

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: P480766

Luminaire Tested: **IFLD-S-SA2C-727-U-SL4**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P480766  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

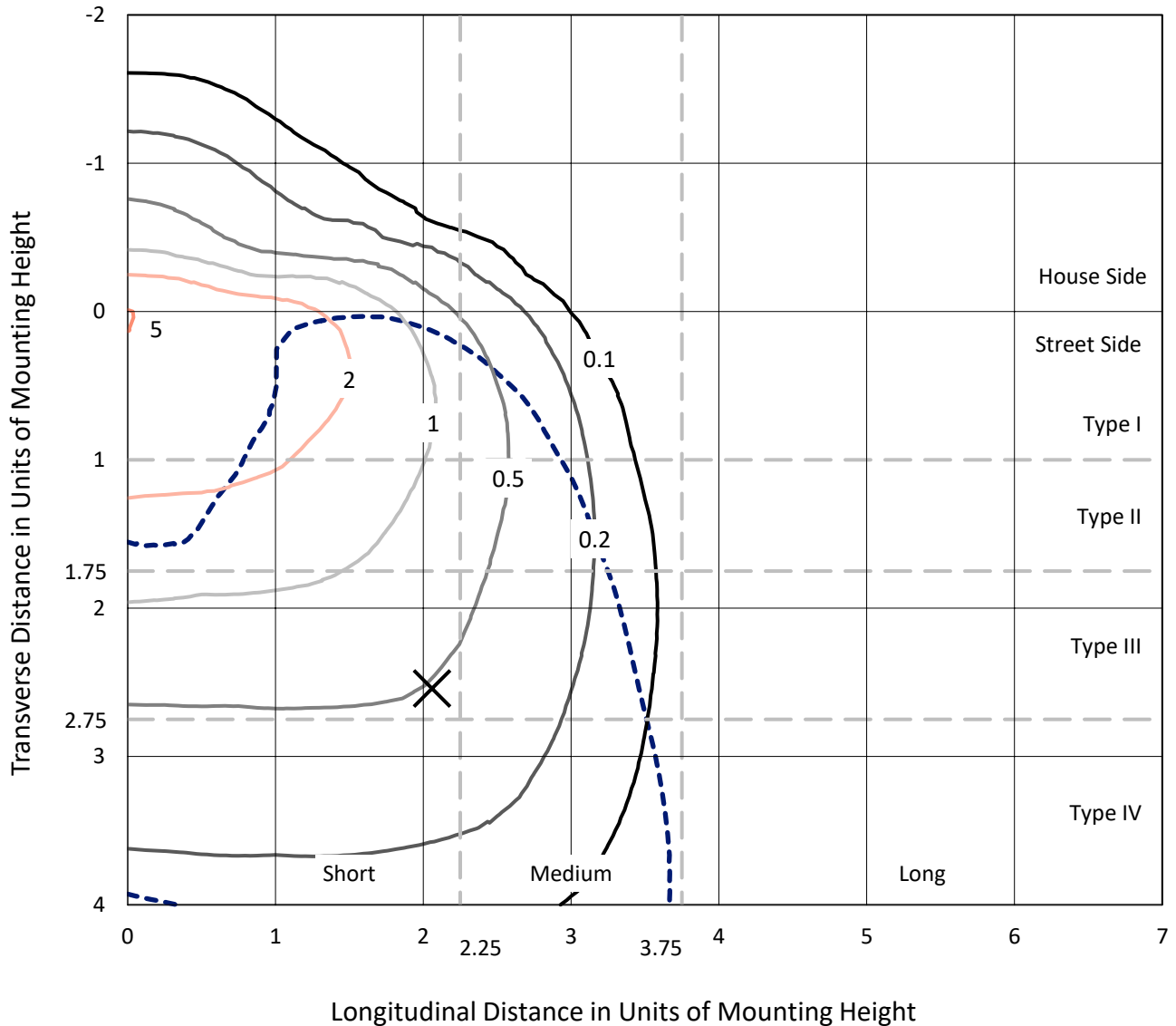
Lumens per Lamp: N/A  
Luminaire Lumens: 11497.7 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

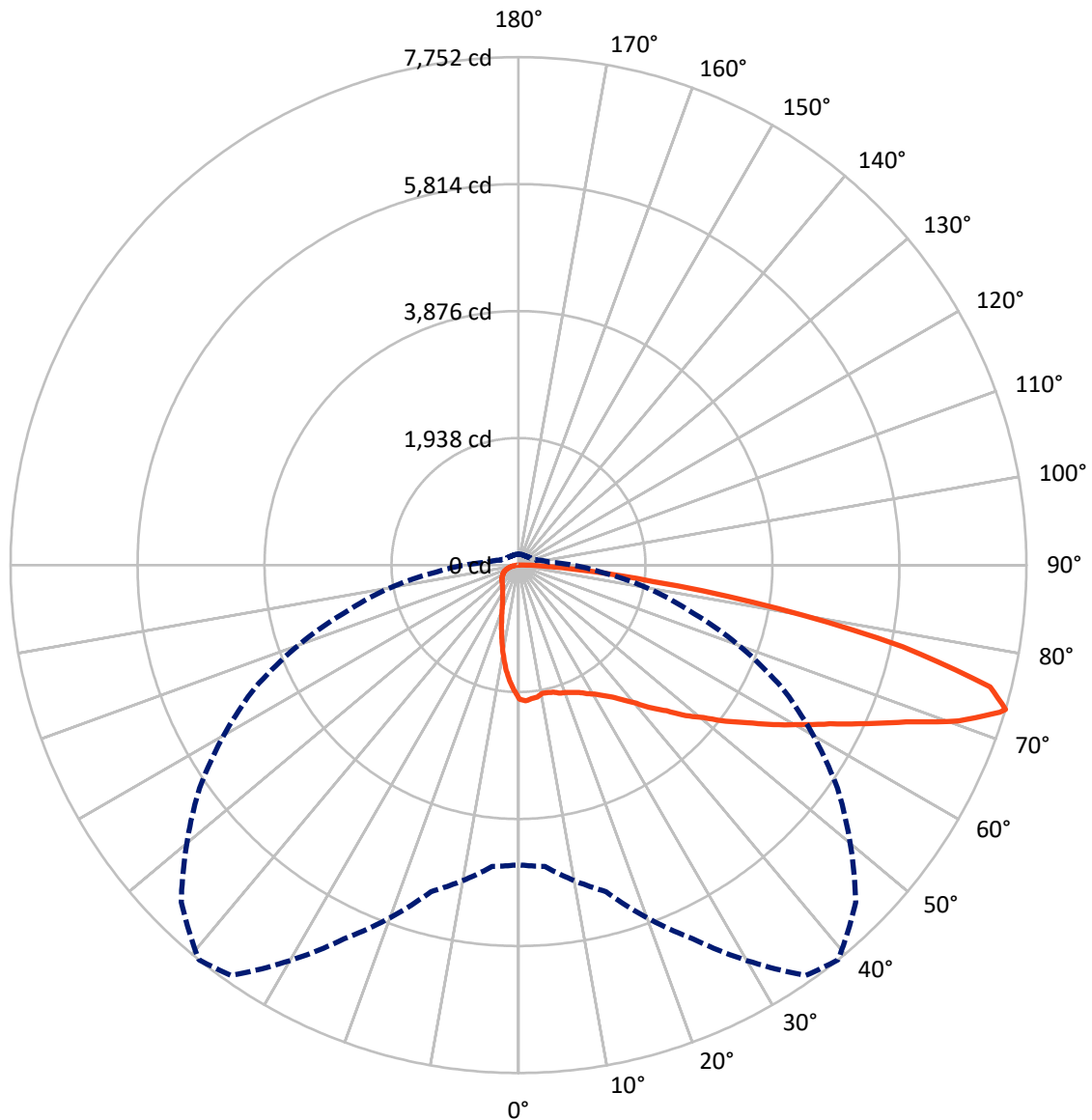
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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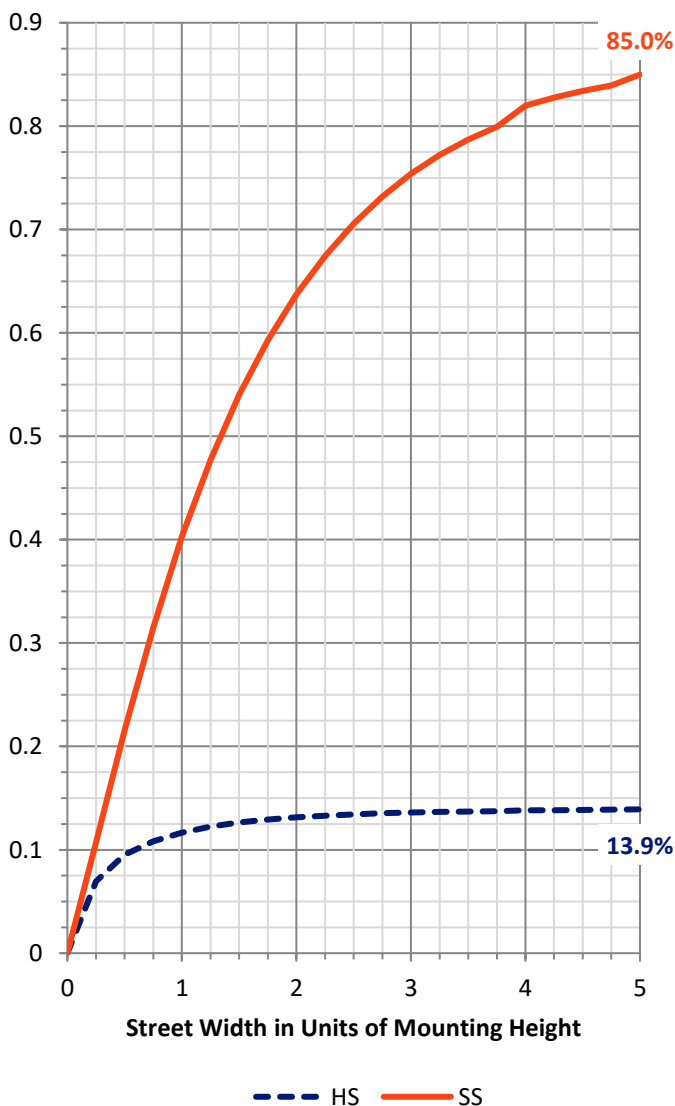
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1616.3	0.0	1616.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	9881.5	0.0	9881.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	11497.7	0.0	11497.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.7	1.5
10°-20°	451.7	3.9
20°-30°	690.2	6.0
30°-40°	1006.3	8.8
40°-50°	1520.6	13.2
50°-60°	2202.0	19.2
60°-70°	2797.7	24.3
70°-80°	2268.0	19.7
80°-90°	383.7	3.3
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°	11497.7	100.0
0°-180°	11497.7	100.0

**Coefficient of Utilization**

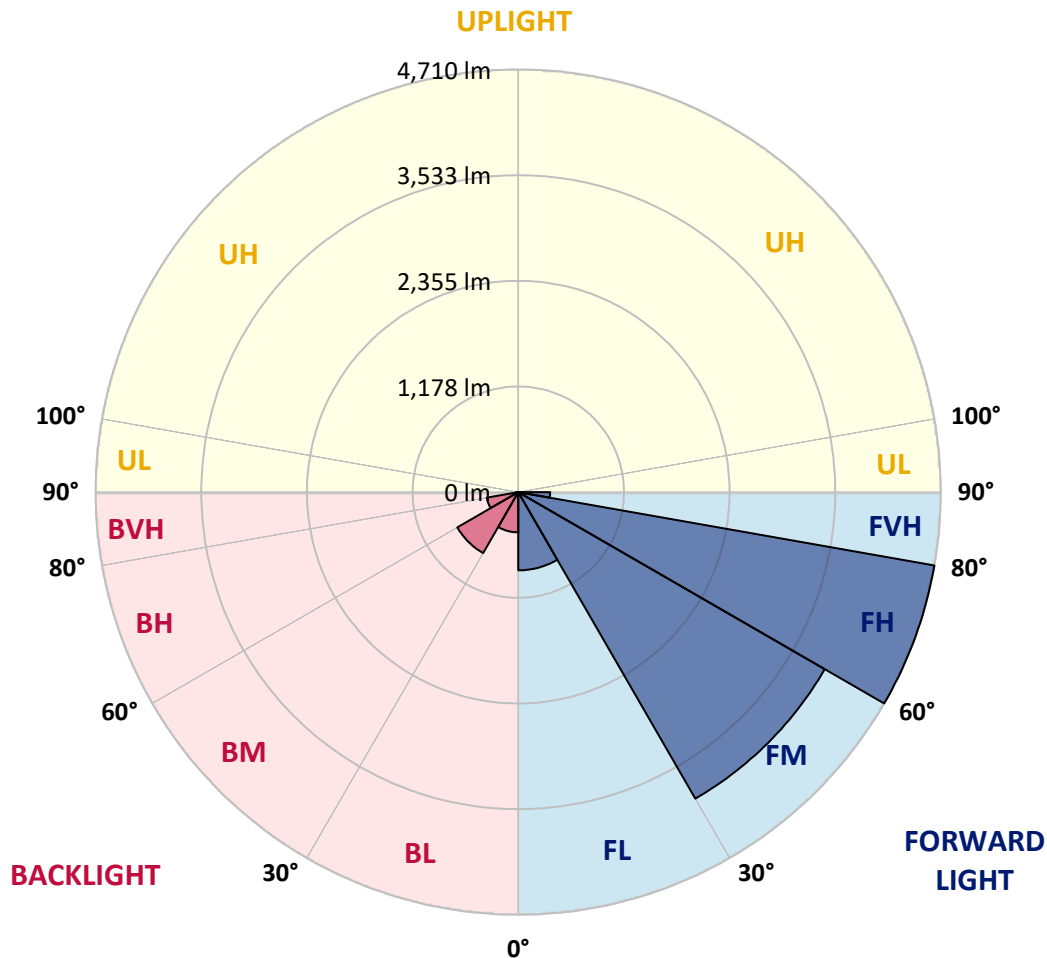


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.3	7.6			
