

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: P479985

Luminaire Tested: **IFLD-S-SA2B-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479985  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

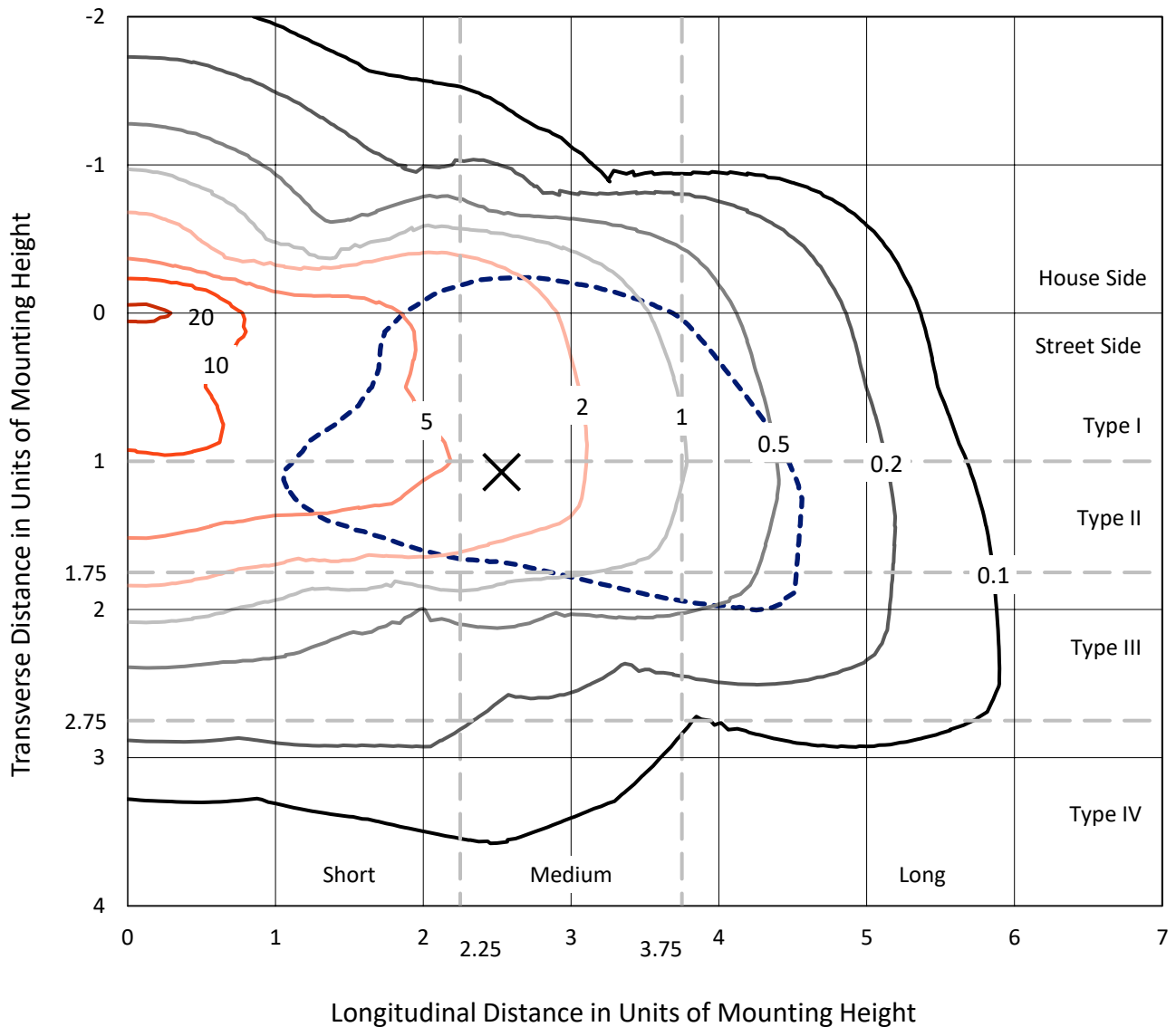
Lumens per Lamp: N/A  
Luminaire Lumens: 9520.6 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 82.4  
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

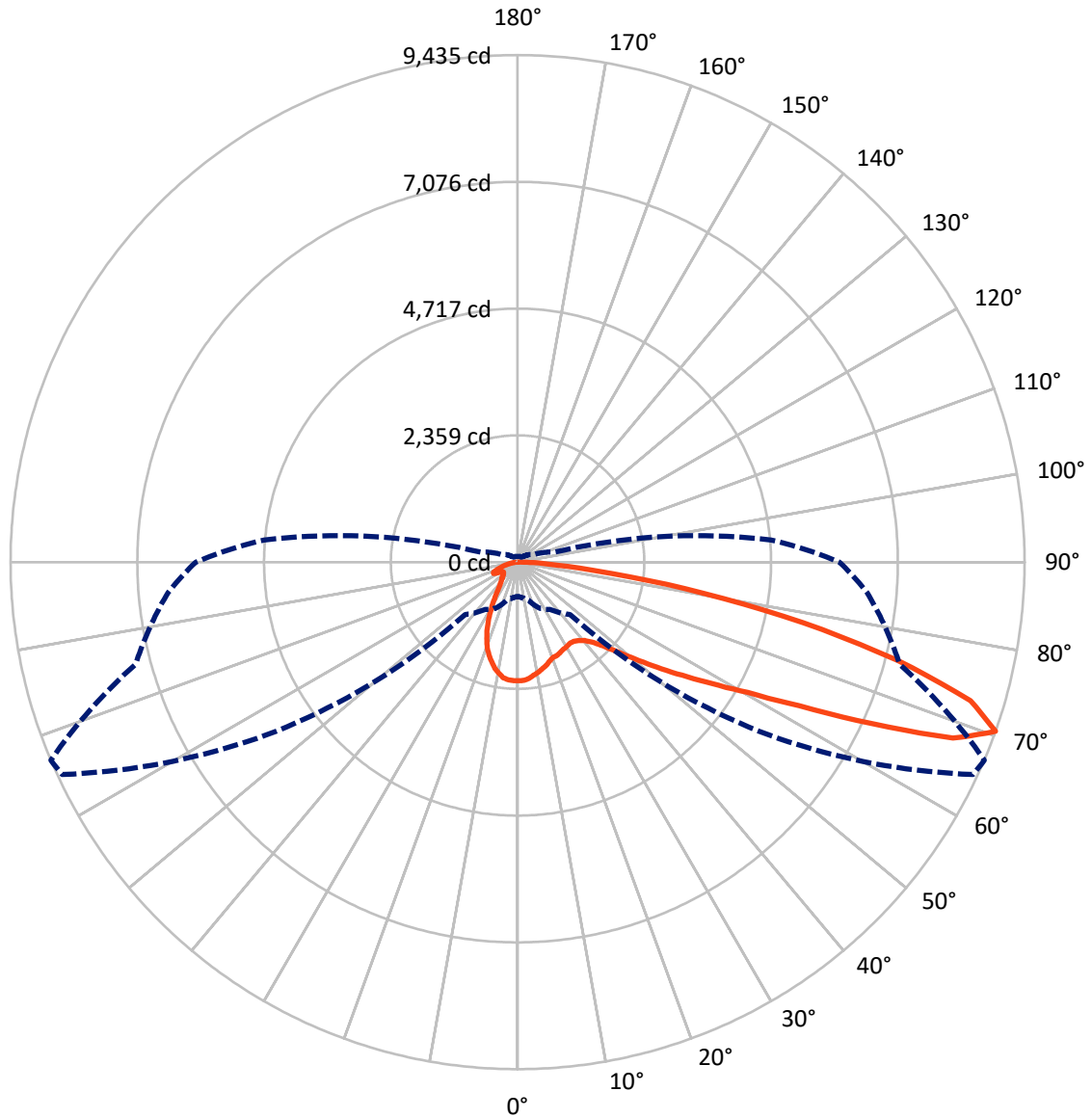
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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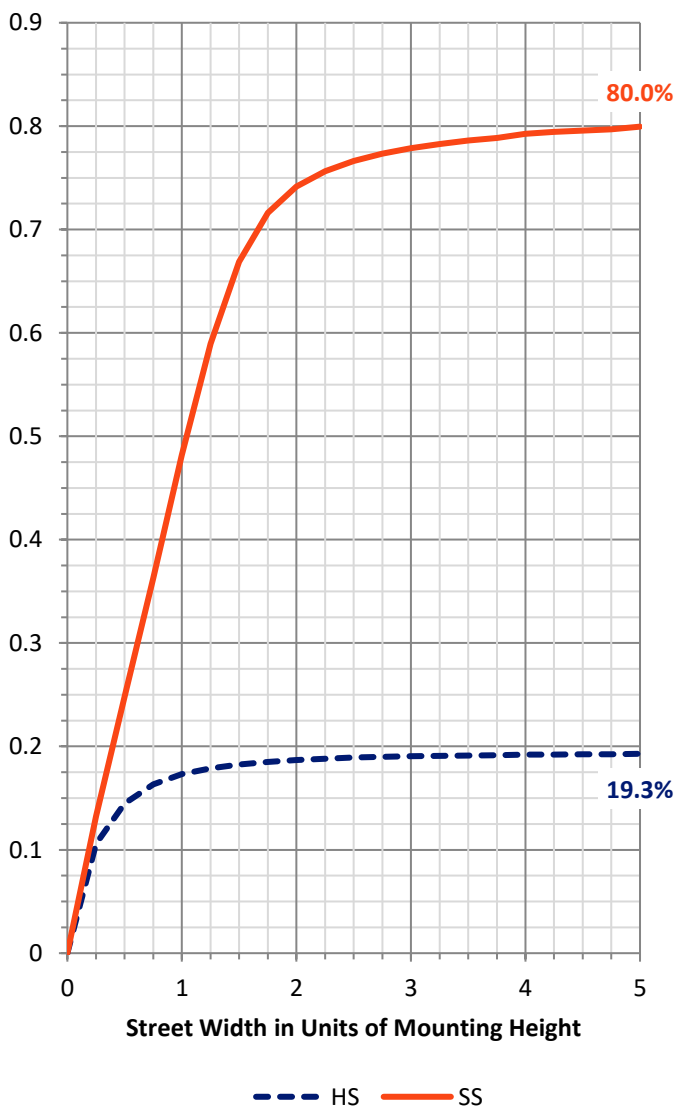
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1854.2	0.0	1854.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	7666.4	0.0	7666.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	9520.6	0.0	9520.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.3	2.0
10°-20°	460.6	4.8
20°-30°	621.9	6.5
30°-40°	832.2	8.7
40°-50°	1223.8	12.9
50°-60°	1907.5	20.0
60°-70°	2349.8	24.7
70°-80°	1660.3	17.4
80°-90°	272.1	2.9
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°	9520.6	100.0
0°-180°	9520.6	100.0

**Coefficient of Utilization**

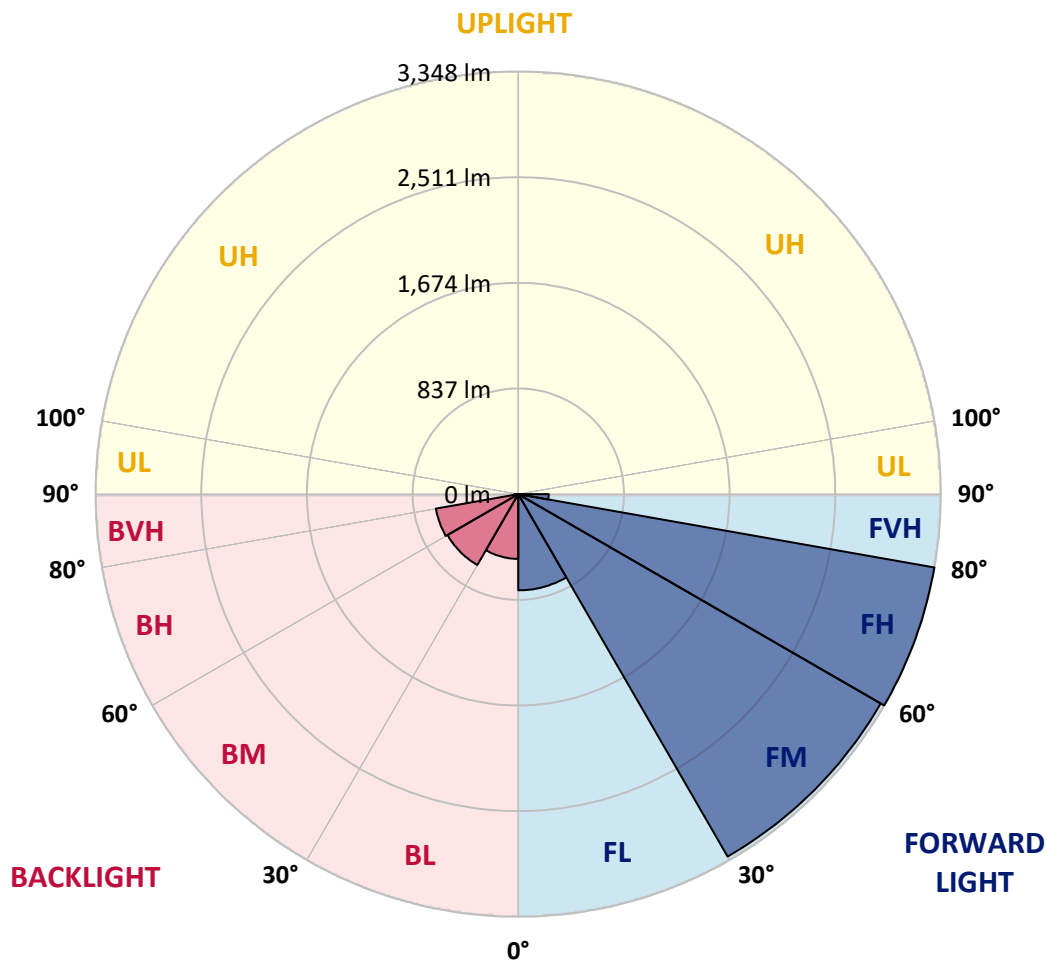


