

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: P480179

Luminaire Tested: **IFLD-S-SA2A-760-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480179
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-760-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

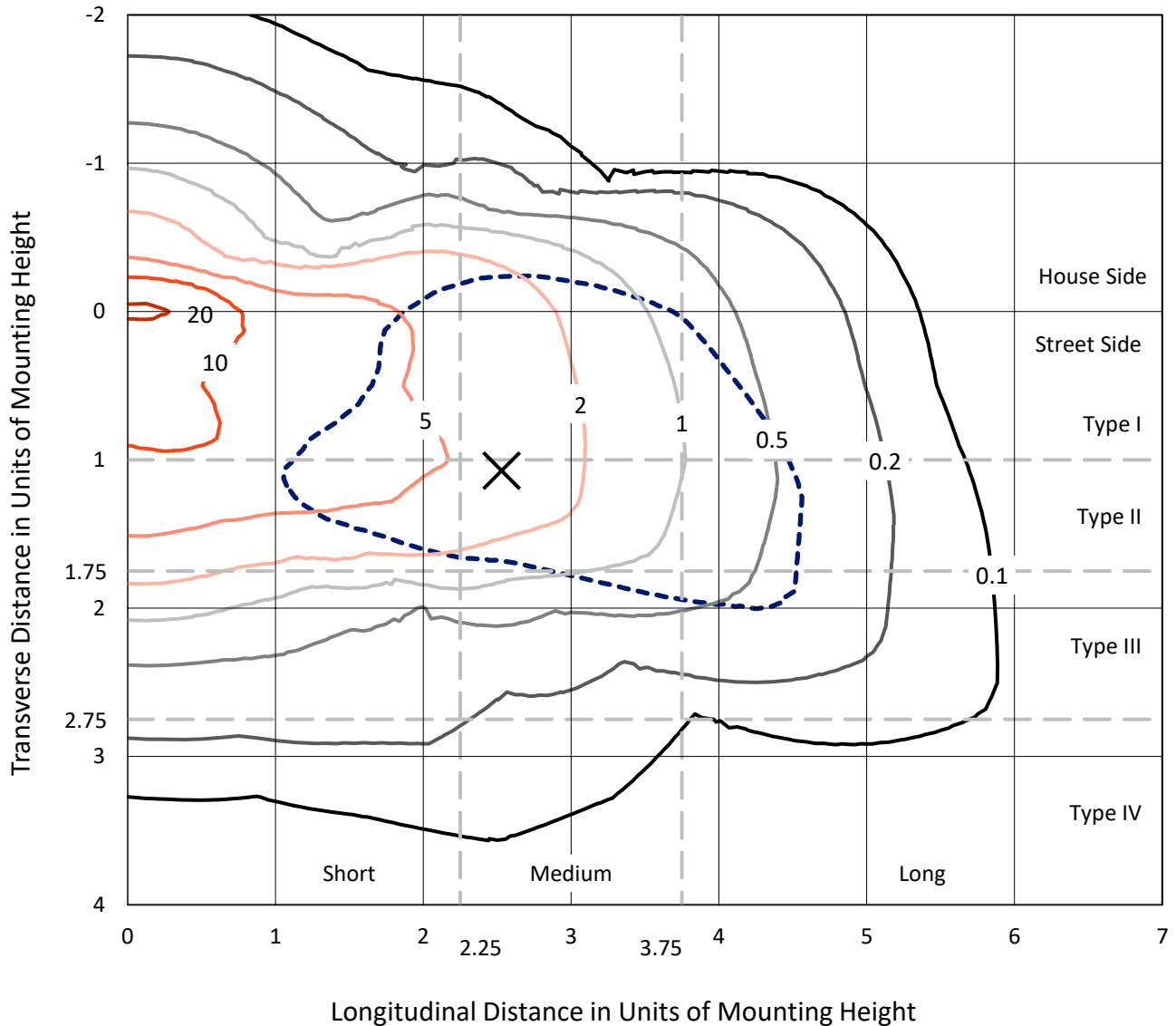
Lumens per Lamp: N/A
Luminaire Lumens: 9415.8 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 63.8
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

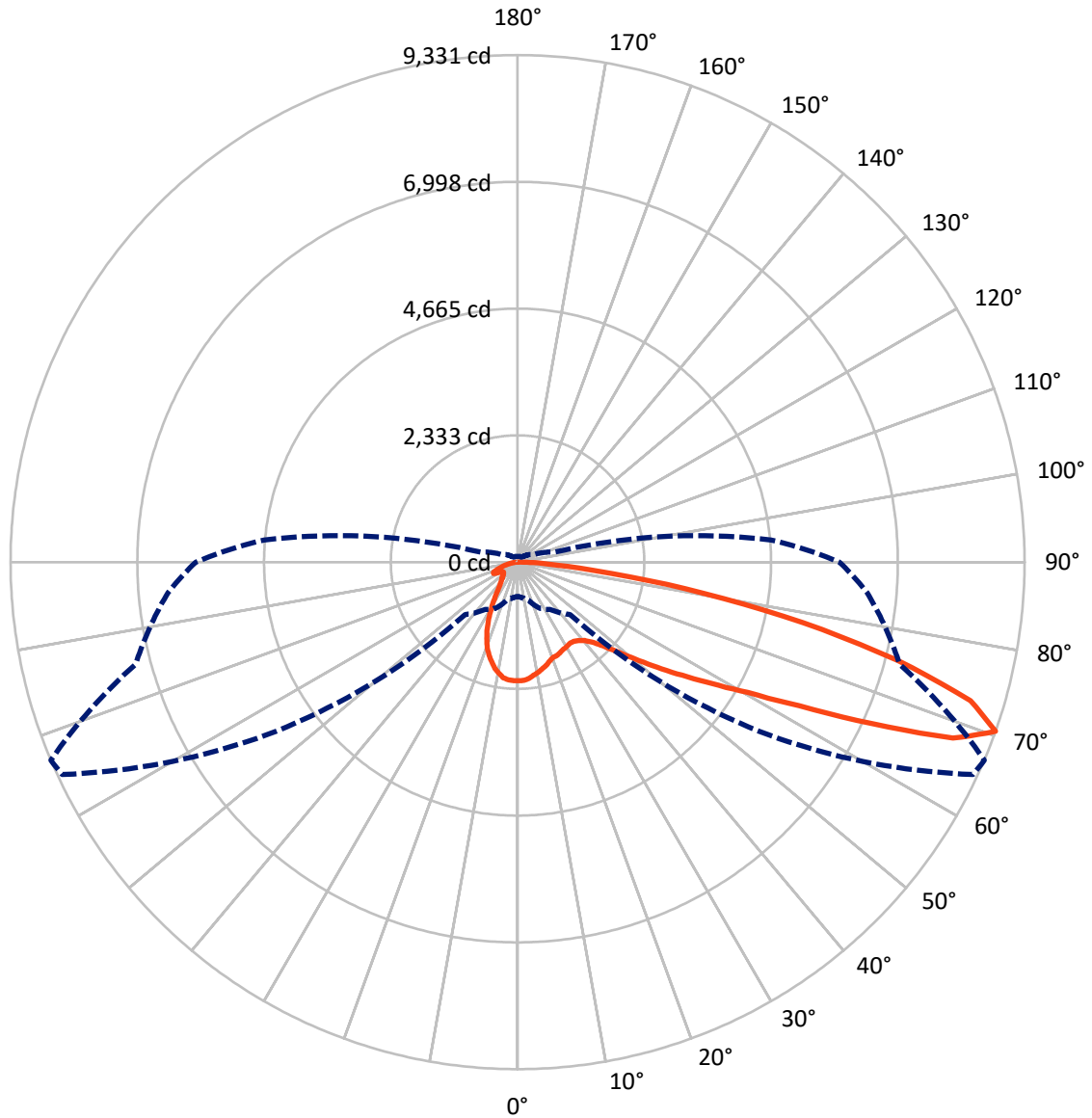
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22 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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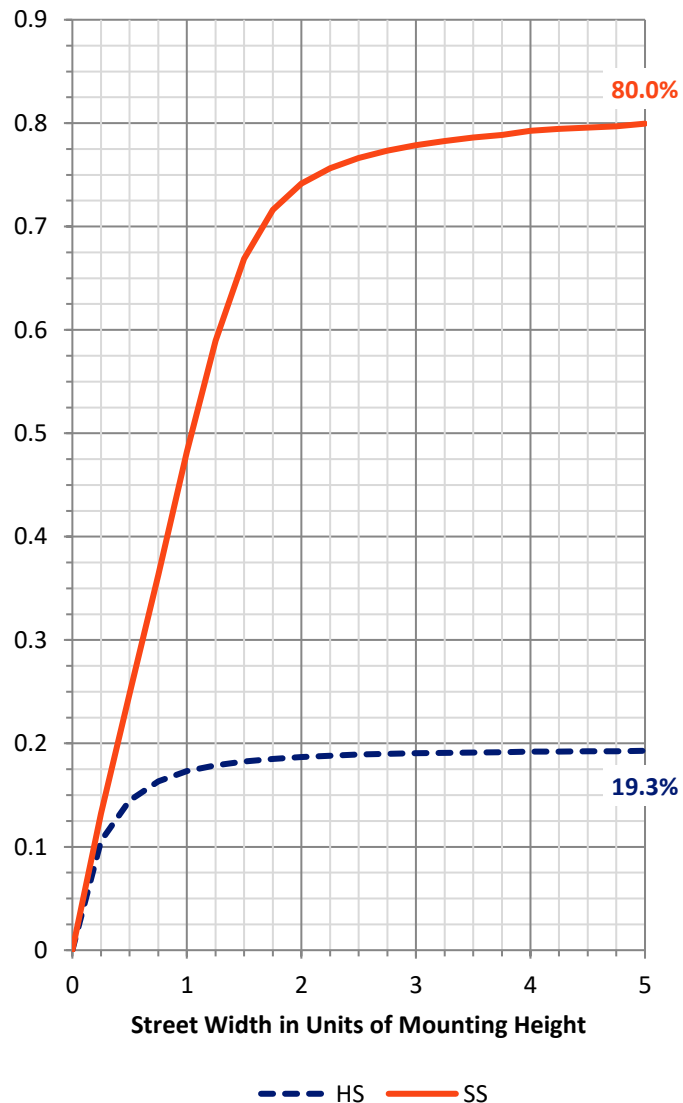
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1833.8	0.0	1833.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7582.0	0.0	7582.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	9415.8	0.0	9415.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	2.0
10°-20°	455.5	4.8
20°-30°	615.1	6.5
30°-40°	823.1	8.7
40°-50°	1210.3	12.9
50°-60°	1886.6	20.0
60°-70°	2323.9	24.7
70°-80°	1642.1	17.4
80°-90°	269.1	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°	9415.8	100.0
