

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: P480609

Luminaire Tested: **IFLD-S-SA2B-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480609  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

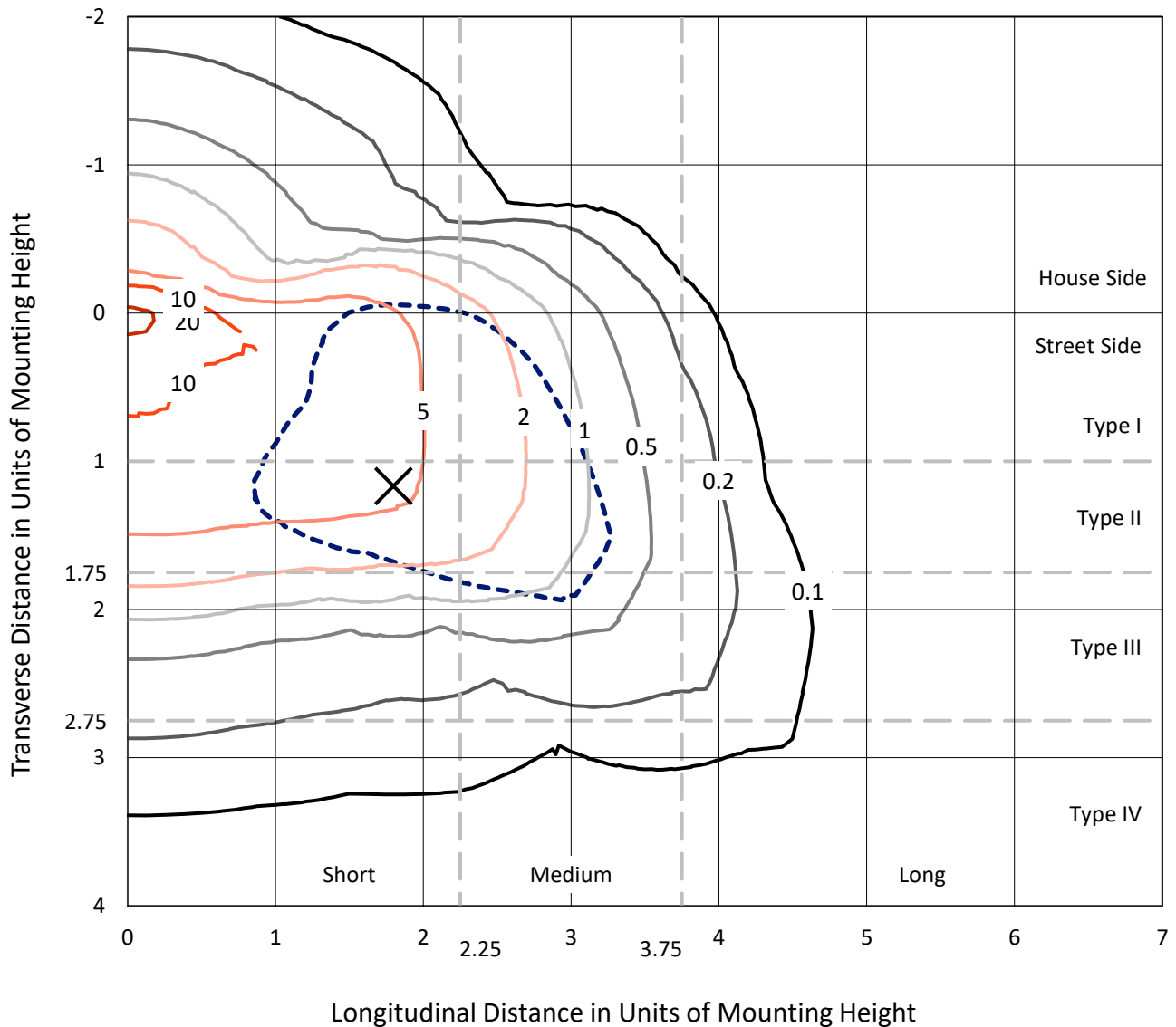
Lumens per Lamp: N/A  
Luminaire Lumens: 8281.8 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

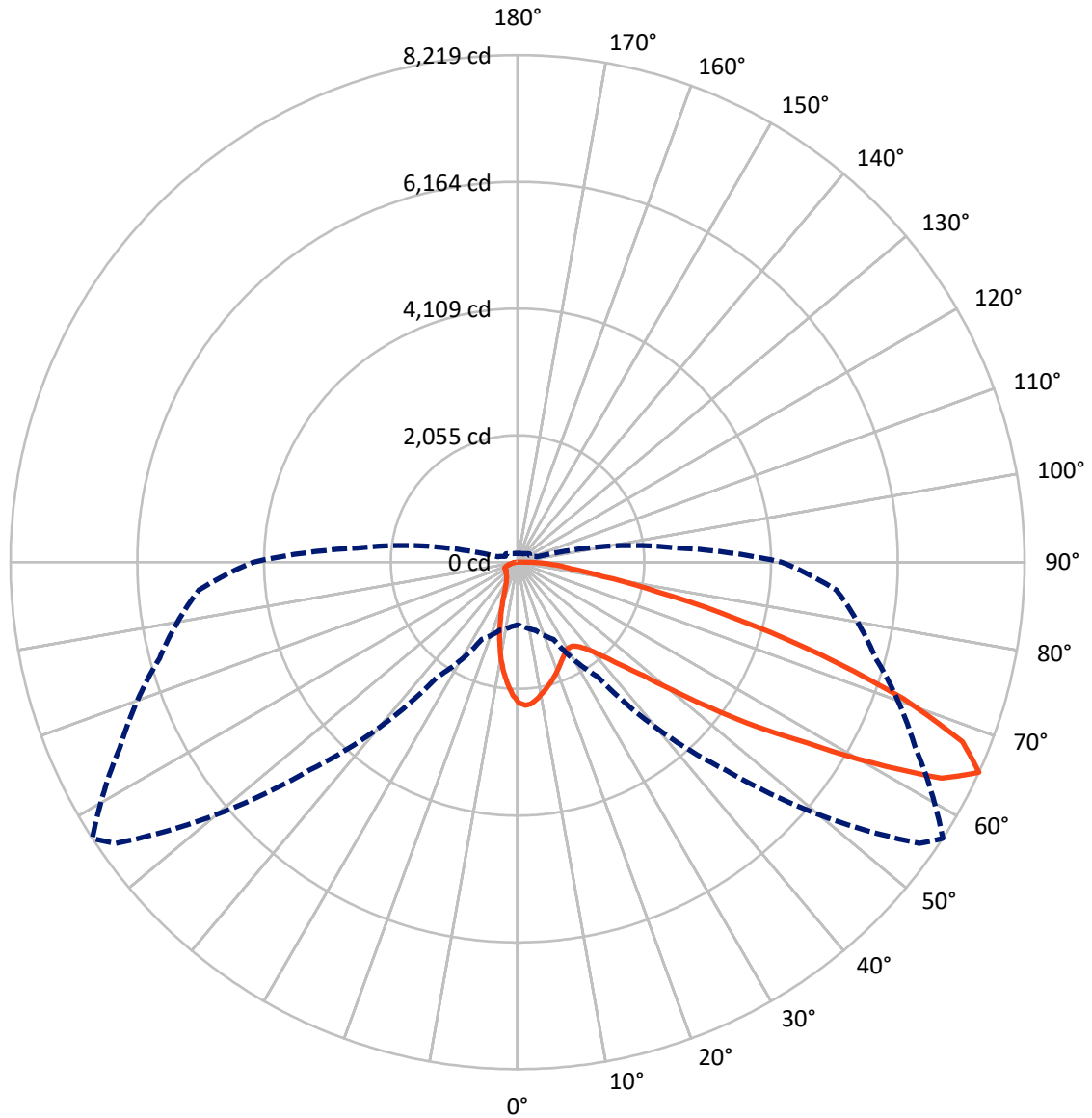
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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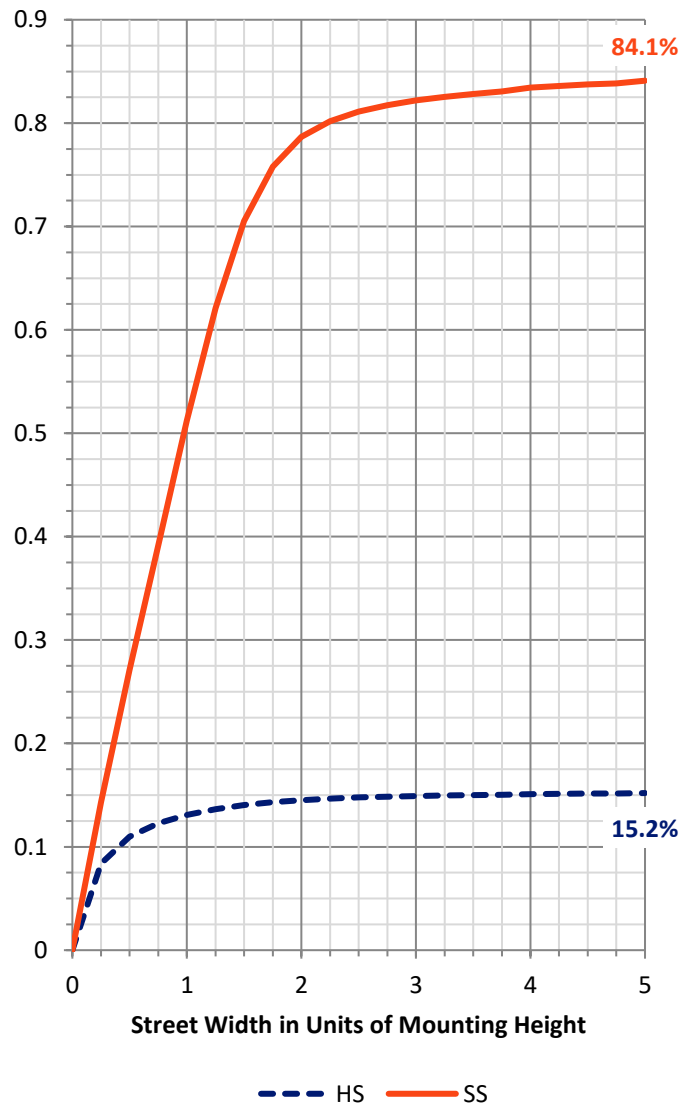
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1270.1	0.0	1270.1
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	7011.7	0.0	7011.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	8281.8	0.0	8281.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.7	2.3
10°-20°	410.4	5.0
20°-30°	530.7	6.4
30°-40°	714.1	8.6
40°-50°	1138.7	13.7
50°-60°	2011.2	24.3
60°-70°	2212.6	26.7
70°-80°	925.6	11.2
80°-90°	147.9	1.8
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°	8281.8	100.0
0°-180°	8281.8	100.0

**Coefficient of Utilization**

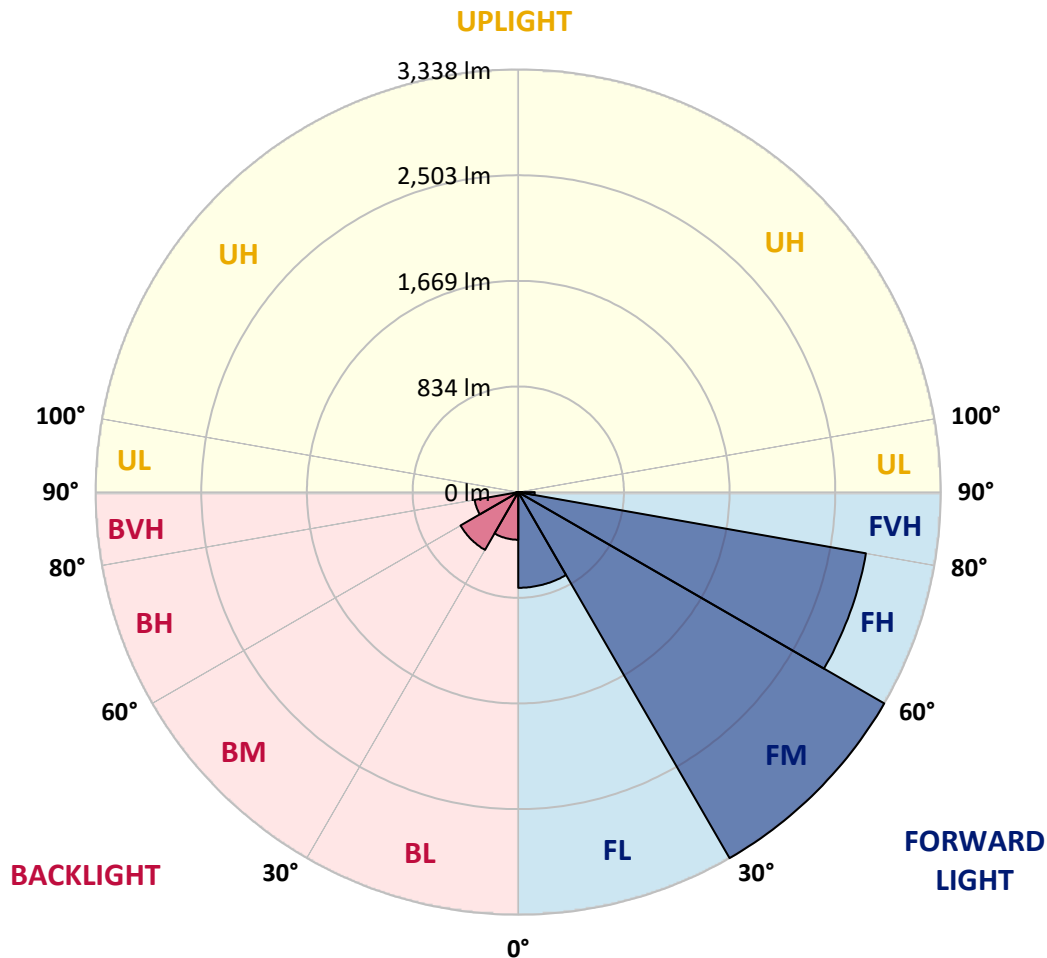


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.7	9.1			