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.1	8.0			
FM (30°-60°)	3315.8	34.8			
FH (60°-80°)	3347.8	35.2			G2/5000
FVH (80°-90°)	240.7	2.5			G3/500
BL (0°-30°)	512.8	5.4	B2/1000		
BM (30°-60°)	647.7	6.8	B1/1000		
BH (60°-80°)	662.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	31.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0
2.5°	2052.2	2075.4	2083.8	2096.5	2129.1	2153.4	2168.1	2185.0	2205.0	2221.9	2232.4
5°	1908.9	1921.5	1941.5	1955.2	1996.3	2061.7	2106.0	2177.6	2175.5	2201.9	2241.9
7.5°	1769.7	1782.4	1791.9	1819.3	1878.3	1937.3	2018.5	2134.4	2126.0	2187.1	2249.3
10°	1683.3	1673.8	1677.0	1723.3	1769.7	1836.1	1938.4	2056.4	2087.0	2181.9	2270.4
12.5°	1602.1	1591.6	1616.9	1646.4	1703.3	1763.4	1885.7	1992.1	2038.5	2162.9	2279.9
15°	1551.5	1544.2	1575.8	1588.4	1655.9	1727.6	1814.0	1943.6	1994.2	2139.7	2265.1
17.5°	1523.1	1529.4	1541.0	1568.4	1611.6	1672.8	1767.6	1911.0	1933.1	2111.2	2262.0
20°	1528.3	1535.7	1536.8	1548.4	1577.9	1625.3	1722.3	1876.2	1890.9	2106.0	2270.4
22.5°	1570.5	1560.0	1564.2	1556.8	1565.2	1602.1	1687.5	1829.8	1886.7	2061.7	2252.5
25°	1633.8	1619.0	1616.9	1591.6	1575.8	1586.3	1681.2	1818.2	1855.1	2048.0	2251.4
