

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: P484548

Luminaire Tested: **IFLD-S-SA2B-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484548  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

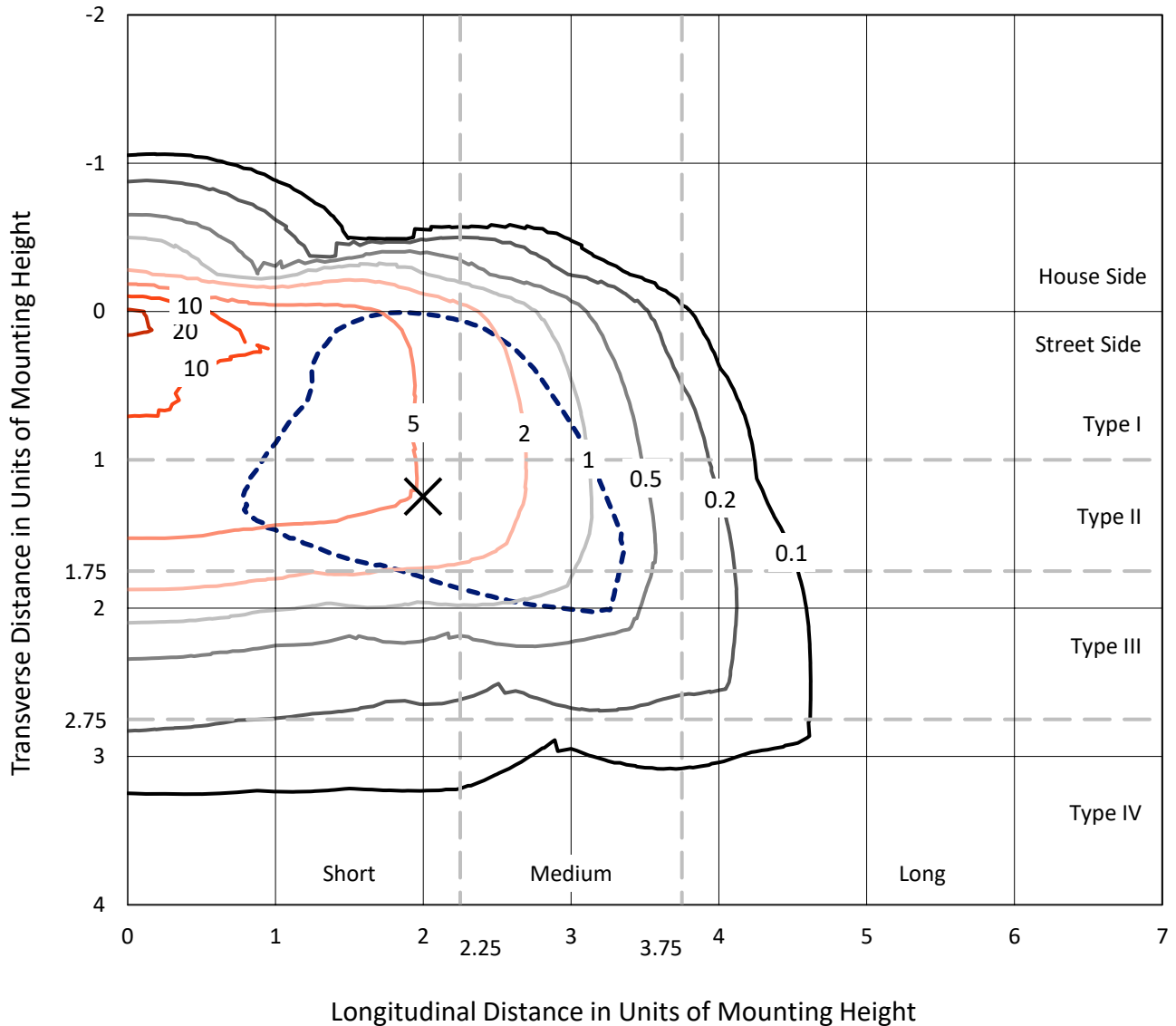
Lumens per Lamp: N/A  
Luminaire Lumens: 7587.3 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

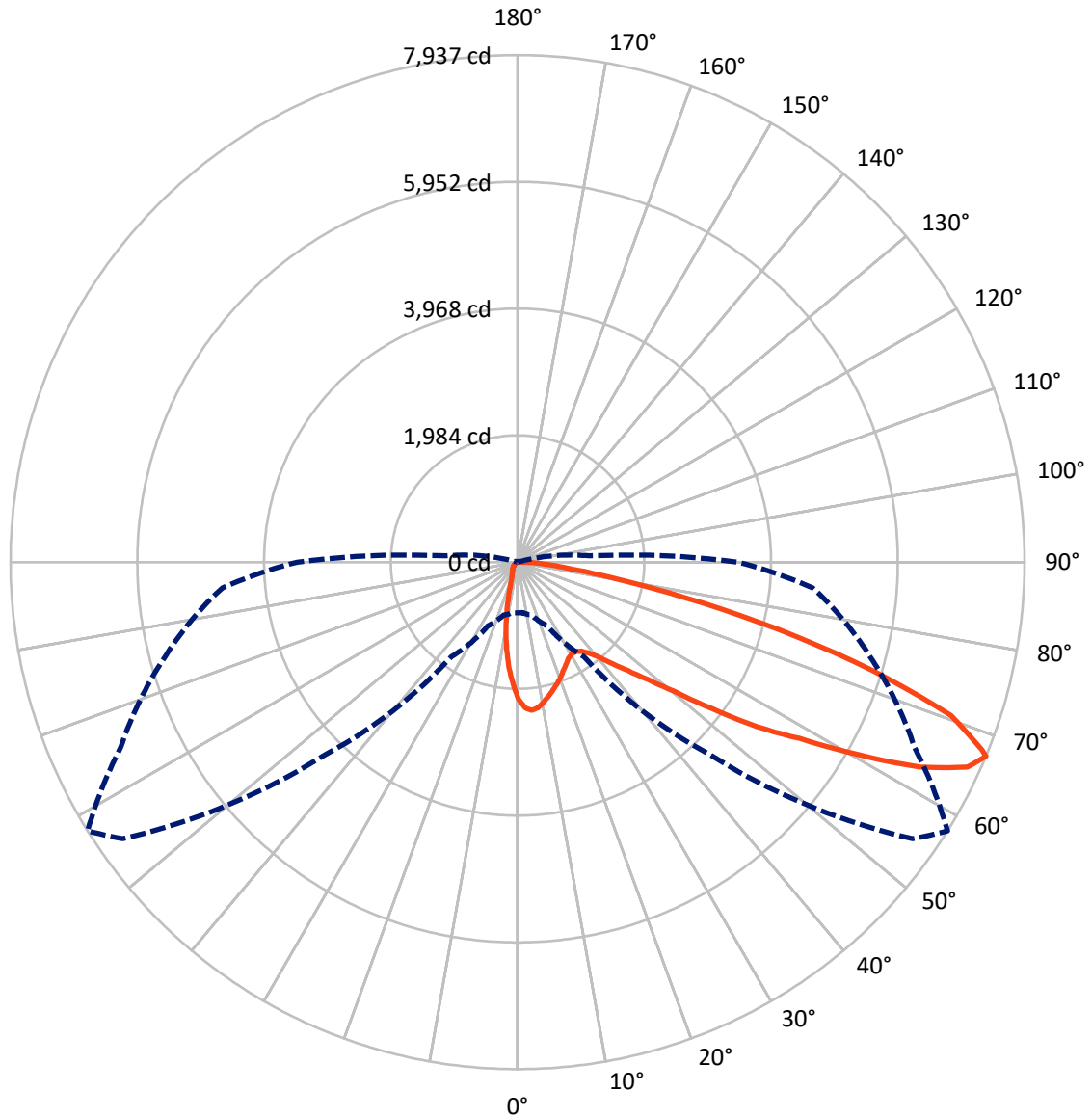
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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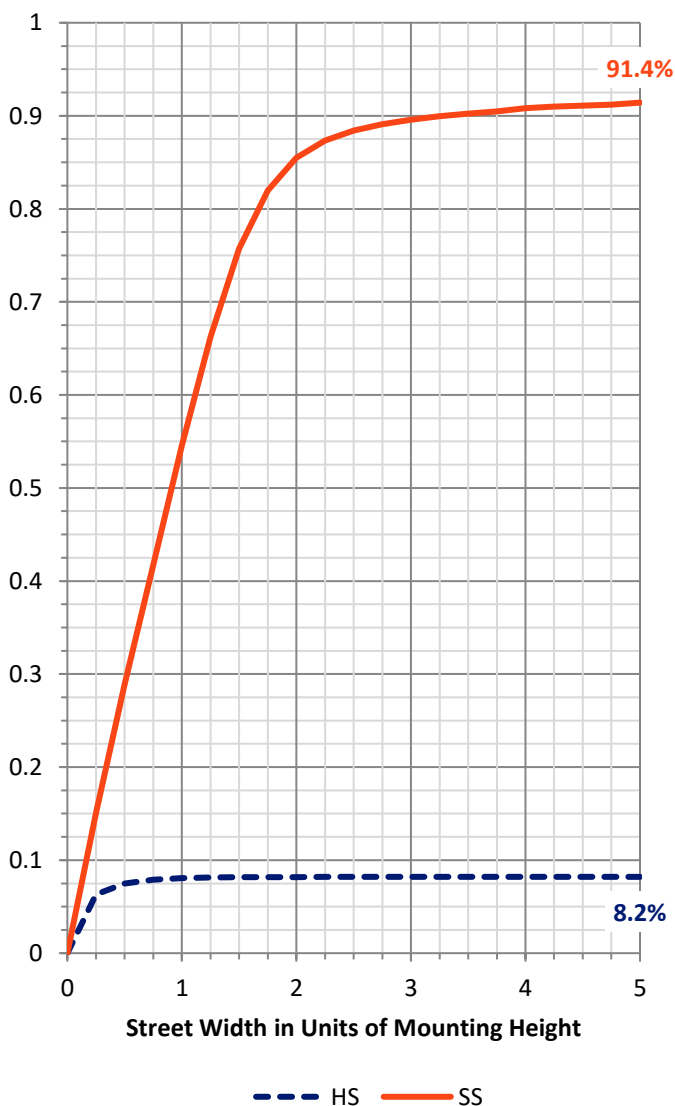
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	627.1	0.0	627.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	6960.2	0.0	6960.2
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	7587.3	0.0	7587.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.6	2.2
10°-20°	353.8	4.7
20°-30°	469.4	6.2
30°-40°	650.4	8.6
40°-50°	1061.3	14.0
50°-60°	1865.4	24.6
60°-70°	2066.1	27.2
70°-80°	856.2	11.3
80°-90°	94.2	1.2
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°	7587.3	100.0
0°-180°	7587.3	100.0

**Coefficient of Utilization**



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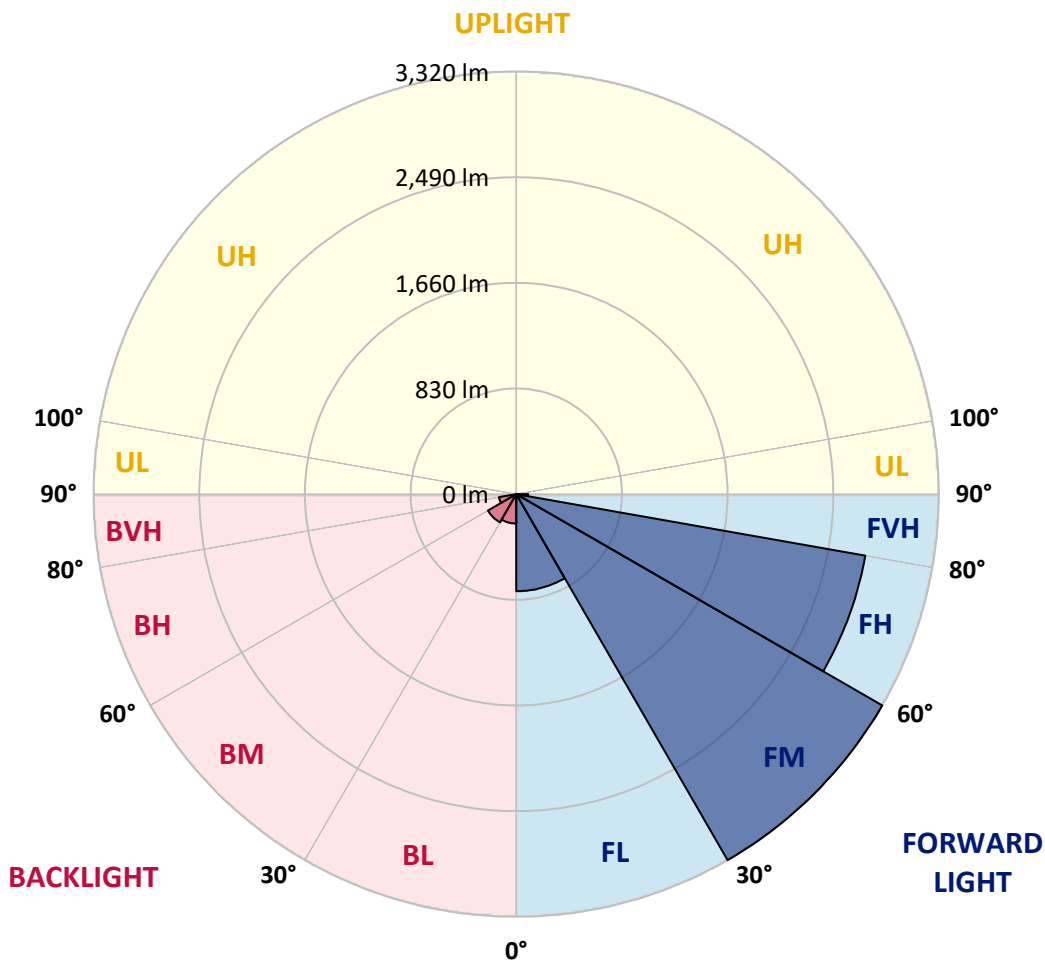
