

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: P484513

Luminaire Tested: **IFLD-S-SA3A-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

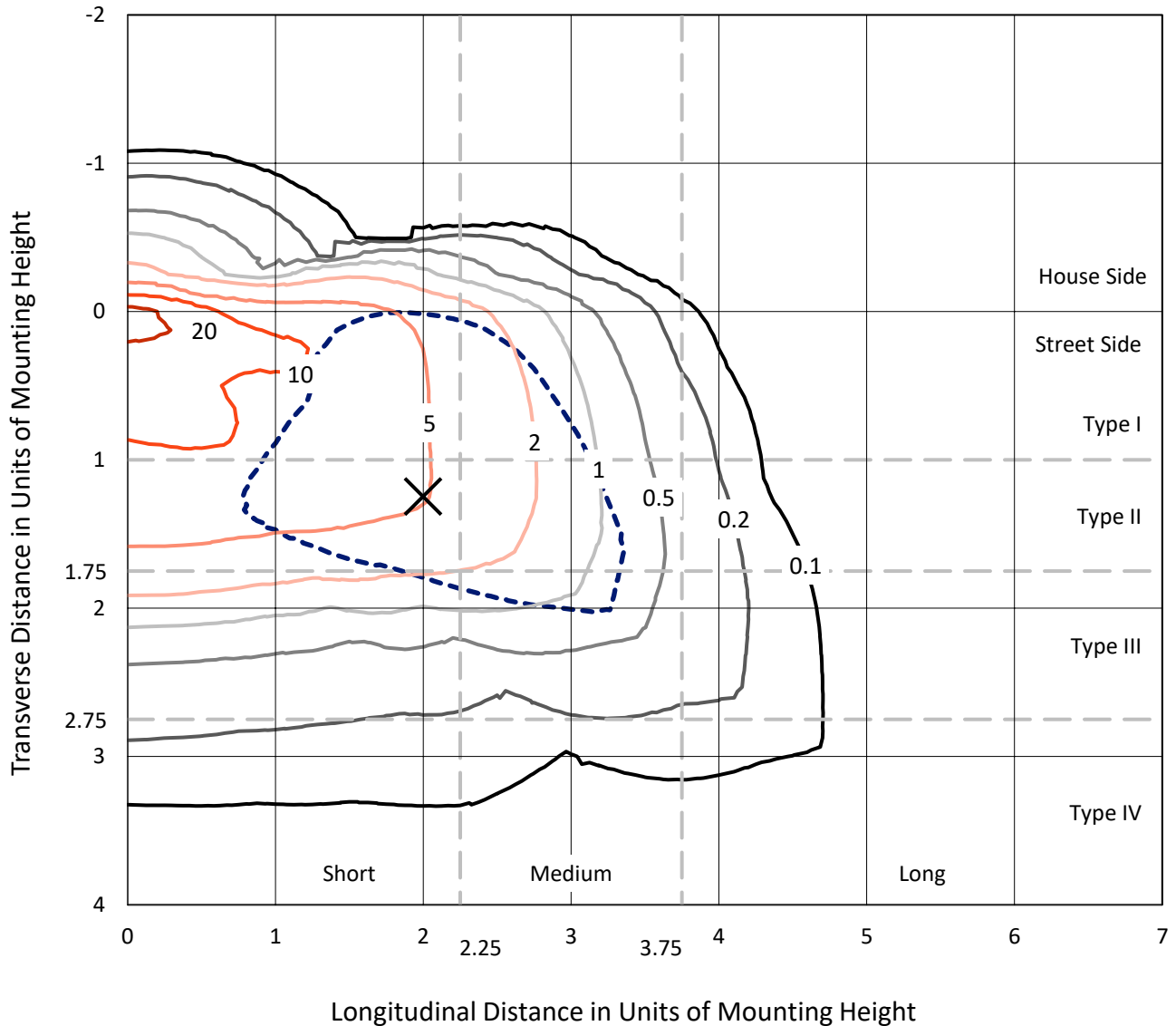
Lumens per Lamp: N/A
Luminaire Lumens: 8458.2 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

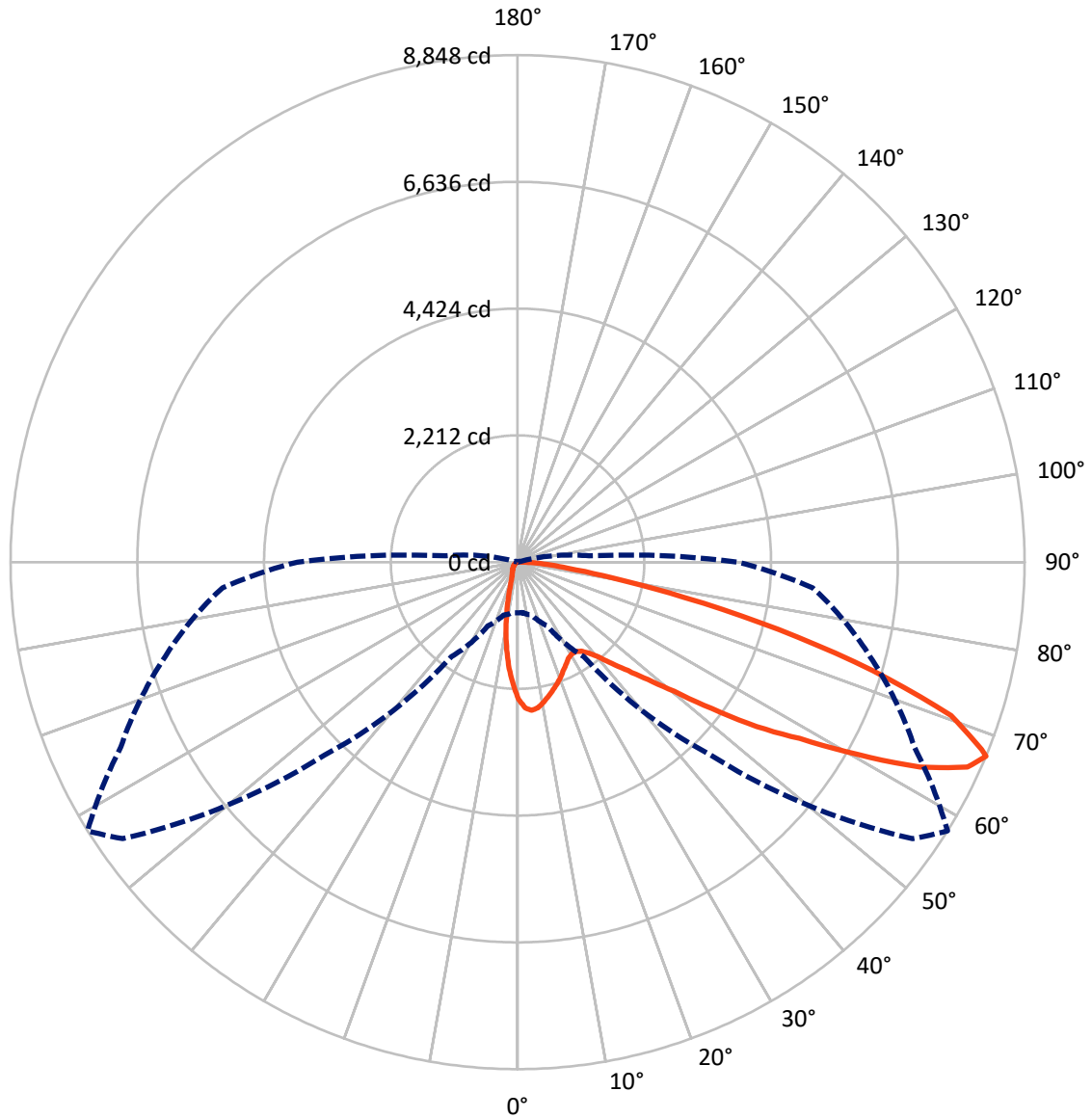
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24 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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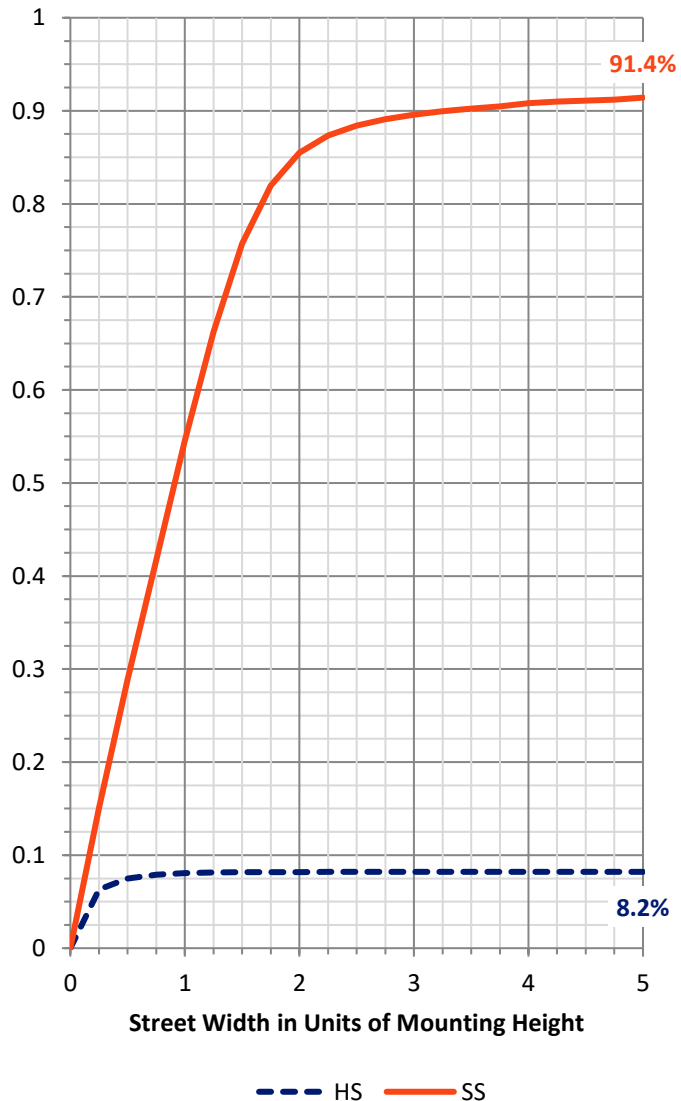
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.1	0.0	699.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	7759.1	0.0	7759.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	8458.2	0.0	8458.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	2.2
10°-20°	394.4	4.7
20°-30°	523.3	6.2
30°-40°	725.1	8.6
40°-50°	1183.1	14.0
50°-60°	2079.5	24.6
60°-70°	2303.2	27.2
70°-80°	954.5	11.3
80°-90°	105.1	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°	8458.2	100.0
0°-180°	8458.2	100.0

Coefficient of Utilization



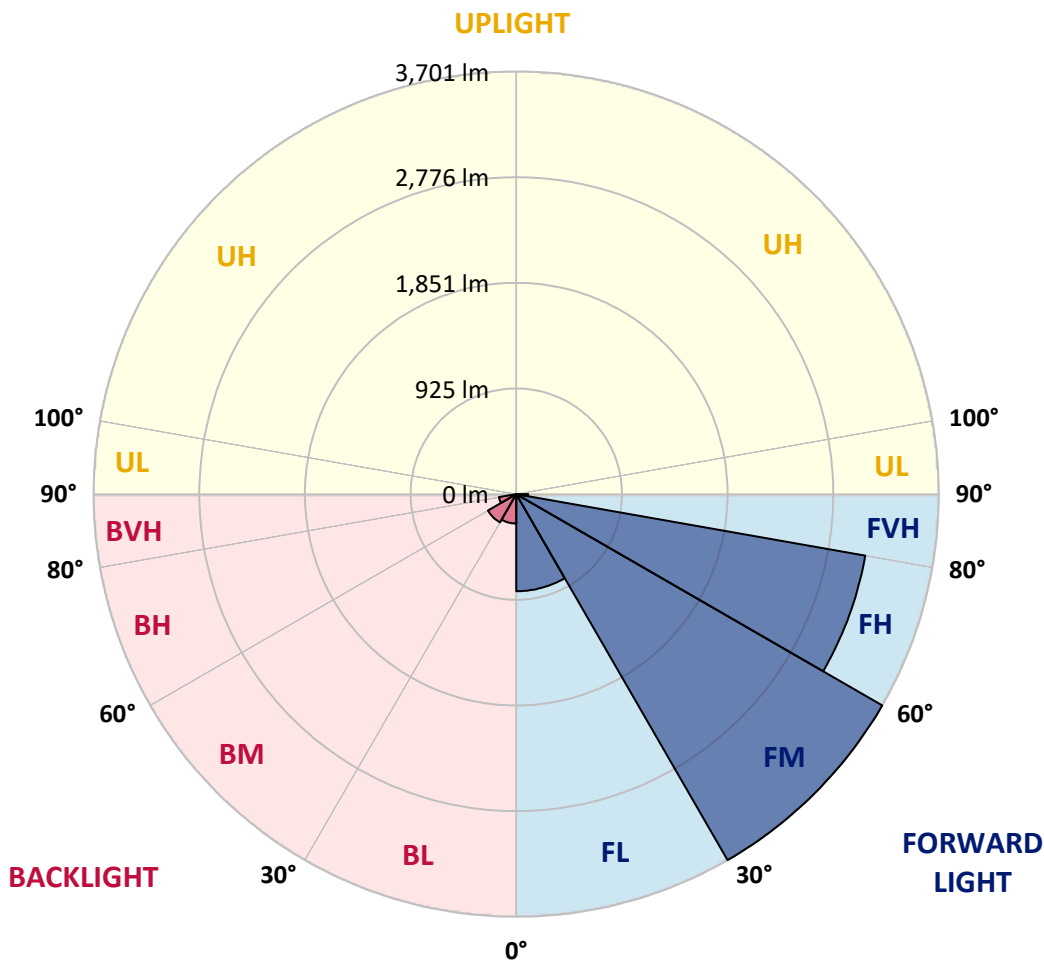
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.3	10.1			