FM (30°-60°)	3337.5	40.3			
FH (60°-80°)	2787.9	33.7			G2/5000
FVH (80°-90°)	130.6	1.6			G2/225
BL (0°-30°)	376.1	4.5	B1/500		
BM (30°-60°)	526.4	6.4	B1/1000		
BH (60°-80°)	350.2	4.2	B1/500		G1/500
BVH (80°-90°)	17.4	0.2			G1/100
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°	57°	65°	75°	85°
0°	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4
2.5°	2338.9	2342.6	2342.6	2350.1	2324.9	2337.0	2335.1	2324.0	2327.7	2308.1	2288.6
5°	2272.7	2269.9	2284.8	2286.7	2306.3	2311.9	2316.5	2309.1	2310.9	2268.1	2249.4
7.5°	2103.1	2102.2	2127.4	2148.8	2189.8	2228.0	2253.1	2245.7	2255.9	2228.9	2185.1
10°	1901.9	1923.3	1949.4	1970.8	2046.3	2094.7	2160.0	2166.5	2205.6	2199.1	2119.9
12.5°	1750.9	1760.2	1779.8	1841.3	1910.2	1990.4	2083.6	2091.9	2130.1	2148.8	2079.8
15°	1627.0	1635.3	1660.5	1706.2	1783.5	1878.6	1996.9	2018.3	2094.7	2101.3	2027.6
17.5°	1536.6	1543.1	1559.9	1605.5	1668.9	1791.0	1902.8	1941.0	2041.6	2073.3	1973.6
20°	1501.2	1487.2	1496.5	1525.4	1588.8	1682.9	1827.3	1860.9	1989.4	2051.9	1922.4
22.5°	1485.3	1473.2	1478.8	1476.9	1527.3	1594.3	1746.2	1781.6	1940.1	2026.7	1876.7
25°	1497.4	1497.4	1491.8	1487.2	1492.8	1536.6	1658.6	1713.6	1873.9	2005.3	1830.1
