

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: P484782

Luminaire Tested: **IFLD-S-SA2B-740-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484782  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-740-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

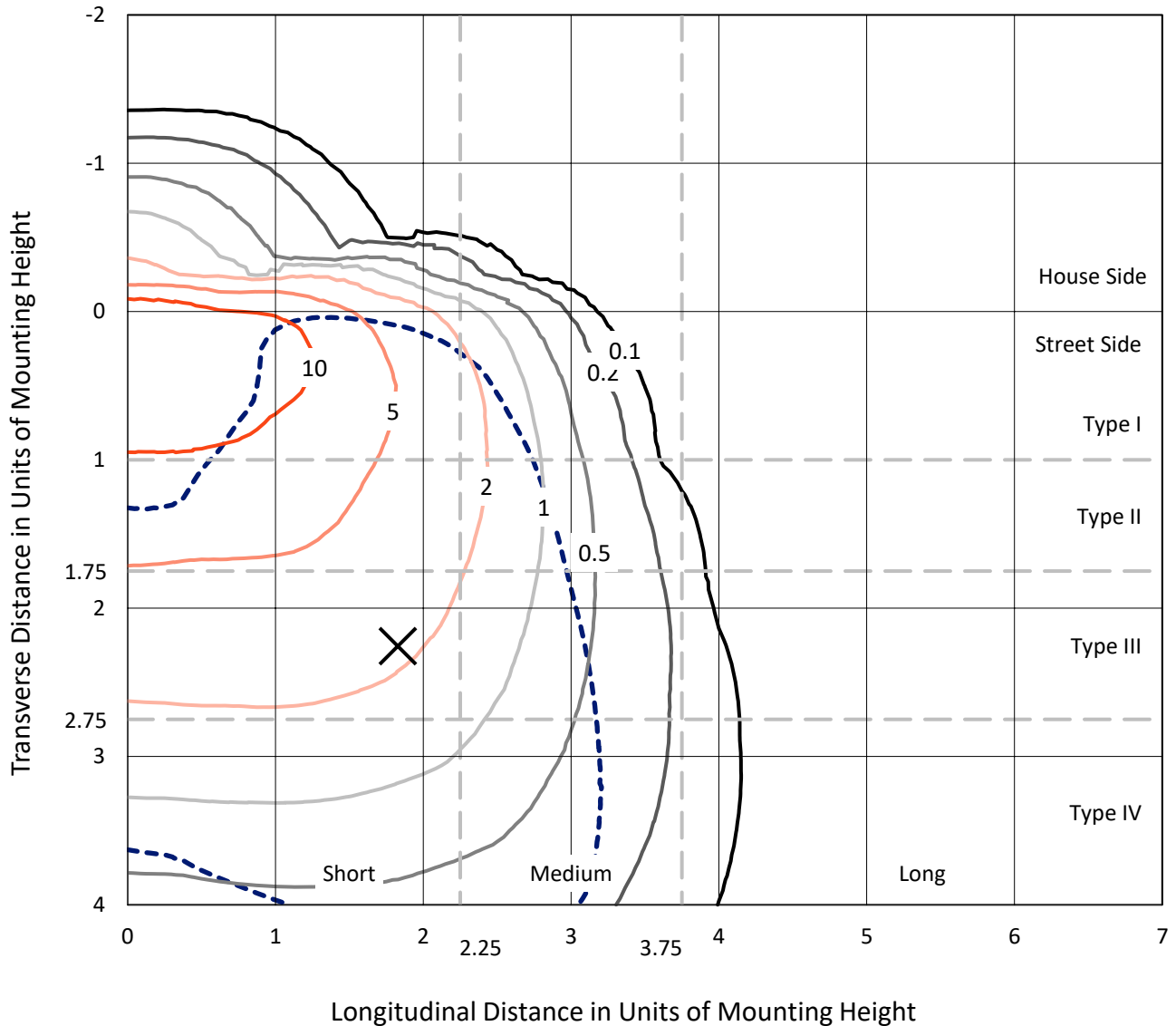
Lumens per Lamp: N/A  
Luminaire Lumens: 9432.4 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

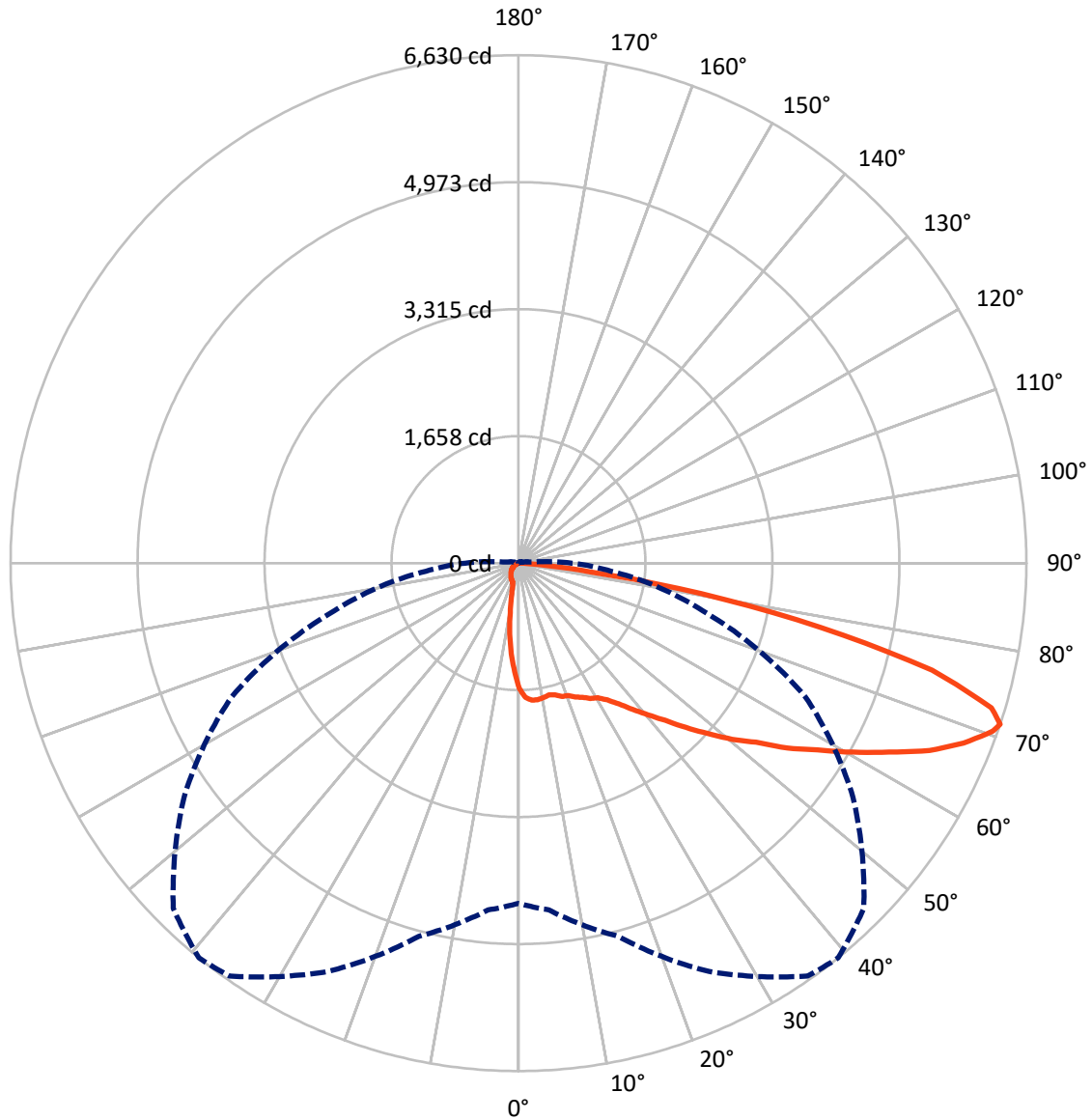
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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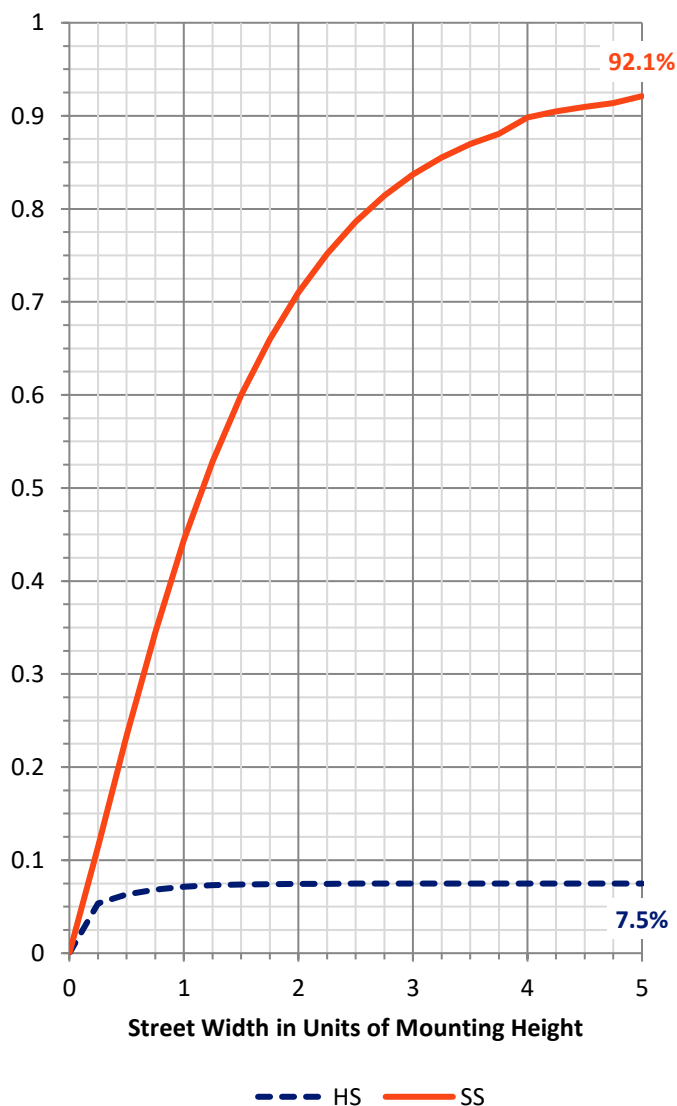
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	710.1	0.0	710.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	8722.3	0.0	8722.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	9432.4	0.0	9432.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.3	1.5
10°-20°	337.9	3.6
20°-30°	542.4	5.8
30°-40°	830.2	8.8
40°-50°	1332.7	14.1
50°-60°	1957.5	20.8
60°-70°	2465.4	26.1
70°-80°	1645.3	17.4
80°-90°	183.9	1.9
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°	9432.4	100.0
0°-180°	9432.4	100.0

**Coefficient of Utilization**



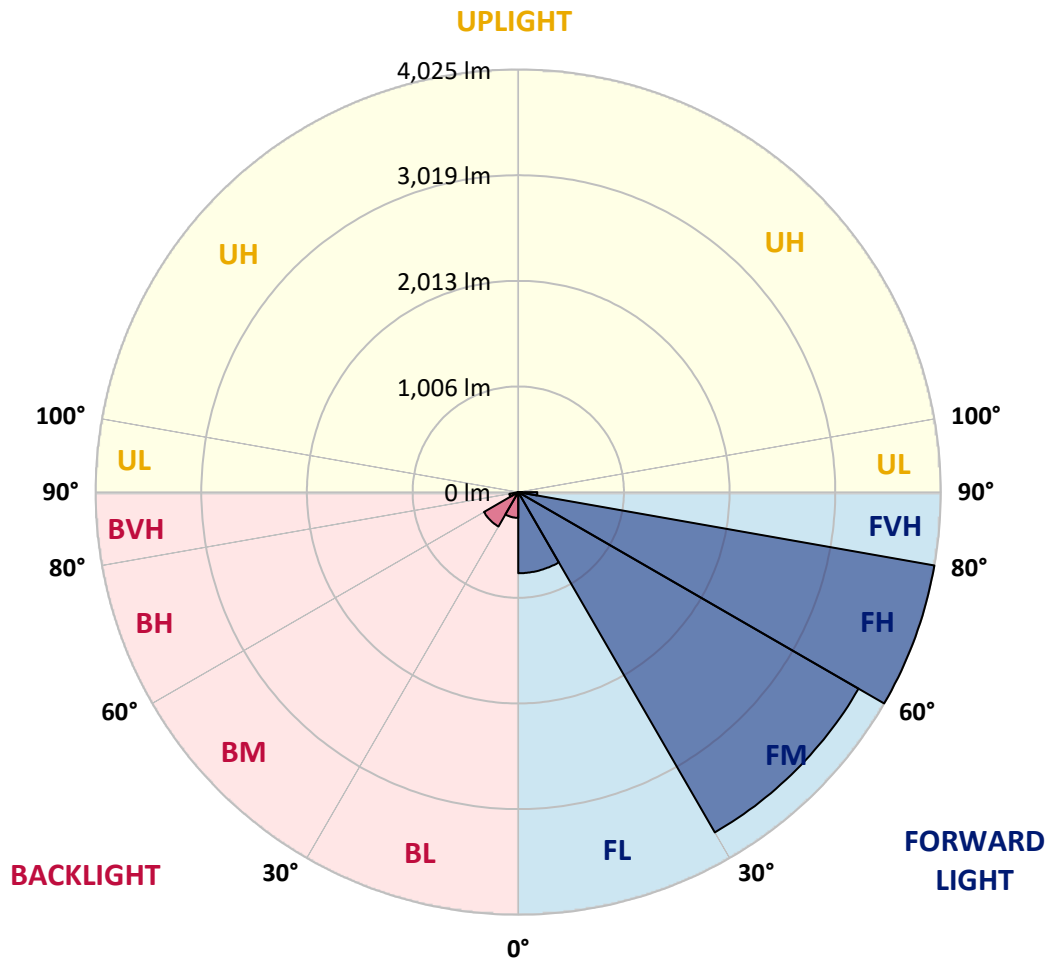