FM (30°-60°)	3701.5	43.8			
FH (60°-80°)	3104.0	36.7			G2/5000
FVH (80°-90°)	103.3	1.2			G2/225
BL (0°-30°)	257.5	3.0	B1/500		
BM (30°-60°)	286.2	3.4	B1/1000		
BH (60°-80°)	153.7	1.8	B1/500		G1/500
BVH (80°-90°)	1.7	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°	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3
2.5°	2607.4	2616.4	2624.3	2609.7	2622.0	2604.1	2558.0	2547.9	2540.1	2471.6	2432.3
5°	2606.3	2596.2	2604.1	2610.8	2594.0	2607.4	2596.2	2597.3	2567.0	2505.2	2395.2
7.5°	2432.3	2427.8	2432.3	2464.8	2501.9	2531.1	2547.9	2564.8	2544.5	2452.5	2345.8
10°	2197.6	2220.0	2232.4	2290.8	2348.0	2401.9	2454.7	2486.2	2480.5	2443.5	2291.9
12.5°	2033.6	2026.9	2071.8	2110.0	2167.2	2276.2	2368.3	2397.4	2431.1	2379.5	2221.1
15°	1882.0	1864.1	1891.0	1957.3	2055.0	2141.4	2270.6	2314.3	2357.0	2370.5	2183.0
17.5°	1737.2	1746.1	1774.2	1833.7	1925.8	2047.1	2168.4	2231.3	2333.4	2315.5	2125.7
20°	1667.5	1686.6	1696.7	1727.1	1791.1	1912.3	2093.1	2143.7	2252.6	2314.3	2069.6
22.5°	1670.9	1670.9	1647.3	1665.3	1723.7	1818.0	1990.9	2047.1	2220.0	2256.0	2019.0
25°	1706.8	1684.4	1685.5	1664.2	1688.9	1740.5	1898.9	1967.4	2153.8	2261.6	1992.1