27.5°	1562.7	1537.5	1540.3	1520.7	1515.1	1515.1	1619.5	1652.1	1852.5	1993.2	1791.9
30°	1604.6	1616.7	1617.6	1588.8	1559.9	1507.7	1583.2	1614.8	1834.8	2008.1	1769.5
32.5°	1711.8	1706.2	1690.3	1684.7	1641.9	1583.2	1600.9	1622.3	1824.5	2041.6	1776.1
35°	1818.9	1816.1	1817.1	1814.3	1769.5	1682.9	1648.4	1677.3	1843.1	2100.3	1798.4
37.5°	1929.8	1937.3	1968.9	1968.9	1921.4	1827.3	1781.6	1773.3	1911.2	2196.3	1851.5
40°	2040.7	2059.3	2099.4	2162.8	2095.7	2008.1	1934.5	1921.4	1993.2	2324.9	1979.2
42.5°	2146.9	2177.7	2256.9	2351.0	2328.6	2241.0	2143.2	2128.3	2161.8	2515.9	2157.2
45°	2283.0	2309.1	2433.9	2578.4	2609.1	2531.8	2417.1	2405.0	2403.2	2795.5	2402.2
47.5°	2489.8	2517.8	2642.6	2788.0	2883.1	2895.2	2766.6	2753.5	2708.8	3172.9	2761.0
50°	2748.9	2794.5	2899.8	3069.4	3207.3	3336.9	3300.5	3262.3	3174.7	3611.7	3215.7
52.5°	2938.0	2993.9	3136.5	3353.6	3596.8	3802.8	3933.2	3933.2	3732.0	4093.5	3762.7
55°	2988.4	3021.9	3201.7	3515.8	3932.3	4453.2	4726.2	4705.7	4395.4	4600.4	4399.1
57.5°	2788.0	2831.8	3049.9	3378.8	4108.4	5061.7	5513.6	5518.3	5120.4	5189.3	5027.2
60°	2236.4	2250.4	2507.5	2947.4	3938.8	5551.8	6588.9	6606.6	5945.0	5713.9	5346.8