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.7	10.1			
FM (30°-60°)	3320.4	43.8			
FH (60°-80°)	2784.4	36.7			G2/5000
FVH (80°-90°)	92.7	1.2			G1/100
BL (0°-30°)	231.0	3.0	B1/500		
BM (30°-60°)	256.7	3.4	B1/1000		
BH (60°-80°)	137.9	1.8	B1/500		G1/500
BVH (80°-90°)	1.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6
2.5°	2339.0	2347.0	2354.1	2341.0	2352.1	2335.9	2294.6	2285.6	2278.5	2217.1	2181.8
5°	2338.0	2328.9	2335.9	2342.0	2326.9	2339.0	2328.9	2329.9	2302.7	2247.3	2148.6
7.5°	2181.8	2177.8	2181.8	2211.0	2244.3	2270.5	2285.6	2300.7	2282.6	2200.0	2104.3
10°	1971.3	1991.4	2002.5	2054.9	2106.3	2154.6	2202.0	2230.2	2225.1	2191.9	2055.9
12.5°	1824.2	1818.2	1858.5	1892.7	1944.1	2041.8	2124.4	2150.6	2180.8	2134.5	1992.5
15°	1688.2	1672.1	1696.3	1755.7	1843.4	1920.9	2036.8	2076.1	2114.3	2126.4	1958.2
17.5°	1558.3	1566.4	1591.5	1644.9	1727.5	1836.3	1945.1	2001.5	2093.2	2077.1	1906.8
20°	1495.9	1513.0	1522.0	1549.2	1606.7	1715.4	1877.6	1923.0	2020.7	2076.1	1856.5
22.5°	1498.9	1498.9	1477.7	1493.8	1546.2	1630.8	1786.0	1836.3	1991.4	2023.7	1811.1
25°	1531.1	1511.0	1512.0	1492.8	1515.0	1561.3	1703.4	1764.8	1932.0	2028.7	1787.0