27.5°	1733.8	1729.3	1722.6	1717.0	1685.5	1693.4	1838.2	1894.4	2127.9	2254.8	1950.5
30°	1831.5	1811.3	1804.5	1792.2	1750.6	1712.5	1789.9	1860.7	2107.7	2270.6	1926.9
32.5°	1913.5	1916.8	1922.4	1886.5	1850.6	1756.3	1803.4	1859.6	2093.1	2306.5	1950.5
35°	2016.8	2031.4	2033.6	2022.4	1984.2	1891.0	1859.6	1907.9	2117.8	2370.5	1952.8
37.5°	2174.0	2158.3	2200.9	2205.4	2178.5	2055.0	1989.8	2008.9	2190.8	2472.7	2038.1
40°	2276.2	2295.3	2375.0	2424.4	2378.4	2266.1	2178.5	2175.1	2296.4	2633.3	2143.7
42.5°	2389.6	2432.3	2519.8	2626.5	2620.9	2516.5	2427.8	2413.2	2483.9	2865.7	2311.0
45°	2544.5	2582.7	2705.1	2865.7	2953.3	2864.6	2731.0	2701.8	2711.9	3182.4	2596.2
47.5°	2801.7	2791.6	2967.9	3126.2	3270.0	3201.5	3144.2	3058.8	3051.0	3555.2	2990.4
50°	3092.5	3090.3	3247.5	3427.2	3593.4	3727.0	3631.5	3538.3	3540.6	4061.6	3454.1
52.5°	3368.8	3412.6	3582.1	3760.7	4045.9	4189.6	4281.7	4244.7	4066.1	4514.2	3950.5
55°	3514.8	3552.9	3721.4	4029.1	4479.4	4848.8	5098.1	5066.6	4721.9	5024.0	4440.0
57.5°	3376.6	3402.5	3630.4	4033.5	4782.5	5606.8	5846.0	5806.6	5400.1	5413.6	5031.8
60°	2798.3	2838.8	3177.9	3650.6	4664.6	6190.7	6875.7	6816.2	6017.8	5906.6	5412.5