27.5°	1745.5	1723.3	1723.3	1685.4	1621.1	1604.2	1663.3	1799.2	1831.9	2035.3	2227.2
30°	1853.0	1853.0	1854.0	1800.3	1728.6	1645.3	1670.6	1791.9	1812.9	1997.4	2194.5
32.5°	1983.7	1980.5	1975.3	1948.9	1838.2	1713.9	1706.5	1782.4	1792.9	1984.7	2185.0
35°	2111.2	2102.8	2143.9	2120.7	2007.9	1847.7	1743.4	1786.6	1809.8	1965.8	2155.5
37.5°	2207.1	2212.4	2297.8	2312.6	2215.6	1999.5	1847.7	1828.7	1850.9	1993.2	2155.5
40°	2331.5	2352.6	2432.7	2482.3	2423.2	2199.8	2013.2	1899.4	1915.2	2054.3	2201.9
42.5°	2494.9	2512.8	2615.1	2679.4	2662.5	2454.8	2176.6	2046.9	2034.3	2156.6	2271.4
45°	2711.0	2714.1	2817.4	2906.0	2940.8	2721.5	2435.9	2233.5	2223.0	2332.6	2399.0
47.5°	2968.2	2965.0	3029.3	3124.2	3218.0	3039.8	2734.2	2517.0	2479.1	2584.5	2610.8
50°	3216.9	3203.2	3218.0	3339.2	3519.4	3438.3	3096.8	2863.8	2825.9	2883.8	2929.2
52.5°	3353.9	3370.8	3330.7	3491.0	3839.8	3909.4	3577.4	3278.0	3245.4	3273.8	3352.9
55°	3258.0	3292.8	3266.5	3418.2	3980.0	4483.9	4199.3	3757.6	3715.5	3704.9	3834.6
57.5°	2850.1	2913.4	2918.6	3158.9	3931.5	4928.7	5074.1	4323.6	4260.4	4152.9	4286.8
60°	2188.2	2251.4	2299.9	2584.5	3516.3	5194.3	6088.1	5128.9	4920.2	4642.0	4722.1
