

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: P483924

Luminaire Tested: **IFLD-S-SA2B-730-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483924
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

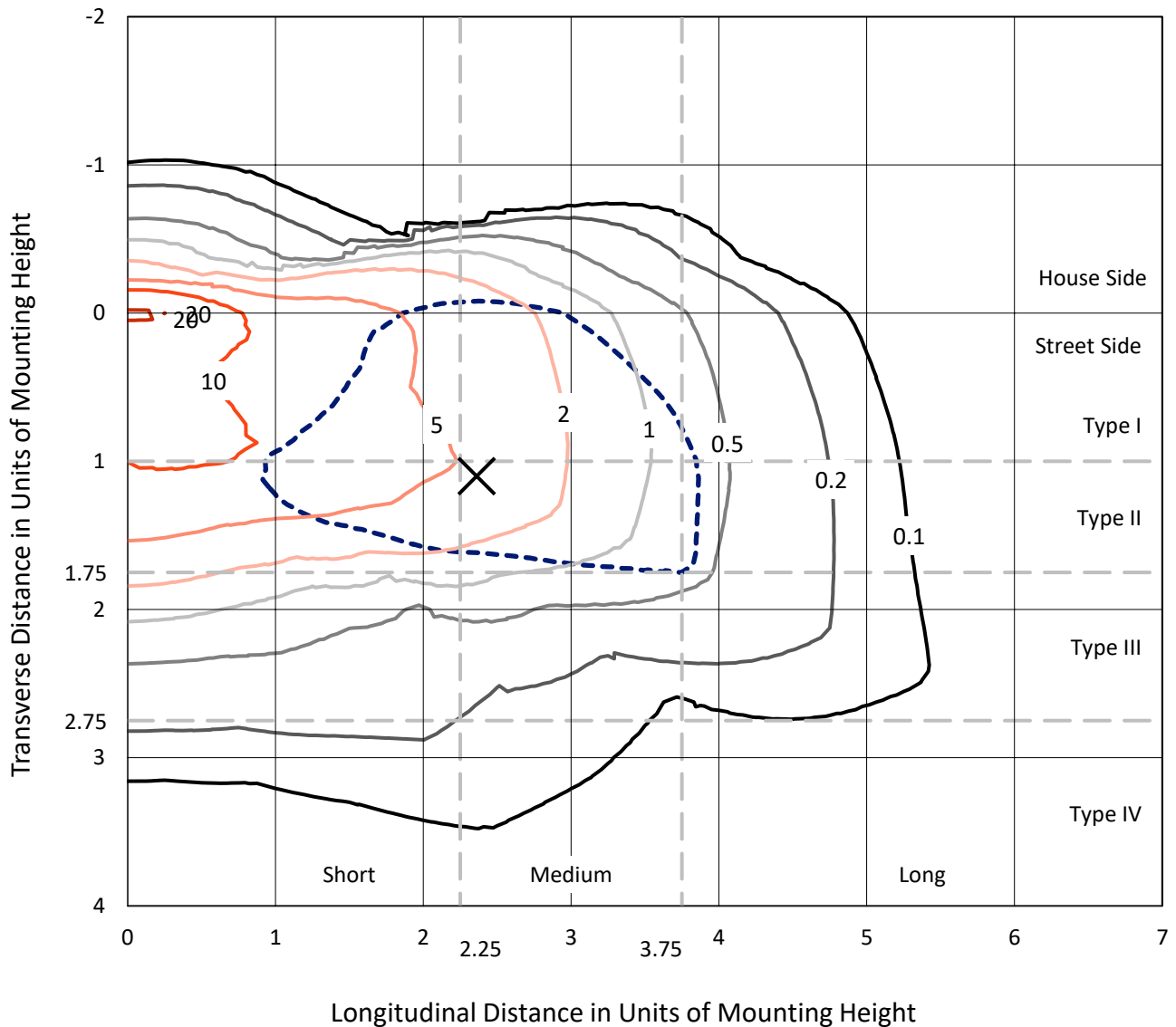
Lumens per Lamp: N/A
Luminaire Lumens: 8557.3 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

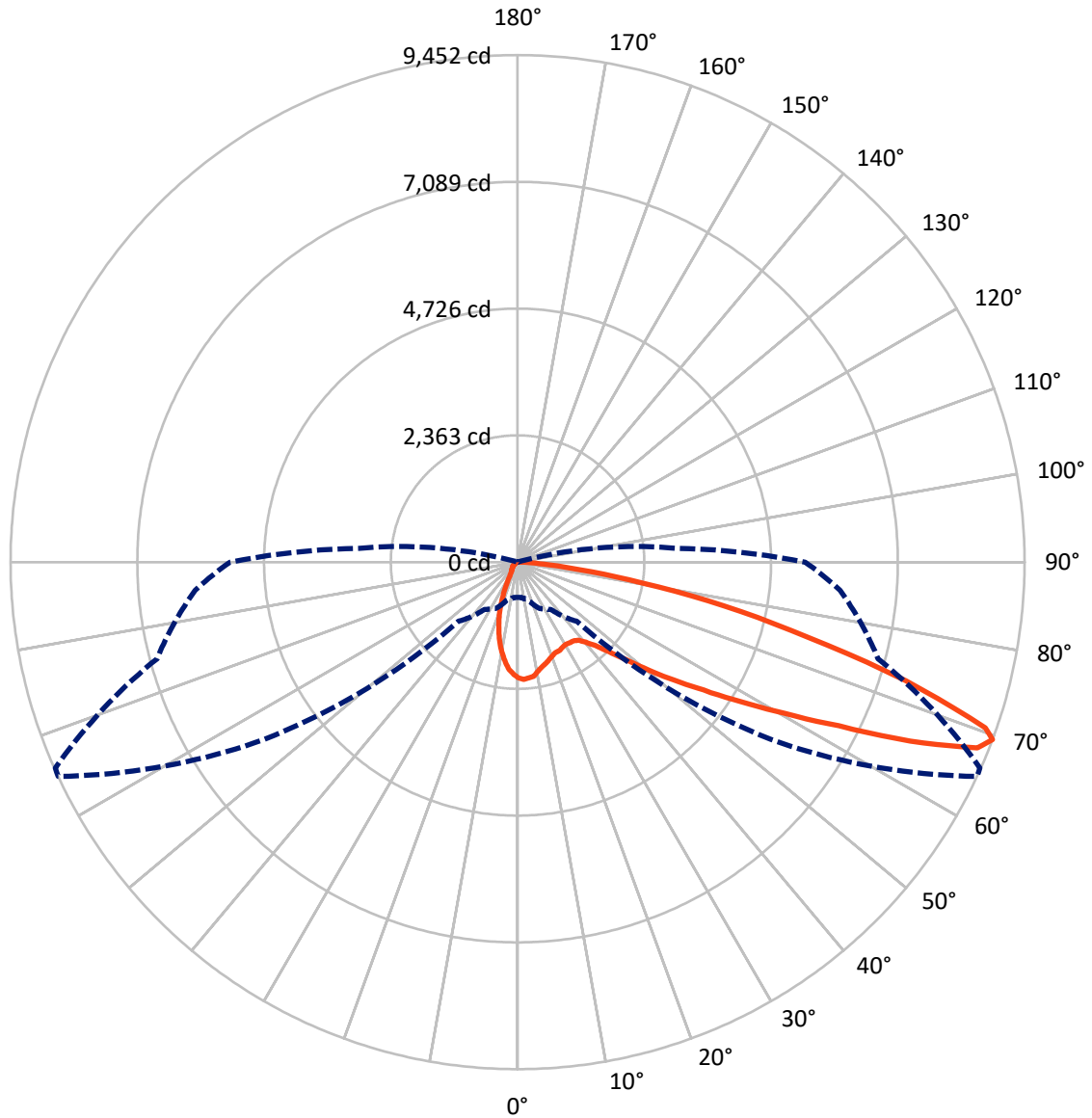
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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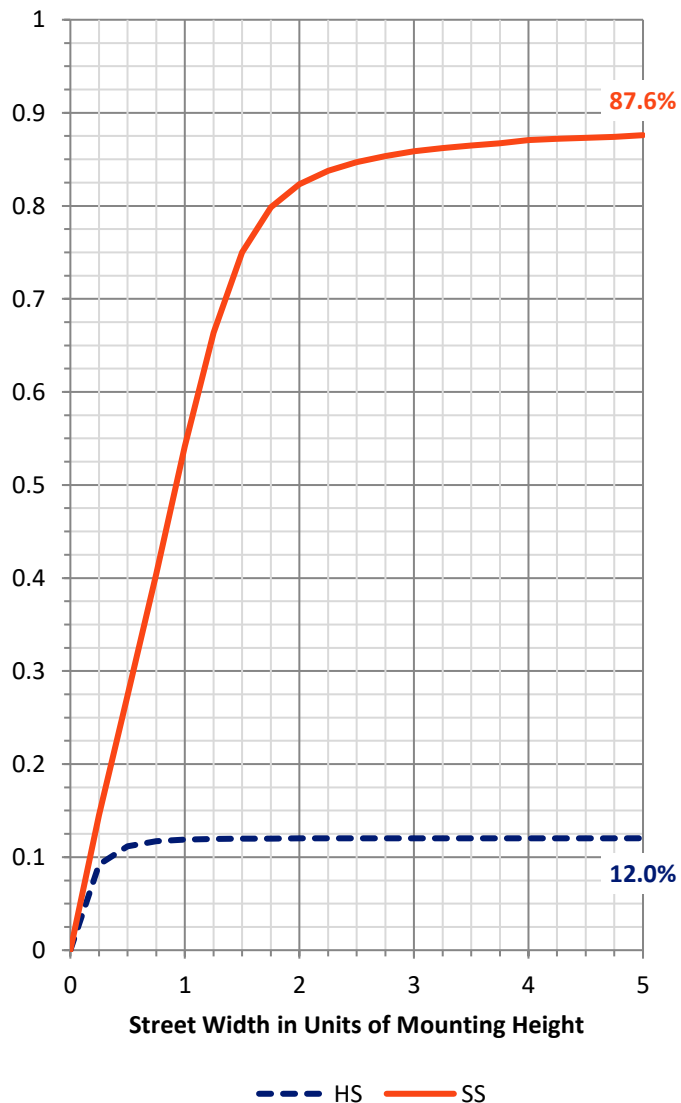
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.1	0.0	1038.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7519.3	0.0	7519.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	8557.3	0.0	8557.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	2.1
10°-20°	386.3	4.5
20°-30°	537.8	6.3
30°-40°	762.1	8.9
40°-50°	1201.1	14.0
50°-60°	1949.0	22.8
60°-70°	2176.6	25.4
70°-80°	1225.7	14.3
80°-90°	142.2	1.7
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°	8557.3	100.0
0°-180°	8557.3	100.0

Coefficient of Utilization



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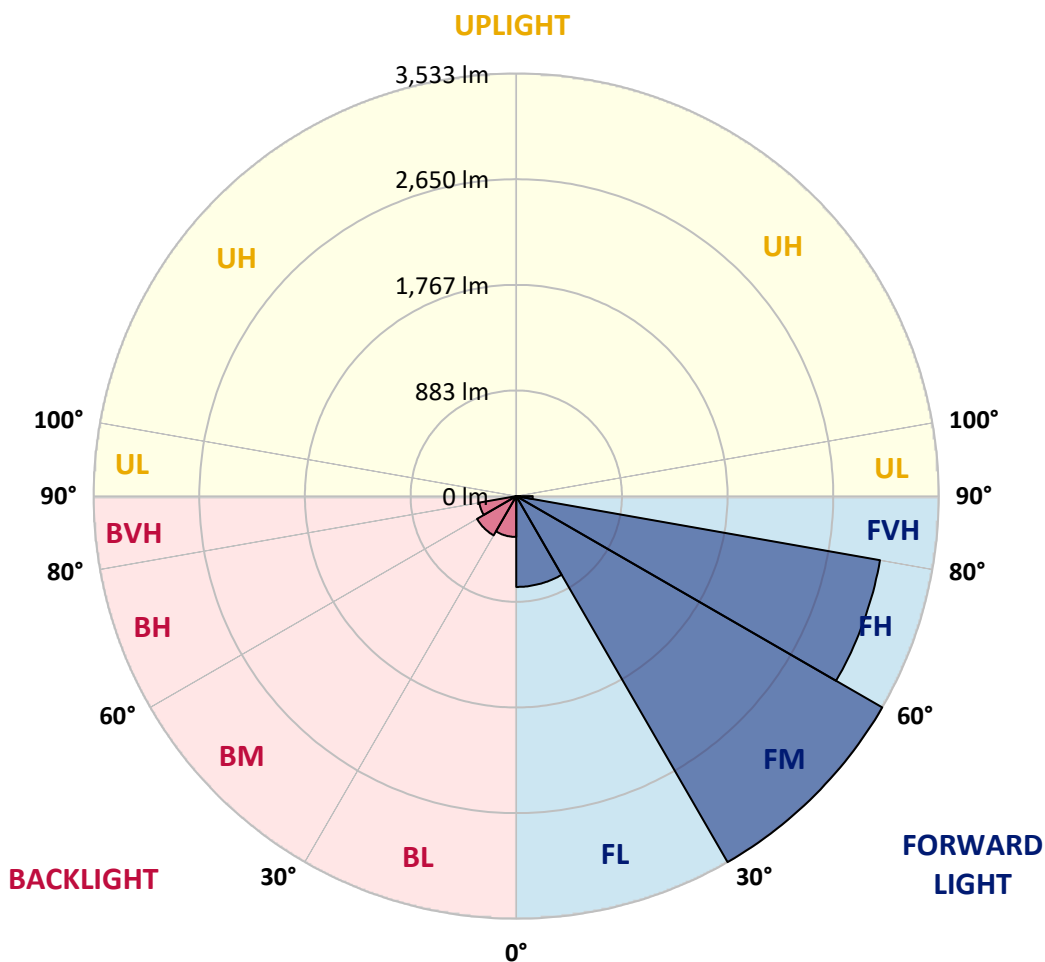