FM (30°-60°)	3944.5	34.3			
FH (60°-80°)	4710.2	41.0			G2/5000
FVH (80°-90°)	355.6	3.1			G3/500
BL (0°-30°)	448.2	3.9	B1/500		
BM (30°-60°)	784.4	6.8	B1/1000		
BH (60°-80°)	355.5	3.1	B1/500		G1/500
BVH (80°-90°)	28.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7
2.5°	2095.6	2073.7	2077.5	2069.8	2077.5	2075.0	2071.1	2051.8	2071.1	2051.8	2046.7
5°	2067.2	2067.2	2080.1	2060.8	2063.4	2050.5	2063.4	2049.2	2036.4	2004.2	1995.2
7.5°	2058.2	2057.0	2058.2	2031.2	2044.1	2036.4	2023.5	2008.1	1982.3	1961.8	1932.2
10°	1996.5	2009.4	1995.2	2002.9	2013.2	1990.1	1988.8	1984.9	1973.3	1946.3	1928.3
12.5°	1963.1	1984.9	1992.6	1986.2	1995.2	1997.8	1990.1	1984.9	1970.8	1952.8	1901.3
15°	1977.2	1951.5	1973.3	2015.8	2006.8	2013.2	2014.5	2009.4	2002.9	1969.5	1936.0
17.5°	1981.1	1965.6	2011.9	2020.9	2032.5	2055.7	2040.2	2038.9	2014.5	1991.4	1942.5
20°	1990.1	1983.6	2020.9	2068.5	2069.8	2073.7	2081.4	2062.1	2049.2	2009.4	1934.7
22.5°	2023.5	2045.4	2080.1	2100.7	2112.3	2114.8	2114.8	2076.3	2062.1	2029.9	1970.8
25°	2123.9	2100.7	2149.6	2174.0	2157.3	2153.4	2144.4	2109.7	2094.3	2066.0	1987.5
27.5°	2197.2	2195.9	2224.2	2257.6	2212.6	2221.6	2189.5	2179.2	2144.4	2129.0	2017.1