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.3	8.2			
FM (30°-60°)	3742.9	39.7			
FH (60°-80°)	4025.2	42.7			G2/5000
FVH (80°-90°)	181.8	1.9			G2/225
BL (0°-30°)	245.2	2.6	B1/500		
BM (30°-60°)	377.5	4.0	B1/1000		
BH (60°-80°)	85.5	0.9	B0/110		G0/110
BVH (80°-90°)	2.0	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8
2.5°	1769.2	1786.5	1769.2	1761.8	1754.4	1755.6	1735.8	1739.5	1716.0	1685.1	1660.3
5°	1824.9	1848.4	1829.8	1821.2	1819.9	1796.4	1786.5	1763.0	1734.6	1686.3	1656.6
7.5°	1819.9	1815.0	1823.6	1816.2	1800.1	1800.1	1789.0	1755.6	1727.1	1672.7	1622.0
10°	1782.8	1797.7	1790.2	1781.6	1785.3	1786.5	1765.5	1742.0	1733.3	1678.9	1596.0
12.5°	1779.1	1754.4	1781.6	1782.8	1766.7	1765.5	1763.0	1756.8	1729.6	1680.1	1602.2
15°	1766.7	1756.8	1784.1	1785.3	1789.0	1785.3	1789.0	1784.1	1756.8	1728.4	1629.4
17.5°	1776.6	1765.5	1803.8	1822.4	1813.7	1831.1	1824.9	1802.6	1779.1	1745.7	1655.4
20°	1779.1	1795.2	1837.3	1844.7	1871.9	1843.4	1842.2	1818.7	1803.8	1768.0	1671.5
22.5°	1824.9	1832.3	1884.3	1900.3	1901.6	1897.9	1866.9	1839.7	1833.5	1789.0	1675.2
25°	1894.2	1920.1	1943.7	1953.5	1957.3	1939.9	1907.8	1873.1	1858.3	1829.8	1713.5