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.4	8.9			
FM (30°-60°)	3533.4	41.3			
FH (60°-80°)	3088.2	36.1			G2/5000
FVH (80°-90°)	138.3	1.6			G2/225
BL (0°-30°)	341.3	4.0	B1/500		
BM (30°-60°)	378.8	4.4	B1/1000		
BH (60°-80°)	314.1	3.7	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5
2.5°	2077.8	2094.0	2098.6	2114.8	2122.9	2157.5	2177.1	2188.7	2182.9	2195.6	2196.7
5°	1930.1	1920.8	1945.1	1962.4	1999.3	2059.4	2120.6	2167.9	2189.8	2210.6	2207.1
7.5°	1771.9	1767.3	1791.6	1830.8	1864.3	1937.0	2035.1	2151.7	2147.1	2197.9	2212.9
10°	1663.4	1668.0	1676.1	1715.4	1765.0	1838.9	1961.3	2069.8	2094.0	2201.4	2231.4
12.5°	1564.2	1572.2	1587.2	1627.6	1685.4	1761.5	1880.4	2007.4	2044.4	2181.7	2241.8
15°	1531.8	1513.4	1543.4	1573.4	1633.4	1701.5	1802.0	1960.1	1976.3	2158.6	2259.1
17.5°	1505.3	1493.7	1507.6	1531.8	1595.3	1650.7	1745.4	1909.3	1939.3	2149.4	2256.8
20°	1513.4	1503.0	1508.7	1527.2	1556.1	1608.0	1695.7	1860.8	1893.1	2106.7	2253.3
22.5°	1536.4	1544.5	1534.1	1538.8	1548.0	1574.5	1669.2	1826.2	1853.9	2098.6	2272.9
25°	1640.3	1626.5	1612.6	1606.9	1552.6	1564.2	1661.1	1823.9	1843.5	2069.8	2256.8