0°-180°	9415.8	100.0

Coefficient of Utilization



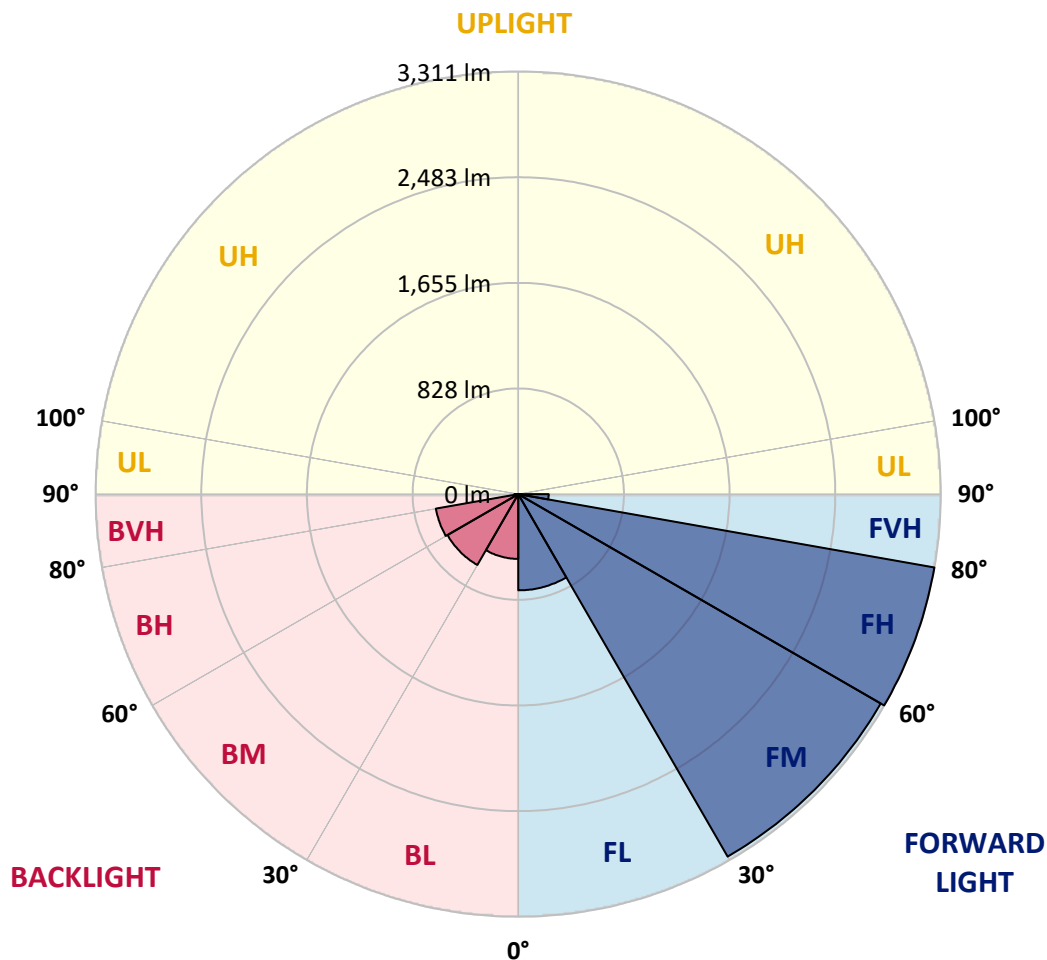
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.7	8.0			
FM (30°-60°)	3279.3	34.8			
FH (60°-80°)	3310.9	35.2			G2/5000
FVH (80°-90°)	238.1	2.5			G3/500
BL (0°-30°)	507.1	5.4	B2/1000		
BM (30°-60°)	640.6	6.8	B1/1000		
BH (60°-80°)	655.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	31.0	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°	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7
2.5°	2029.6	2052.6	2060.9	2073.4	2105.7	2129.7	2144.3	2161.0	2180.8	2197.5	2207.9
5°	1887.9	1900.4	1920.2	1933.7	1974.4	2039.0	2082.8	2153.7	2151.6	2177.7	2217.3
7.5°	1750.3	1762.8	1772.1	1799.2	1857.6	1916.0	1996.3	2110.9	2102.6	2163.1	2224.6
10°	1664.8	1655.4	1658.5	1704.4	1750.3	1815.9	1917.0	2033.8	2064.0	2157.8	2245.4
12.5°	1584.5	1574.1	1599.1	1628.3	1684.6	1744.0	1864.9	1970.2	2016.1	2139.1	2254.8
15°	1534.5	1527.2	1558.4	1571.0	1637.7	1708.6	1794.0	1922.3	1972.3	2116.2	2240.2
17.5°	1506.3	1512.6	1524.0	1551.1	1593.9	1654.4	1748.2	1889.9	1911.8	2088.0	2237.1
20°	1511.5	1518.8	1519.9	1531.3	1560.5	1607.4	1703.3	1855.5	1870.1	2082.8	2245.4
22.5°	1553.2	1542.8	1547.0	1539.7	1548.0	1584.5	1668.9	1809.7	1866.0	2039.0	2227.7