27.5°	2016.6	2000.6	2021.6	2036.4	1994.4	2000.6	1959.7	1930.0	1909.0	1884.3	1758.1
30°	2125.5	2110.7	2111.9	2109.4	2073.6	2040.2	2029.0	1977.1	1951.1	1961.0	1827.4
32.5°	2223.3	2191.1	2218.3	2205.9	2139.1	2129.2	2120.6	2055.0	2059.9	2105.7	1931.3
35°	2313.6	2302.4	2324.7	2302.4	2257.9	2255.4	2246.8	2189.9	2217.1	2282.6	2109.4
37.5°	2396.5	2400.2	2427.4	2416.3	2420.0	2422.4	2417.5	2356.9	2434.8	2582.0	2317.3
40°	2473.2	2468.2	2535.0	2569.7	2577.1	2604.3	2604.3	2589.5	2709.5	2875.3	2605.6
42.5°	2554.8	2567.2	2653.8	2712.0	2782.5	2806.0	2838.2	2845.6	3031.2	3220.4	2900.0
45°	2688.4	2667.4	2777.5	2914.9	2976.7	3059.6	3109.1	3151.2	3375.1	3634.9	3194.5
47.5°	2857.9	2815.9	2912.4	3111.6	3255.1	3323.1	3412.2	3467.9	3686.9	3955.3	3472.8
50°	3046.0	3002.7	3049.7	3324.4	3491.4	3615.1	3728.9	3799.5	4064.2	4314.1	3675.7
52.5°	3258.8	3219.2	3226.6	3545.8	3792.0	3882.4	4032.1	4137.2	4400.7	4530.6	3747.5
55°	3485.2	3475.3	3451.8	3762.3	4055.6	4258.5	4348.8	4475.0	4745.9	4648.2	3825.4
57.5°	3712.9	3681.9	3715.3	4049.4	4478.7	4599.9	4724.9	4800.4	4937.7	4750.9	3795.7
60°	3926.9	3929.4	3976.4	4361.2	4838.7	5010.7	5123.3	5077.5	5134.4	4795.4	3727.7