62.5°	1533.6	1576.8	1625.3	1800.3	2711.0	5038.3	6965.1	6263.1	5878.3	5157.4	5257.5
65°	1117.3	1151.0	1200.5	1303.8	1665.4	4168.7	7371.9	7610.1	7245.4	5813.0	5800.4
67.5°	841.1	862.2	927.6	1093.0	1154.2	2575.0	6950.3	9033.1	8737.9	6541.3	6236.7
70°	636.6	654.6	715.7	942.3	1078.3	1380.8	5483.1	9350.3	9434.7	7358.2	6529.7
72.5°	438.5	458.5	527.0	785.3	1026.6	1095.1	3441.4	8494.5	8813.8	7694.5	6215.6
75°	268.8	282.5	322.5	595.5	1019.3	1070.9	1894.1	6960.8	7299.2	7109.5	5437.8
77.5°	189.7	188.7	196.1	348.9	883.3	1077.2	1167.9	5100.5	5429.3	5239.6	3690.2
80°	138.1	139.1	146.5	208.7	599.7	1095.1	920.2	3416.1	3514.2	2732.1	1455.6
82.5°	83.3	87.5	105.4	141.2	360.5	988.7	850.6	1898.3	1776.0	877.0	400.5
85°	44.3	44.3	62.2	89.6	191.8	737.8	819.0	903.3	756.8	271.9	148.6
87.5°	10.5	10.5	17.9	35.8	76.9	353.1	558.6	359.4	287.8	91.7	61.1
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°	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0	2204.0
2.5°	2228.2	2215.6	2231.4	2199.8	2174.5	2175.5	2136.5	2134.4	2129.1	2101.7	2111.2
5°	2253.5	2243.0	2225.1	2190.3	2134.4	2078.6	2044.8	2001.6	1983.7	1974.2	1978.4
7.5°	2277.8	2258.8	2207.1	2158.7	2072.2	1966.8	1905.7	1847.7	1773.9	1765.5	1750.8