25°	1615.8	1601.2	1599.1	1574.1	1558.4	1568.9	1662.7	1798.2	1834.7	2025.5	2226.6
27.5°	1726.3	1704.4	1704.4	1666.9	1603.3	1586.6	1645.0	1779.4	1811.8	2012.9	2202.7
30°	1832.6	1832.6	1833.7	1780.5	1709.6	1627.2	1652.3	1772.1	1793.0	1975.4	2170.4
32.5°	1961.9	1958.7	1953.5	1927.5	1818.0	1695.0	1687.7	1762.8	1773.2	1962.9	2161.0
35°	2088.0	2079.7	2120.3	2097.4	1985.8	1827.4	1724.2	1766.9	1789.9	1944.1	2131.8
37.5°	2182.9	2188.1	2272.5	2287.1	2191.2	1977.5	1827.4	1808.6	1830.5	1971.3	2131.8
40°	2305.9	2326.7	2405.9	2454.9	2396.6	2175.6	1991.1	1878.5	1894.1	2031.7	2177.7
42.5°	2467.5	2485.2	2586.3	2649.9	2633.2	2427.8	2152.6	2024.4	2011.9	2132.8	2246.5
45°	2681.2	2684.3	2786.4	2874.0	2908.4	2691.6	2409.1	2208.9	2198.5	2306.9	2372.6
47.5°	2935.5	2932.4	2996.0	3089.8	3182.6	3006.4	2704.1	2489.3	2451.8	2556.1	2582.1
50°	3181.5	3168.0	3182.6	3302.4	3480.7	3400.4	3062.7	2832.3	2794.8	2852.1	2896.9
52.5°	3317.0	3333.7	3294.1	3452.6	3797.6	3866.4	3538.0	3242.0	3209.7	3237.8	3316.0
55°	3222.2	3256.6	3230.5	3380.6	3936.2	4434.5	4153.1	3716.3	3674.6	3664.2	3792.4
57.5°	2818.8	2881.3	2886.5	3124.2	3888.3	4874.4	5018.3	4276.1	4213.5	4107.2	4239.6
