1	1988.6
10°	2118.0	2097.2	2095.6	2140.3	2154.7	2188.2	2226.6	2210.6	2170.7	2127.5	2082.8
12.5°	2137.1	2149.9	2149.9	2172.3	2205.8	2255.3	2322.4	2352.7	2290.5	2245.7	2177.1
15°	2165.9	2148.3	2199.4	2218.6	2282.5	2317.6	2413.4	2491.7	2450.2	2395.9	2287.3
17.5°	2178.6	2167.5	2196.2	2231.4	2340.0	2392.7	2509.3	2617.9	2582.8	2547.6	2435.8
20°	2244.1	2242.5	2255.3	2284.1	2362.3	2466.2	2611.5	2761.6	2774.4	2710.5	2558.8
22.5°	2403.9	2383.1	2383.1	2371.9	2405.5	2512.5	2708.9	2916.6	2974.1	2899.0	2697.8
25°	2550.8	2579.6	2562.0	2510.9	2498.1	2554.0	2779.2	3081.1	3157.8	3087.5	2886.2
27.5°	2739.3	2748.9	2779.2	2710.5	2622.7	2640.3	2855.9	3173.7	3331.9	3237.6	2993.2
30°	3010.8	2993.2	2986.9	2910.2	2795.2	2771.2	2943.7	3309.5	3560.3	3427.7	3119.4
32.5°	3194.5	3237.6	3236.0	3130.6	2991.6	2938.9	3052.3	3437.3	3804.6	3681.7	3352.6
35°	3558.7	3603.4	3568.3	3413.3	3250.4	3145.0	3208.9	3603.4	4084.2	3988.3	3550.7
37.5°	4023.5	4128.9	4053.8	3767.9	3537.9	3422.9	3426.1	3783.9	4370.1	4291.8	3763.1
40°	4344.5	4486.7	4382.9	4114.5	3870.1	3761.5	3718.4	3997.9	4711.9	4628.8	4095.3
42.5°	4742.2	4860.4	4806.1	4541.0	4255.1	4162.4	4076.2	4355.7	5234.2	5195.9	4521.8
45°	5176.7	5232.6	5215.0	5047.3	4729.5	4697.5	4507.4	4826.9	5849.1	5865.1	5055.3
47.5°	5580.8	5611.1	5644.7	5523.3	5325.2	5352.4	5004.2	5331.6	6446.5	6551.9	5649.5
50°	5684.6	5788.4	5866.7	5948.2	5991.3	6175.0	5552.0	5951.4	7133.3	7337.8	6310.7
52.5°	5579.2	5571.2	5809.2	6064.8	6496.0	6881.0	6298.0	6721.2	7740.3	8144.4	6916.1
55°	5100.0	5084.0	5467.4	5806.0	6647.8	7273.9	7363.3	7746.7	8473.4	8998.9	7735.5
57.5°	4261.5	4162.4	4580.9	5136.8	6318.7	7317.0	8433.5	9268.8	9601.1	10200.0	8986.1
60°	2863.9	2822.3	3223.2	3886.1	5130.4	6705.3	9074.0	11174.4	11190.3	11864.4	10926.8
62.5°	1763.4	1771.3	2028.5	2525.3	3592.2	5315.6	8797.7	12696.5	12699.7	13375.4	12524.0
65°	1153.2	1158.0	1365.6	1640.4	2244.1	3605.0	7275.5	12816.3	13749.1	14376.8	13255.6
66°	1027.0	1028.6	1207.5	1431.1	1859.2	2950.1	6425.7	12504.9	13985.5	14509.4	13246.0
67.5°	865.7	886.5	1030.2	1202.7	1450.3	2119.6	5098.4	11604.0	13864.1	14324.1	12945.7
70°	677.2	688.4	801.8	977.5	1087.7	1226.7	3030.0	9458.9	12690.1	13436.1	11853.2
72.5°	543.1	552.6	638.9	793.8	883.3	808.2	1650.0	6863.4	10024.3	10819.8	9323.1
75°	458.4	460.0	501.5	624.5	726.7	607.0	878.5	4405.2	6432.1	6802.7	5711.8
77.5°	370.6	377.0	405.7	476.0	584.6	477.6	523.9	2467.8	3229.6	3256.8	2640.3
80°	301.9	305.1	322.6	346.6	445.6	353.0	354.6	1204.3	1384.8	1352.9	1073.4
82.5°	238.0	241.2	261.9	257.2	327.4	252.4	220.4	579.8	637.3	624.5	493.6
85°	134.2	134.2	206.0	206.0	207.6	159.7	134.2	273.1	337.0	314.7	231.6
87.5°	43.1	44.7	62.3	65.5	103.8	71.9	65.5	102.2	159.7	140.6	83.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6	1833.6