62.5°	1545.9	1590.6	1784.4	2170.2	3263.2	5496.8	7626.0	7713.6	6605.7	5990.7	5397.1
65°	1017.6	1044.6	1148.0	1382.8	2271.8	4764.4	7948.4	8218.7	7110.7	6006.5	5186.5
67.5°	738.0	742.7	773.4	894.5	1365.1	3426.3	7397.7	7778.9	7299.9	5874.2	4692.7
70°	596.4	600.1	611.3	688.6	881.5	2144.1	6033.6	6630.9	6732.4	5247.1	3779.5
72.5°	484.5	489.2	503.2	575.9	726.8	1192.7	4412.2	5139.9	5476.3	3882.0	2512.2
75°	381.1	384.8	418.4	490.1	683.0	819.1	2926.9	3639.7	3685.4	2269.0	1176.0
77.5°	260.9	267.4	308.4	415.6	643.0	716.6	1824.5	2331.4	2091.9	888.0	404.4
80°	165.9	175.2	199.4	315.0	568.4	684.0	1135.0	1392.1	916.0	303.8	194.8
82.5°	97.8	107.2	131.4	204.1	446.3	634.6	799.5	871.3	429.6	155.6	117.4
85°	54.0	60.6	79.2	123.0	261.8	563.8	640.2	625.3	246.0	82.9	73.6
87.5°	17.7	20.5	28.9	49.4	108.1	265.6	383.9	360.6	127.7	38.2	28.9
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°	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4	2277.4
2.5°	2275.5	2272.7	2230.8	2199.1	2145.1	2100.3	2082.6	2058.4	2057.5	2039.8	2035.1
5°	2220.5	2191.6	2127.4	2065.9	1969.9	1905.6	1846.9	1805.9	1789.1	1752.8	1744.4
7.5°	2149.7	2111.5	2012.7	1897.2	1784.4	1683.8	1592.5	1501.2	1449.9	1432.2	1412.6