27.5°	1555.3	1551.3	1545.2	1540.2	1512.0	1519.0	1649.0	1699.3	1908.8	2022.7	1749.7
30°	1642.9	1624.8	1618.7	1607.7	1570.4	1536.1	1605.6	1669.1	1890.7	2036.8	1728.5
32.5°	1716.5	1719.5	1724.5	1692.3	1660.0	1575.4	1617.7	1668.1	1877.6	2069.0	1749.7
35°	1809.1	1822.2	1824.2	1814.2	1779.9	1696.3	1668.1	1711.4	1899.8	2126.4	1751.7
37.5°	1950.1	1936.0	1974.3	1978.4	1954.2	1843.4	1785.0	1802.1	1965.3	2218.1	1828.3
40°	2041.8	2058.9	2130.5	2174.8	2133.5	2032.7	1954.2	1951.2	2059.9	2362.1	1923.0
42.5°	2143.6	2181.8	2260.4	2356.1	2351.1	2257.4	2177.8	2164.7	2228.2	2570.7	2073.0
45°	2282.6	2316.8	2426.6	2570.7	2649.2	2569.6	2449.8	2423.6	2432.7	2854.7	2328.9
47.5°	2513.2	2504.2	2662.3	2804.3	2933.3	2871.8	2820.5	2743.9	2736.9	3189.1	2682.5
50°	2774.1	2772.1	2913.1	3074.3	3223.4	3343.3	3257.6	3174.0	3176.0	3643.4	3098.5
52.5°	3021.9	3061.2	3213.3	3373.5	3629.3	3758.3	3840.9	3807.6	3647.5	4049.4	3543.7
55°	3152.9	3187.1	3338.2	3614.2	4018.2	4349.6	4573.2	4545.0	4235.7	4506.7	3982.9
57.5°	3029.0	3052.1	3256.6	3618.3	4290.1	5029.5	5244.0	5208.8	4844.1	4856.2	4513.7
60°	2510.2	2546.5	2850.7	3274.8	4184.4	5553.3	6167.8	6114.4	5398.2	5298.4	4855.2