62.5°	1938.2	1965.1	2243.6	2832.0	4105.4	6393.9	7848.1	7880.7	6669.1	6290.6	5525.9
65°	1255.4	1253.2	1412.6	1811.3	2909.5	5778.6	8423.1	8625.2	7297.9	6349.0	5491.1
67°	887.1	883.7	959.0	1228.5	2014.5	4761.2	8413.0	8847.5	7639.3	6365.9	5168.8
67.5°	818.6	815.2	887.1	1129.7	1818.0	4427.7	8287.2	8733.0	7759.4	6342.3	5027.3
70°	635.6	626.6	653.5	778.2	1058.9	2863.5	7092.4	8022.2	7510.1	5753.9	4014.5
72.5°	459.3	469.4	512.1	638.9	831.0	1540.7	5405.8	6487.1	6272.7	4336.7	2551.3
75°	320.0	329.0	397.5	521.0	762.5	934.3	3655.1	4705.1	4369.3	2394.1	1087.0
77.5°	167.3	178.5	253.8	416.6	692.8	723.2	2184.1	2983.6	2315.5	852.3	299.8
80°	77.5	83.1	126.9	295.3	579.4	635.6	1273.4	1659.7	926.4	190.9	103.3
82.5°	33.7	37.1	58.4	169.6	411.0	555.8	788.3	870.3	335.8	61.8	64.0
85°	6.7	7.9	22.5	89.8	198.8	336.9	553.6	516.5	168.4	30.3	50.5
87.5°	0.0	0.0	5.6	25.8	53.9	99.9	234.7	234.7	51.7	15.7	19.1
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°	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3	2396.3
2.5°	2397.4	2357.0	2268.3	2186.3	2127.9	2061.7	1974.1	1934.8	1920.2	1900.0	1869.7