30°	2297.5	2325.8	2324.5	2334.8	2275.6	2285.9	2244.8	2225.5	2206.2	2215.2	2104.6
32.5°	2426.2	2415.9	2432.6	2424.9	2365.7	2374.7	2325.8	2296.2	2302.7	2329.7	2224.2
35°	2508.5	2498.2	2504.6	2504.6	2486.6	2476.3	2455.7	2417.2	2448.0	2498.2	2358.0
37.5°	2597.2	2610.1	2647.4	2639.7	2616.5	2616.5	2614.0	2587.0	2626.8	2750.3	2571.5
40°	2675.7	2710.5	2733.6	2749.0	2776.1	2776.1	2797.9	2782.5	2854.5	3052.6	2832.7
42.5°	2758.0	2759.3	2885.4	2897.0	2957.4	2983.2	2999.9	3012.8	3147.8	3369.1	3111.8
45°	2863.5	2870.0	2980.6	3069.4	3163.3	3172.3	3235.3	3277.8	3443.7	3715.1	3415.4
47.5°	3002.5	2994.7	3113.1	3254.6	3371.7	3433.4	3509.3	3555.6	3760.2	4090.8	3747.3
50°	3185.1	3162.0	3230.2	3452.7	3590.3	3658.5	3793.6	3870.8	4110.1	4449.7	3975.0
52.5°	3407.7	3369.1	3423.1	3666.2	3820.6	3958.3	4086.9	4173.1	4422.7	4727.5	4143.5
55°	3643.1	3563.3	3578.8	3892.7	4115.2	4245.1	4421.4	4511.4	4766.1	4977.1	4312.0
57.5°	3875.9	3825.8	3794.9	4110.1	4466.4	4591.2	4753.3	4870.3	5086.4	5198.4	4454.8
60°	4071.5	4058.6	4008.4	4447.1	4838.2	4944.9	5114.7	5186.8	5350.1	5402.9	4457.4
62.5°	4232.3	4188.5	4268.3	4718.5	5216.4	5337.3	5523.8	5530.2	5646.0	5530.2	4326.2
65°	4358.3	4360.9	4488.3	5046.6	5653.7	5832.5	5983.1	5966.3	5891.7	5454.3	4016.1