62.5°	1738.6	1762.8	2012.6	2540.4	3682.7	5735.6	7040.1	7069.3	5982.4	5642.9	4957.0
65°	1126.2	1124.2	1267.2	1624.8	2609.9	5183.6	7555.8	7737.1	6546.5	5695.3	4925.7
67°	795.8	792.8	860.2	1102.0	1807.1	4271.0	7546.8	7936.6	6852.7	5710.4	4636.6
67.5°	734.3	731.3	795.8	1013.4	1630.8	3971.8	7433.9	7833.8	6960.5	5689.3	4509.7
70°	570.1	562.1	586.3	698.1	949.9	2568.6	6362.2	7196.2	6736.9	5161.4	3601.1
72.5°	412.0	421.1	459.3	573.2	745.4	1382.0	4849.2	5819.2	5626.8	3890.2	2288.6
75°	287.1	295.1	356.6	467.4	684.0	838.1	3278.8	4220.6	3919.4	2147.6	975.1
77.5°	150.1	160.2	227.7	373.7	621.5	648.7	1959.2	2676.4	2077.1	764.5	269.0
80°	69.5	74.5	113.8	264.9	519.8	570.1	1142.3	1488.8	831.0	171.2	92.7
82.5°	30.2	33.2	52.4	152.1	368.7	498.6	707.1	780.7	301.2	55.4	57.4
85°	6.0	7.1	20.1	80.6	178.3	302.2	496.6	463.4	151.1	27.2	45.3
87.5°	0.0	0.0	5.0	23.2	48.4	89.7	210.5	210.5	46.3	14.1	17.1
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°	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6	2149.6
2.5°	2150.6	2114.3	2034.8	1961.2	1908.8	1849.4	1770.8	1735.6	1722.5	1704.4	1677.2
5°	2094.2	2049.9	1913.9	1776.9	1626.8	1513.0	1392.1	1321.6	1268.2	1235.0	1223.9