60°	2164.1	2226.6	2274.6	2556.1	3477.6	5137.1	6021.1	5072.5	4866.1	4590.9	4670.1
62.5°	1516.7	1559.5	1607.4	1780.5	2681.2	4982.9	6888.4	6194.2	5813.7	5100.7	5199.7
65°	1105.0	1138.3	1187.3	1289.5	1647.1	4122.8	7290.8	7526.4	7165.7	5749.1	5736.5
67.5°	831.9	852.7	917.3	1081.0	1141.5	2546.7	6873.8	8933.7	8641.8	6469.4	6168.1
70°	629.6	647.4	707.8	931.9	1066.4	1365.6	5422.8	9247.5	9330.9	7277.3	6457.9
72.5°	433.7	453.5	521.2	776.6	1015.3	1083.1	3403.6	8401.0	8716.9	7609.8	6147.3
75°	265.8	279.4	319.0	589.0	1008.0	1059.1	1873.3	6884.3	7218.9	7031.3	5377.9
77.5°	187.6	186.6	193.9	345.0	873.6	1065.4	1155.0	5044.4	5369.6	5182.0	3649.6
80°	136.6	137.6	144.9	206.4	593.1	1083.1	910.0	3378.5	3475.5	2702.0	1439.6
82.5°	82.4	86.5	104.2	139.7	356.5	977.8	841.2	1877.4	1756.5	867.3	396.1
85°	43.8	43.8	61.5	88.6	189.7	729.7	810.0	893.4	748.5	268.9	147.0
87.5°	10.4	10.4	17.7	35.4	76.1	349.2	552.5	355.5	284.6	90.7	60.5
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°	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7	2179.7
2.5°	2203.7	2191.2	2206.8	2175.6	2150.6	2151.6	2113.0	2110.9	2105.7	2078.6	2088.0
5°	2228.7	2218.3	2200.6	2166.2	2110.9	2055.7	2022.3	1979.6	1961.9	1952.5	1956.7