67.5°	4472.8	4521.7	4708.2	5406.8	6215.9	6384.4	6551.6	6330.4	5958.6	5099.3	3410.3
70°	4562.9	4611.8	5005.4	5845.4	6878.4	7125.4	7162.7	6474.5	5651.2	4319.7	2572.8
72.5°	4552.6	4641.3	5173.9	6195.3	7466.3	7679.8	7378.8	6069.2	4708.2	3011.5	1501.2
73°	4574.4	4618.2	5159.8	6293.1	7645.1	7751.9	7278.5	5941.9	4440.7	2701.4	1269.7
75°	4152.5	4300.4	4903.8	6133.6	7453.4	7434.1	6702.2	4951.4	3156.8	1418.9	614.9
77.5°	3071.9	3165.8	3864.4	5044.0	6118.1	5994.6	5055.6	3164.6	1498.7	526.1	331.9
80°	1501.2	1574.6	2048.0	2912.4	4000.7	4011.0	3137.5	1646.6	641.9	297.2	226.4
82.5°	750.0	793.7	984.1	1280.0	1968.2	2062.1	1591.3	936.5	397.5	168.5	128.6
85°	490.1	521.0	605.9	626.5	834.9	881.2	741.0	730.7	258.6	91.3	104.2
87.5°	325.5	330.6	371.8	316.5	334.5	321.6	357.6	460.5	75.9	38.6	28.3
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°	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7	2046.7
2.5°	2040.2	2022.2	2002.9	1975.9	1956.6	1927.0	1900.0	1888.4	1885.9	1887.2	1874.3
5°	1987.5	1961.8	1923.2	1867.9	1835.7	1786.8	1745.6	1723.8	1700.6	1704.5	1694.2
7.5°	1914.2	1885.9	1826.7	1762.4	1682.6	1613.1	1574.6	1520.5	1489.7	1466.5	1479.4
10°	1891.0	1842.1	1753.4	1664.6	1541.1	1449.8	1361.0	1299.3	1256.8	1215.7	1233.7