10°	2284.1	2244.0	2177.6	2074.3	1959.4	1842.5	1703.3	1595.8	1538.9	1494.6	1477.8
12.5°	2274.6	2257.7	2130.2	1997.4	1823.5	1640.1	1477.8	1326.0	1220.6	1165.8	1151.0
15°	2273.6	2244.0	2077.5	1880.4	1658.0	1418.7	1187.9	1005.5	894.9	849.6	849.6
17.5°	2274.6	2204.0	2015.3	1762.3	1463.0	1139.4	885.4	735.7	674.6	668.3	673.5
20°	2253.5	2174.5	1950.0	1623.2	1218.5	855.9	643.0	581.8	581.8	590.3	593.4
22.5°	2234.6	2130.2	1846.7	1451.4	969.7	619.8	522.8	504.9	524.9	539.7	546.0
25°	2208.2	2093.3	1741.3	1273.3	737.8	499.6	454.3	458.5	477.5	503.8	501.7
27.5°	2170.3	2029.0	1615.8	1066.7	549.2	431.1	419.5	421.6	441.6	453.2	451.1
30°	2127.0	1963.7	1499.9	861.1	435.3	395.3	394.2	399.5	402.6	409.0	407.9
32.5°	2072.2	1877.2	1376.6	669.3	392.1	375.2	371.0	367.9	371.0	370.0	366.8
35°	2033.2	1830.9	1251.1	510.2	367.9	357.3	354.2	348.9	344.7	338.3	337.3
37.5°	2022.7	1784.5	1119.4	416.3	348.9	343.6	333.1	323.6	318.3	315.2	313.0
40°	2016.4	1753.9	990.8	365.7	333.1	327.8	315.2	302.5	297.2	294.1	295.1
42.5°	2038.5	1737.0	860.1	340.5	319.4	309.9	296.2	281.4	280.4	278.3	281.4
45°	2116.5	1758.1	738.9	322.5	305.7	289.9	271.9	264.6	263.5	261.4	263.5
47.5°	2293.6	1810.8	635.6	310.9	290.9	277.2	258.2	247.7	246.6	245.6	245.6