7.5°	2252.7	2233.9	2182.9	2134.9	2049.4	1945.2	1884.7	1827.4	1754.4	1746.1	1731.5
10°	2259.0	2219.4	2153.7	2051.5	1937.9	1822.2	1684.6	1578.3	1522.0	1478.2	1461.5
12.5°	2249.6	2232.9	2106.8	1975.4	1803.4	1622.0	1461.5	1311.4	1207.1	1152.9	1138.3
15°	2248.5	2219.4	2054.6	1859.7	1639.8	1403.1	1174.8	994.5	885.0	840.2	840.2
17.5°	2249.6	2179.7	1993.1	1743.0	1446.9	1126.9	875.6	727.6	667.2	660.9	666.1
20°	2228.7	2150.6	1928.5	1605.4	1205.1	846.5	635.9	575.4	575.4	583.8	586.9
22.5°	2210.0	2106.8	1826.4	1435.4	959.0	613.0	517.0	499.3	519.1	533.7	540.0
25°	2183.9	2070.3	1722.1	1259.3	729.7	494.1	449.3	453.5	472.2	498.3	496.2
27.5°	2146.4	2006.7	1598.1	1054.9	543.1	426.4	414.9	417.0	436.8	448.2	446.2
30°	2103.6	1942.1	1483.4	851.7	430.5	390.9	389.9	395.1	398.2	404.5	403.4
32.5°	2049.4	1856.6	1361.4	661.9	387.8	371.1	366.9	363.8	366.9	365.9	362.8
35°	2010.9	1810.7	1237.4	504.5	363.8	353.4	350.3	345.0	340.9	334.6	333.6
37.5°	2000.4	1764.8	1107.1	411.8	345.0	339.8	329.4	320.0	314.8	311.7	309.6
40°	1994.2	1734.6	979.9	361.7	329.4	324.2	311.7	299.2	294.0	290.8	291.9
42.5°	2016.1	1717.9	850.6	336.7	315.9	306.5	292.9	278.3	277.3	275.2	278.3
45°	2093.2	1738.8	730.7	319.0	302.3	286.7	268.9	261.7	260.6	258.5	260.6