12.5°	1879.4	1830.6	1707.1	1575.8	1416.3	1277.4	1152.6	1076.7	1016.3	980.2	994.4
15°	1869.1	1808.7	1663.3	1478.1	1299.3	1116.6	976.4	876.0	818.2	783.4	787.3
17.5°	1883.3	1797.1	1599.0	1382.9	1170.6	975.1	819.4	715.2	656.1	634.2	629.1
20°	1869.1	1784.2	1536.0	1287.7	1042.0	840.0	690.8	604.6	563.4	545.4	541.6
22.5°	1874.3	1753.4	1470.4	1182.2	922.4	726.8	604.6	539.0	506.8	497.8	500.4
25°	1898.7	1735.4	1404.8	1066.4	804.0	643.2	549.3	499.1	476.0	467.0	469.5
27.5°	1916.7	1750.8	1345.6	957.1	703.7	568.6	503.0	469.5	454.1	447.7	446.4
30°	1961.8	1759.8	1287.7	859.3	621.3	519.7	470.8	443.8	433.5	429.7	428.4
32.5°	2028.7	1776.5	1220.8	769.3	560.9	473.4	445.1	421.9	419.4	415.5	416.8
35°	2138.0	1834.4	1146.2	692.1	503.0	442.5	418.1	402.6	402.6	402.6	406.5
37.5°	2294.9	1915.5	1079.3	618.8	465.7	415.5	394.9	389.8	387.2	391.1	393.6
40°	2496.9	2013.2	1025.3	560.9	433.5	397.5	379.5	376.9	375.6	374.3	376.9
42.5°	2718.2	2138.0	979.0	515.8	410.4	378.2	365.3	362.8	357.6	360.2	364.1
45°	2938.1	2292.4	937.8	479.8	394.9	367.9	349.9	348.6	346.0	344.8	351.2
47.5°	3182.6	2444.2	924.9	458.0	383.3	352.5	339.6	338.3	330.6	329.3	334.5
50°	3372.9	2556.1	939.1	447.7	366.6	340.9	331.9	325.5	319.0	312.6	312.6