5°	2334.6	2285.2	2133.6	1980.8	1813.5	1686.6	1551.9	1473.3	1413.8	1376.7	1364.4
7.5°	2245.9	2144.8	1940.4	1695.6	1478.9	1290.2	1085.9	947.7	859.0	823.1	789.4
10°	2175.1	2043.7	1732.7	1428.4	1139.8	863.5	633.3	512.1	420.0	385.2	380.7
12.5°	2083.0	1925.8	1538.4	1155.5	792.8	514.3	350.4	304.3	278.5	274.0	270.6
15°	2006.7	1819.1	1354.2	895.0	513.2	321.2	272.9	261.6	254.9	252.7	253.8
17.5°	1955.0	1704.6	1165.6	651.3	338.0	262.8	251.5	244.8	241.4	240.3	236.9
20°	1852.8	1608.0	979.2	455.9	263.9	242.6	233.6	228.0	224.6	223.5	222.3
22.5°	1794.4	1485.6	792.8	317.8	234.7	220.1	213.4	208.9	203.2	199.9	198.8
25°	1736.0	1395.8	626.6	247.0	213.4	203.2	193.1	187.5	178.5	174.1	172.9
27.5°	1667.5	1307.1	482.9	214.5	192.0	181.9	171.8	162.8	151.6	147.1	144.9
30°	1628.2	1220.6	363.8	192.0	176.3	162.8	150.5	139.2	126.9	119.0	116.8
32.5°	1608.0	1142.0	272.9	175.2	159.5	144.9	129.1	115.7	104.4	97.7	96.6
35°	1583.3	1065.7	214.5	159.5	143.7	128.0	112.3	98.8	87.6	82.0	79.7
37.5°	1609.2	1020.7	178.5	147.1	131.4	113.4	96.6	83.1	74.1	68.5	67.4
40°	1679.9	983.7	155.0	135.9	119.0	99.9	84.2	70.7	62.9	58.4	56.1
42.5°	1788.8	983.7	140.4	124.6	107.8	87.6	71.9	61.8	53.9	49.4	48.3