27.5°	1748.9	1737.3	1731.5	1698.1	1624.2	1589.5	1662.3	1791.6	1818.1	2058.2	2237.1
30°	1880.4	1895.5	1872.4	1832.0	1729.2	1643.8	1675.0	1775.4	1812.3	2014.4	2224.4
32.5°	2019.0	2027.1	2038.6	2008.6	1875.8	1725.8	1713.1	1790.4	1792.7	2014.4	2195.6
35°	2176.0	2164.4	2194.4	2196.7	2080.2	1871.2	1785.8	1800.8	1825.0	2005.1	2185.2
37.5°	2311.0	2330.6	2365.3	2420.7	2300.6	2076.7	1898.9	1849.3	1859.7	2047.8	2193.3
40°	2458.8	2478.4	2556.9	2612.3	2544.2	2307.6	2070.9	1962.4	1970.5	2111.3	2234.8
42.5°	2621.5	2659.6	2753.1	2850.1	2831.6	2600.8	2292.6	2128.6	2125.2	2269.5	2320.3
45°	2842.0	2892.8	2994.4	3106.4	3122.5	2936.7	2588.1	2376.8	2388.4	2476.1	2496.9
47.5°	3149.1	3146.8	3246.1	3370.7	3464.2	3285.3	2941.3	2710.4	2709.3	2802.8	2758.9
50°	3445.8	3446.9	3473.5	3617.8	3860.2	3769.0	3378.8	3153.7	3141.0	3187.2	3116.8
52.5°	3583.1	3567.0	3547.3	3721.6	4164.9	4378.5	3932.9	3655.8	3645.5	3617.8	3599.3
55°	3438.8	3444.6	3443.4	3624.7	4325.4	5021.5	4644.0	4208.8	4191.5	4104.9	4130.3
57.5°	2975.9	2957.5	2997.9	3280.7	4141.8	5460.1	5661.0	4906.0	4861.0	4573.6	4515.8
60°	2215.2	2221.0	2254.5	2588.1	3685.9	5552.5	6634.1	5724.5	5530.5	4903.7	4824.1