47.5°	2268.3	1790.9	628.6	307.5	287.7	274.2	255.4	245.0	243.9	242.9	242.9
50°	2510.2	1951.4	543.1	294.0	278.3	259.6	241.8	230.4	228.3	224.1	224.1
52.5°	2889.6	2221.4	492.0	286.7	261.7	246.0	227.3	214.7	209.5	205.4	205.4
55°	3317.0	2556.1	482.6	274.2	243.9	229.3	212.7	200.1	194.9	189.7	187.6
57.5°	3803.9	2999.1	549.4	265.8	231.4	212.7	193.9	182.4	178.3	173.0	171.0
60°	4257.3	3441.1	756.8	253.3	220.0	197.0	178.3	166.8	161.6	156.4	156.4
62.5°	4781.7	3988.4	1108.1	253.3	209.5	180.3	161.6	153.2	150.1	144.9	143.9
65°	5401.9	4554.4	1364.6	268.9	206.4	165.7	145.9	137.6	134.5	131.3	130.3
67.5°	5874.1	4879.7	1173.8	310.6	220.0	153.2	130.3	125.1	123.0	119.9	117.8
70°	5924.2	4681.6	707.8	335.7	233.5	140.7	116.8	111.5	111.5	108.4	106.3
72.5°	5474.9	4154.1	476.4	299.2	211.6	126.1	103.2	99.0	96.9	94.9	93.8
75°	4581.5	3523.4	376.3	238.7	162.6	104.2	89.6	85.5	82.4	81.3	79.2
77.5°	3077.3	2290.2	278.3	186.6	119.9	84.4	75.1	70.9	67.8	66.7	63.6
80°	1182.1	872.5	179.3	135.5	84.4	66.7	59.4	55.2	53.2	50.0	48.0
82.5°	348.2	282.5	100.1	83.4	54.2	45.9	42.7	39.6	36.5	33.4	32.3
85°	143.9	129.3	61.5	43.8	33.4	27.1	25.0	21.9	18.8	16.7	14.6
87.5°	66.7	55.2	28.1	16.7	11.5	6.3	3.1	1.0	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)