62.5°	4107.5	4102.6	4221.3	4711.3	5315.0	5431.3	5515.5	5311.3	5226.0	4838.7	3608.9
65°	4269.6	4325.3	4512.1	5128.2	5762.9	5896.5	5845.8	5532.8	5315.0	4711.3	3274.9
67.5°	4392.1	4475.0	4799.1	5520.4	6173.7	6267.7	6197.2	5701.0	5209.9	4211.5	2667.4
70°	4463.8	4548.0	5004.5	5847.0	6501.5	6569.6	6403.8	5571.1	4596.2	3049.7	1664.0
71°	4441.6	4544.3	5044.1	5881.7	6579.5	6630.2	6372.8	5331.1	4133.5	2553.6	1213.7
72.5°	4239.9	4336.4	4879.5	5856.9	6485.4	6454.5	6131.6	4754.6	3253.9	1628.2	627.3
75°	3115.3	3219.2	4187.9	5066.4	5788.9	5576.1	4962.4	3336.7	1697.4	498.6	183.1
77.5°	1551.5	1568.8	2599.4	3678.2	4246.1	4034.5	3325.6	1860.8	634.7	147.2	91.6
80°	715.1	720.1	974.9	1905.3	2567.2	2416.3	1863.2	918.0	287.0	77.9	71.8
82.5°	487.5	494.9	587.7	789.3	1114.7	940.3	754.7	587.7	164.5	47.0	70.5
85°	89.1	81.7	329.1	418.2	430.5	292.0	261.1	508.5	61.9	27.2	61.9
87.5°	0.0	1.2	45.8	170.7	153.4	68.0	89.1	123.7	6.2	8.7	11.1
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°	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8	1641.8
2.5°	1639.3	1625.7	1579.9	1529.2	1483.4	1447.5	1401.8	1380.7	1347.3	1328.8	1327.5
5°	1615.8	1578.7	1499.5	1414.1	1318.9	1239.7	1151.8	1102.4	1045.4	1028.1	1024.4