62.5°	1546.8	1535.3	1548.0	1735.0	2635.4	5183.1	7292.1	6719.5	6532.5	5278.9	5232.7
65°	1107.0	1092.0	1142.8	1257.1	1582.6	3962.9	7385.6	8044.7	7877.3	5878.0	5767.2
67.5°	796.5	794.2	853.1	1060.9	1124.3	2282.2	6693.0	9245.2	9143.7	6589.1	6092.7
69°	659.1	660.3	716.9	950.0	1073.6	1558.4	5759.1	9451.9	9433.4	6956.2	6031.5
70°	574.9	579.5	645.3	884.2	1052.8	1281.3	4964.9	9248.7	9230.2	7027.7	5829.5
72.5°	354.4	357.9	444.4	708.8	1000.8	1045.8	2969.0	7566.8	7630.3	6699.9	5022.6
75°	169.7	170.8	233.2	512.5	965.0	991.6	1590.7	5583.6	5717.5	5409.3	3924.8
77.5°	90.0	90.0	112.0	272.4	781.5	932.7	944.3	3938.7	4049.5	3420.4	2231.4
80°	45.0	46.2	68.1	142.0	484.8	914.3	737.6	2349.1	2409.1	1395.6	694.9
82.5°	17.3	18.5	32.3	85.4	251.6	772.3	647.6	1155.5	1140.5	326.7	169.7
85°	2.3	2.3	11.5	50.8	107.4	340.5	534.5	482.5	466.4	71.6	82.0
87.5°	0.0	0.0	2.3	15.0	32.3	99.3	206.6	132.8	147.8	19.6	40.4
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°	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5	2157.5
2.5°	2191.0	2166.7	2129.8	2094.0	2055.9	2009.7	1958.9	1940.5	1908.2	1905.8	1924.3
5°	2188.7	2149.4	2084.8	2008.6	1900.1	1818.1	1729.2	1664.6	1614.9	1582.6	1590.7