10°	2076.1	2009.0	1862.7	1733.2	1575.7	1421.0	1277.5	1148.9	1079.1	1029.7	1008.2
12.5°	2017.4	1927.9	1741.6	1547.8	1340.0	1133.1	966.3	831.2	752.0	714.7	697.9
15°	1951.2	1832.9	1609.3	1364.2	1105.1	870.3	707.3	601.0	569.3	551.6	548.8
17.5°	1881.4	1744.4	1465.8	1183.4	875.9	655.1	549.8	506.9	492.9	485.5	481.8
20°	1816.1	1665.2	1318.5	982.1	685.8	525.5	476.2	453.8	452.9	456.6	455.7
22.5°	1723.9	1561.7	1173.2	795.8	547.9	457.5	425.8	420.3	425.8	430.5	432.4
25°	1671.7	1476.9	1011.0	631.8	452.9	406.3	396.0	394.2	402.5	408.1	407.2
27.5°	1617.6	1389.3	860.1	506.0	397.0	369.9	368.1	369.9	378.3	386.7	385.8
30°	1575.7	1319.5	718.4	423.0	354.1	343.8	342.0	343.8	348.5	349.4	349.4
32.5°	1541.2	1236.5	598.2	367.1	328.0	319.6	321.5	320.5	321.5	322.4	323.3
35°	1520.7	1187.1	499.5	332.7	306.6	300.0	299.1	296.3	297.3	298.2	297.3
37.5°	1564.5	1162.9	421.2	308.4	291.7	286.1	284.2	282.3	279.5	279.5	279.5
40°	1630.7	1149.9	373.7	292.6	280.5	274.0	268.4	266.5	266.5	267.4	268.4
42.5°	1762.1	1171.3	341.0	280.5	266.5	259.0	253.5	254.4	257.2	260.0	258.1
45°	1952.2	1236.5	326.1	271.2	258.1	247.9	244.1	243.2	246.0	250.7	254.4
47.5°	2201.0	1338.1	320.5	262.8	252.5	238.5	233.9	236.7	240.4	246.9	244.1