50°	2538.1	1973.2	549.2	297.2	281.4	262.5	244.5	232.9	230.8	226.6	226.6
52.5°	2921.8	2246.1	497.5	289.9	264.6	248.8	229.8	217.1	211.9	207.6	207.6
55°	3353.9	2584.5	488.0	277.2	246.6	231.9	215.0	202.4	197.1	191.8	189.7
57.5°	3846.2	3032.5	555.5	268.8	234.0	215.0	196.1	184.5	180.2	175.0	172.9
60°	4304.7	3479.4	765.2	256.1	222.4	199.2	180.2	168.6	163.4	158.1	158.1
62.5°	4834.9	4032.7	1120.4	256.1	211.9	182.3	163.4	154.9	151.8	146.5	145.5
65°	5462.0	4605.1	1379.7	271.9	208.7	167.6	147.6	139.1	136.0	132.8	131.8
67.5°	5939.5	4933.9	1186.8	314.1	222.4	154.9	131.8	126.5	124.4	121.2	119.1
70°	5990.1	4733.7	715.7	339.4	236.1	142.3	118.1	112.8	112.8	109.6	107.5
72.5°	5535.8	4200.3	481.7	302.5	214.0	127.5	104.3	100.1	98.0	95.9	94.9
75°	4632.5	3562.6	380.5	241.4	164.4	105.4	90.6	86.4	83.3	82.2	80.1
77.5°	3111.5	2315.7	281.4	188.7	121.2	85.4	75.9	71.7	68.5	67.5	64.3
80°	1195.3	882.2	181.3	137.0	85.4	67.5	60.1	55.9	53.8	50.6	48.5
82.5°	352.0	285.6	101.2	84.3	54.8	46.4	43.2	40.1	36.9	33.7	32.7
85°	145.5	130.7	62.2	44.3	33.7	27.4	25.3	22.1	19.0	16.9	14.8
87.5°	67.5	55.9	28.5	16.9	11.6	6.3	3.2	1.1	0.0	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)