2.5°	1872.0	1846.4	1835.2	1798.5	1788.9	1765.0	1753.8	1739.4	1734.6	1713.8	1733.0
5°	1886.4	1878.4	1833.6	1787.3	1752.2	1736.2	1712.3	1680.3	1677.1	1648.4	1645.2
7.5°	1947.0	1919.9	1841.6	1792.1	1721.8	1681.9	1629.2	1613.2	1592.5	1582.9	1603.6
10°	2041.3	1972.6	1856.0	1731.4	1645.2	1597.2	1558.9	1547.7	1549.3	1542.9	1533.4
12.5°	2108.4	2042.9	1832.0	1680.3	1568.5	1522.2	1519.0	1530.2	1547.7	1539.7	1550.9
15°	2204.2	2081.2	1814.5	1595.7	1506.2	1493.4	1491.8	1525.4	1523.8	1523.8	1522.2
17.5°	2293.7	2119.6	1750.6	1522.2	1440.7	1450.3	1461.5	1459.9	1475.9	1482.2	1493.4
20°	2407.1	2164.3	1661.1	1448.7	1391.2	1388.0	1386.4	1388.0	1404.0	1413.6	1405.6
22.5°	2506.1	2173.9	1586.1	1378.4	1332.1	1319.3	1298.6	1319.3	1311.3	1314.5	1324.1
25°	2592.3	2175.5	1479.1	1325.7	1273.0	1244.3	1228.3	1226.7	1212.3	1210.7	1210.7
27.5°	2664.2	2121.1	1384.8	1252.2	1202.7	1175.6	1174.0	1156.4	1119.7	1095.7	1098.9
30°	2720.1	2079.6	1319.3	1188.4	1140.4	1135.6	1121.3	1081.3	1033.4	1003.1	1003.1
32.5°	2819.1	1996.6	1229.9	1122.9	1098.9	1092.5	1059.0	1023.8	979.1	950.4	945.6
35°	2892.6	1919.9	1170.8	1067.0	1055.8	1043.0	1014.3	975.9	963.1	956.8	961.5
37.5°	2975.7	1833.6	1098.9	1019.0	1030.2	1006.3	972.7	955.2	999.9	988.7	993.5
40°	3108.2	1772.9	1028.6	990.3	1001.5	974.3	931.2	924.8	980.7	940.8	931.2
42.5°	3351.0	1771.3	985.5	947.2	955.2	934.4	896.1	892.9	915.2	867.3	852.9
45°	3652.9	1827.3	953.6	915.2	908.8	905.6	892.9	878.5	859.3	797.0	781.1
47.5°	4013.9	1918.3	947.2	867.3	875.3	902.4	886.5	849.7	800.2	760.3	752.3
50°	4451.5	2106.8	931.2	832.2	846.5	889.7	876.9	825.8	781.1	755.5	750.7
52.5°	4935.5	2344.8	910.4	777.9	809.8	878.5	884.9	837.0	771.5	749.1	745.9
55°	5505.7	2696.2	886.5	718.8	766.7	867.3	884.9	805.0	758.7	758.7	755.5
57.5°	6631.8	3328.7	837.0	664.5	728.3	846.5	859.3	806.6	760.3	760.3	753.9
60°	8283.3	4315.8	742.7	622.9	691.6	817.8	840.2	782.7	742.7	752.3	750.7
62.5°	9575.5	4616.1	662.9	583.0	654.9	765.1	814.6	757.1	722.0	757.1	760.3
65°	9851.8	4312.6	581.4	539.9	603.8	714.0	777.9	720.4	691.6	760.3	763.5
66°	9752.8	4076.2	552.6	527.1	581.4	688.4	755.5	707.6	675.6	757.1	758.7
67.5°	9312.0	3721.6	520.7	499.9	551.1	651.7	729.9	690.0	650.1	747.5	733.1
70°	8353.6	3156.2	466.4	452.0	507.9	591.0	670.8	645.3	610.1	688.4	662.9
72.5°	6433.7	2522.1	408.9	410.5	458.4	528.7	611.7	594.2	563.8	603.8	587.8
75°	3918.1	1611.6	356.2	359.4	399.3	469.6	555.8	543.1	506.3	528.7	520.7
77.5°	1736.2	798.6	300.3	306.7	338.6	413.7	484.0	463.2	424.9	429.7	426.5
80°	674.0	378.5	244.4	252.4	273.1	330.6	400.9	381.7	348.2	341.8	338.6
82.5°	324.2	210.8	188.5	191.7	199.7	263.5	345.0	321.0	276.3	247.6	247.6
85°	162.9	131.0	132.6	121.4	132.6	178.9	233.2	194.9	161.3	143.8	146.9
87.5°	65.5	65.5	65.5	55.9	59.1	84.7	108.6	73.5	67.1	39.9	39.9
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)