45°	1986.5	1014.0	128.0	113.4	94.3	75.2	61.8	51.7	43.8	39.3	38.2
47.5°	2263.8	1083.6	117.9	103.3	84.2	66.3	53.9	43.8	35.9	31.4	30.3
50°	2636.6	1242.0	107.8	91.0	75.2	57.3	44.9	34.8	28.1	23.6	22.5
52.5°	3101.5	1466.5	97.7	84.2	64.0	48.3	35.9	28.1	21.3	18.0	16.8
55°	3593.4	1741.7	85.3	75.2	55.0	40.4	29.2	21.3	15.7	13.5	12.4
57.5°	4088.6	1953.9	75.2	65.1	44.9	32.6	23.6	16.8	11.2	9.0	7.9
60°	4351.3	1974.1	65.1	53.9	35.9	25.8	18.0	12.4	7.9	5.6	4.5
62.5°	4391.8	1794.4	56.1	43.8	29.2	20.2	12.4	9.0	4.5	2.2	2.2
65°	4184.0	1495.7	48.3	34.8	22.5	14.6	9.0	5.6	2.2	1.1	0.0
67°	3847.1	1253.2	41.5	29.2	18.0	11.2	6.7	3.4	1.1	0.0	0.0
67.5°	3716.9	1185.8	39.3	27.0	16.8	10.1	5.6	3.4	1.1	0.0	0.0
70°	2884.8	846.7	29.2	19.1	12.4	7.9	4.5	2.2	0.0	0.0	0.0
72.5°	1767.5	495.2	22.5	13.5	9.0	5.6	3.4	1.1	0.0	0.0	0.0
75°	741.1	170.7	19.1	10.1	6.7	3.4	2.2	1.1	0.0	0.0	0.0
77.5°	193.1	64.0	13.5	6.7	4.5	3.4	2.2	1.1	0.0	0.0	0.0
80°	78.6	29.2	9.0	4.5	4.5	3.4	2.2	1.1	0.0	0.0	0.0
82.5°	51.7	13.5	5.6	4.5	3.4	2.2	1.1	0.0	0.0	0.0	0.0
85°	39.3	7.9	3.4	3.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	4.5	3.4	2.2	2.2	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)