52.5°	3504.2	2633.3	949.4	439.9	357.6	325.5	313.9	311.3	304.9	298.4	295.9
55°	3622.5	2679.6	951.9	441.2	348.6	307.5	299.7	298.4	294.6	284.3	281.7
57.5°	3662.4	2660.3	900.5	429.7	343.5	295.9	285.6	288.2	283.0	274.0	272.7
60°	3658.5	2526.5	783.4	414.2	331.9	283.0	270.1	277.9	277.9	267.6	266.3
62.5°	3436.0	2217.8	640.6	384.6	319.0	270.1	256.0	267.6	271.4	265.0	263.7
65°	2974.2	1806.1	535.1	355.0	299.7	256.0	241.8	254.7	261.1	258.6	257.3
67.5°	2460.9	1381.6	445.1	316.5	275.3	236.7	225.1	234.1	238.0	239.3	240.6
70°	1739.2	919.8	371.8	274.0	241.8	216.1	203.3	204.5	203.3	207.1	207.1
72.5°	945.5	530.0	302.3	232.8	208.4	187.8	178.8	172.4	172.4	171.1	171.1
73°	809.1	476.0	288.2	226.4	199.4	182.7	172.4	167.2	167.2	165.9	164.7
75°	454.1	348.6	247.0	194.2	172.4	159.5	151.8	144.1	142.8	142.8	142.8
77.5°	298.4	271.4	196.8	155.7	138.9	127.4	124.8	117.1	117.1	117.1	115.8
80°	223.8	213.5	151.8	118.3	106.8	97.8	95.2	90.0	88.8	83.6	84.9
82.5°	149.2	168.5	110.6	83.6	72.0	66.9	66.9	65.6	61.7	55.3	55.3
85°	118.3	137.6	79.8	51.5	42.5	36.0	37.3	36.0	34.7	28.3	27.0
87.5°	21.9	55.3	23.2	14.2	10.3	6.4	6.4	3.9	2.6	0.0	0.0
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)