7.5°	2200.2	2152.9	2040.9	1877.0	1737.3	1574.5	1437.2	1342.5	1255.9	1213.2	1208.6
10°	2181.7	2118.2	1954.3	1724.6	1519.1	1291.7	1090.9	963.9	834.6	787.3	789.6
12.5°	2192.1	2103.2	1860.8	1567.6	1284.8	989.3	749.2	576.0	454.8	415.6	411.0
15°	2199.0	2070.9	1770.8	1379.5	1025.1	674.1	434.0	326.7	288.6	281.7	280.5
17.5°	2172.5	2031.7	1643.8	1193.6	759.6	409.8	288.6	266.7	259.7	255.1	252.8
20°	2171.3	2008.6	1534.1	1003.1	506.8	279.4	249.3	241.3	230.9	227.4	227.4
22.5°	2151.7	1960.1	1402.5	794.2	323.2	240.1	223.9	211.2	199.7	195.1	193.9
25°	2145.9	1903.5	1279.0	596.8	245.9	214.7	198.5	180.1	166.2	159.3	155.8
27.5°	2129.8	1855.1	1154.4	420.2	214.7	191.6	170.8	151.2	135.1	124.7	123.5
30°	2072.1	1804.3	1015.8	290.9	195.1	169.7	146.6	123.5	107.4	100.4	98.1
32.5°	2047.8	1756.9	864.6	223.9	177.8	150.1	123.5	102.7	90.0	83.1	82.0
35°	2019.0	1687.7	718.0	195.1	161.6	130.4	103.9	86.6	76.2	70.4	70.4
37.5°	2022.4	1632.3	580.6	176.6	144.3	112.0	88.9	73.9	64.6	58.9	58.9
40°	2012.0	1588.4	451.4	160.5	128.1	95.8	75.0	62.3	54.3	48.5	47.3
42.5°	2059.4	1576.9	340.5	146.6	112.0	82.0	64.6	53.1	45.0	38.1	38.1
45°	2139.0	1595.3	265.5	133.9	95.8	70.4	55.4	43.9	35.8	31.2	30.0