7.5°	1576.2	1523.0	1406.7	1286.7	1140.7	1000.9	893.3	778.2	707.7	678.0	666.9
10°	1551.5	1487.1	1328.8	1149.4	945.2	748.5	597.6	475.1	410.8	379.8	372.4
12.5°	1551.5	1482.2	1265.7	1018.2	747.3	512.2	369.9	299.4	278.4	270.9	270.9
15°	1547.7	1472.3	1205.0	883.4	553.0	343.9	275.9	261.1	258.6	257.3	256.1
17.5°	1566.3	1455.0	1143.2	738.6	391.0	270.9	253.6	251.2	248.7	248.7	246.2
20°	1579.9	1445.1	1068.9	585.2	292.0	251.2	243.7	240.0	238.8	237.5	240.0
22.5°	1568.8	1430.2	977.4	438.0	254.9	238.8	233.8	230.1	227.6	227.6	228.9
25°	1589.8	1416.6	885.8	330.3	238.8	227.6	222.7	220.2	219.0	217.7	215.3
27.5°	1618.3	1422.8	777.0	266.0	225.2	216.5	211.6	209.1	207.9	205.4	207.9
30°	1652.9	1421.6	657.0	232.6	212.8	204.1	199.2	198.0	195.5	194.2	195.5
32.5°	1712.3	1453.7	533.2	215.3	199.2	191.8	186.8	185.6	184.3	183.1	181.9
35°	1839.7	1493.3	416.9	201.7	186.8	178.2	174.4	172.0	170.7	169.5	168.3
37.5°	1996.9	1581.1	318.0	189.3	174.4	165.8	162.1	160.8	155.9	154.7	153.4
40°	2193.6	1675.2	245.0	175.7	163.3	154.7	150.9	147.2	141.0	138.6	136.1
42.5°	2438.5	1766.7	201.7	163.3	150.9	144.8	138.6	132.4	127.4	122.5	120.0