7.5°	2014.6	1924.0	1740.6	1521.0	1326.6	1157.4	974.1	850.2	770.6	738.4	708.1
10°	1951.2	1833.3	1554.3	1281.3	1022.4	774.6	568.1	459.3	376.7	345.5	341.5
12.5°	1868.6	1727.5	1380.0	1036.5	711.2	461.3	314.3	273.0	249.8	245.8	242.8
15°	1800.1	1631.8	1214.8	802.8	460.3	288.1	244.8	234.7	228.7	226.6	227.7
17.5°	1753.7	1529.1	1045.6	584.2	303.2	235.7	225.6	219.6	216.6	215.6	212.5
20°	1662.1	1442.5	878.4	409.0	236.7	217.6	209.5	204.5	201.5	200.5	199.4
22.5°	1609.7	1332.7	711.2	285.1	210.5	197.4	191.4	187.4	182.3	179.3	178.3
25°	1557.3	1252.1	562.1	221.6	191.4	182.3	173.3	168.2	160.2	156.1	155.1
27.5°	1495.9	1172.5	433.1	192.4	172.2	163.2	154.1	146.1	136.0	132.0	129.9
30°	1460.6	1094.9	326.4	172.2	158.1	146.1	135.0	124.9	113.8	106.8	104.8
32.5°	1442.5	1024.4	244.8	157.1	143.0	129.9	115.8	103.8	93.7	87.6	86.6
35°	1420.3	955.9	192.4	143.0	128.9	114.8	100.7	88.6	78.6	73.5	71.5
37.5°	1443.5	915.6	160.2	132.0	117.9	101.7	86.6	74.5	66.5	61.4	60.4
40°	1506.9	882.4	139.0	121.9	106.8	89.7	75.5	63.5	56.4	52.4	50.4
42.5°	1604.6	882.4	125.9	111.8	96.7	78.6	64.5	55.4	48.4	44.3	43.3
45°	1781.9	909.6	114.8	101.7	84.6	67.5	55.4	46.3	39.3	35.3	34.2