50°	2608.2	1566.4	325.2	255.3	244.1	233.9	228.3	225.5	228.3	233.0	234.8
52.5°	3140.2	1981.1	342.9	251.6	238.5	230.2	220.8	216.2	219.0	222.7	222.7
55°	3776.7	2547.6	392.3	246.9	229.2	224.6	214.3	205.0	206.9	206.9	205.9
57.5°	4337.6	2975.3	451.0	240.4	223.6	217.1	204.1	192.9	191.0	192.0	192.9
60°	4589.2	3089.0	479.0	238.5	223.6	207.8	190.1	178.9	176.1	174.3	174.3
62.5°	4545.4	2892.4	422.1	230.2	229.2	200.3	177.0	164.9	161.2	157.5	158.4
65°	4280.8	2611.9	332.7	219.0	230.2	195.7	164.0	151.9	145.4	140.7	139.8
67.5°	3797.2	2229.9	263.7	210.6	220.8	187.3	152.8	138.8	133.3	128.6	126.7
70°	2970.7	1748.1	229.2	199.4	198.5	166.8	139.8	127.7	119.3	113.7	113.7
72.5°	1926.1	1105.1	196.6	177.0	171.5	139.8	121.1	113.7	107.2	102.5	102.5
75°	872.2	513.4	158.4	148.2	139.8	111.8	102.5	98.8	93.2	88.5	88.5
77.5°	313.1	219.0	118.3	116.5	104.4	86.7	82.9	80.1	76.4	71.8	71.8
80°	175.2	138.8	88.5	84.8	72.7	64.3	59.6	59.6	57.8	55.0	54.0
82.5°	110.9	90.4	65.2	56.8	47.5	42.9	41.0	40.1	39.1	35.4	34.5
85°	69.9	61.5	42.9	33.5	28.0	21.4	20.5	19.6	17.7	15.8	15.8
87.5°	31.7	35.4	16.8	10.3	7.5	4.7	2.8	0.9	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)