45°	2683.5	1873.1	176.9	152.2	141.0	133.6	128.7	120.0	111.3	103.9	102.7
47.5°	2887.6	1911.5	162.1	139.8	131.1	125.0	117.5	106.4	94.0	86.6	85.4
50°	3039.8	1889.2	147.2	127.4	120.0	113.8	103.9	90.3	77.9	70.5	68.0
52.5°	3069.5	1791.5	133.6	117.5	108.9	101.5	90.3	75.5	61.9	54.4	53.2
55°	3048.5	1629.4	122.5	108.9	99.0	87.8	75.5	60.6	48.3	40.8	39.6
57.5°	3005.2	1437.6	110.1	97.7	86.6	75.5	61.9	49.5	35.9	28.5	28.5
60°	2857.9	1176.6	97.7	85.4	74.2	64.3	50.7	35.9	24.7	18.6	17.3
62.5°	2652.6	904.4	85.4	73.0	64.3	53.2	39.6	26.0	14.8	9.9	9.9
65°	2277.7	633.4	71.8	60.6	53.2	43.3	29.7	16.1	8.7	3.7	3.7
67.5°	1730.9	392.2	59.4	50.7	45.8	34.6	21.0	9.9	3.7	1.2	0.0
70°	993.5	204.1	47.0	40.8	35.9	26.0	14.8	4.9	2.5	0.0	0.0
71°	694.1	150.9	42.1	35.9	32.2	23.5	12.4	3.7	1.2	0.0	0.0
72.5°	347.7	100.2	35.9	29.7	26.0	18.6	9.9	3.7	1.2	0.0	0.0
75°	123.7	64.3	24.7	19.8	18.6	13.6	6.2	2.5	1.2	0.0	0.0
77.5°	85.4	52.0	17.3	12.4	12.4	8.7	3.7	1.2	1.2	0.0	0.0
80°	77.9	28.5	11.1	7.4	6.2	4.9	2.5	1.2	0.0	0.0	0.0
82.5°	77.9	21.0	6.2	4.9	3.7	2.5	1.2	0.0	0.0	0.0	0.0
85°	54.4	11.1	3.7	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.7	2.5	1.2	1.2	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)