47.5°	2351.4	1668.0	207.8	123.5	82.0	61.2	46.2	35.8	28.9	24.2	23.1
50°	2659.6	1830.8	176.6	108.5	69.3	51.9	38.1	27.7	23.1	18.5	17.3
52.5°	3098.3	2104.4	160.5	95.8	57.7	42.7	30.0	21.9	17.3	13.9	12.7
55°	3576.2	2446.1	145.4	80.8	48.5	34.6	24.2	17.3	12.7	9.2	8.1
57.5°	3949.1	2741.6	132.8	67.0	39.2	27.7	18.5	12.7	9.2	5.8	4.6
60°	4356.5	2949.4	116.6	53.1	32.3	20.8	13.9	9.2	6.9	3.5	3.5
62.5°	4776.7	3193.0	95.8	41.6	25.4	16.2	10.4	6.9	4.6	1.2	1.2
65°	5360.8	3383.4	73.9	32.3	19.6	11.5	8.1	5.8	2.3	0.0	0.0
67.5°	5525.9	3289.9	54.3	25.4	13.9	8.1	5.8	3.5	1.2	0.0	0.0
69°	5360.8	2963.2	47.3	21.9	11.5	6.9	4.6	2.3	1.2	0.0	0.0
70°	5059.5	2709.3	41.6	18.5	10.4	6.9	3.5	2.3	1.2	0.0	0.0
72.5°	4231.9	2077.8	32.3	13.9	8.1	5.8	3.5	2.3	0.0	0.0	0.0
75°	3104.1	1283.6	24.2	10.4	6.9	4.6	3.5	2.3	0.0	0.0	0.0
77.5°	1663.4	468.7	17.3	6.9	4.6	3.5	3.5	2.3	0.0	0.0	0.0
80°	456.0	138.5	12.7	4.6	3.5	2.3	2.3	1.2	0.0	0.0	0.0
82.5°	124.7	35.8	8.1	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0
85°	67.0	13.9	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	34.6	4.6	3.5	2.3	2.3	1.2	0.0	0.0	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)