47.5°	2030.7	972.1	105.8	92.7	75.5	59.4	48.4	39.3	32.2	28.2	27.2
50°	2365.2	1114.1	96.7	81.6	67.5	51.4	40.3	31.2	25.2	21.2	20.1
52.5°	2782.2	1315.5	87.6	75.5	57.4	43.3	32.2	25.2	19.1	16.1	15.1
55°	3223.4	1562.3	76.6	67.5	49.4	36.3	26.2	19.1	14.1	12.1	11.1
57.5°	3667.6	1752.7	67.5	58.4	40.3	29.2	21.2	15.1	10.1	8.1	7.1
60°	3903.3	1770.8	58.4	48.4	32.2	23.2	16.1	11.1	7.1	5.0	4.0
62.5°	3939.6	1609.7	50.4	39.3	26.2	18.1	11.1	8.1	4.0	2.0	2.0
65°	3753.2	1341.7	43.3	31.2	20.1	13.1	8.1	5.0	2.0	1.0	0.0
67°	3451.0	1124.2	37.3	26.2	16.1	10.1	6.0	3.0	1.0	0.0	0.0
67.5°	3334.2	1063.7	35.3	24.2	15.1	9.1	5.0	3.0	1.0	0.0	0.0
70°	2587.8	759.5	26.2	17.1	11.1	7.1	4.0	2.0	0.0	0.0	0.0
72.5°	1585.5	444.2	20.1	12.1	8.1	5.0	3.0	1.0	0.0	0.0	0.0
75°	664.8	153.1	17.1	9.1	6.0	3.0	2.0	1.0	0.0	0.0	0.0
77.5°	173.3	57.4	12.1	6.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
80°	70.5	26.2	8.1	4.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
82.5°	46.3	12.1	5.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	35.3	7.1	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	4.0	3.0	2.0	2.0	0.0	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)