

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: P480613

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

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480613
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
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

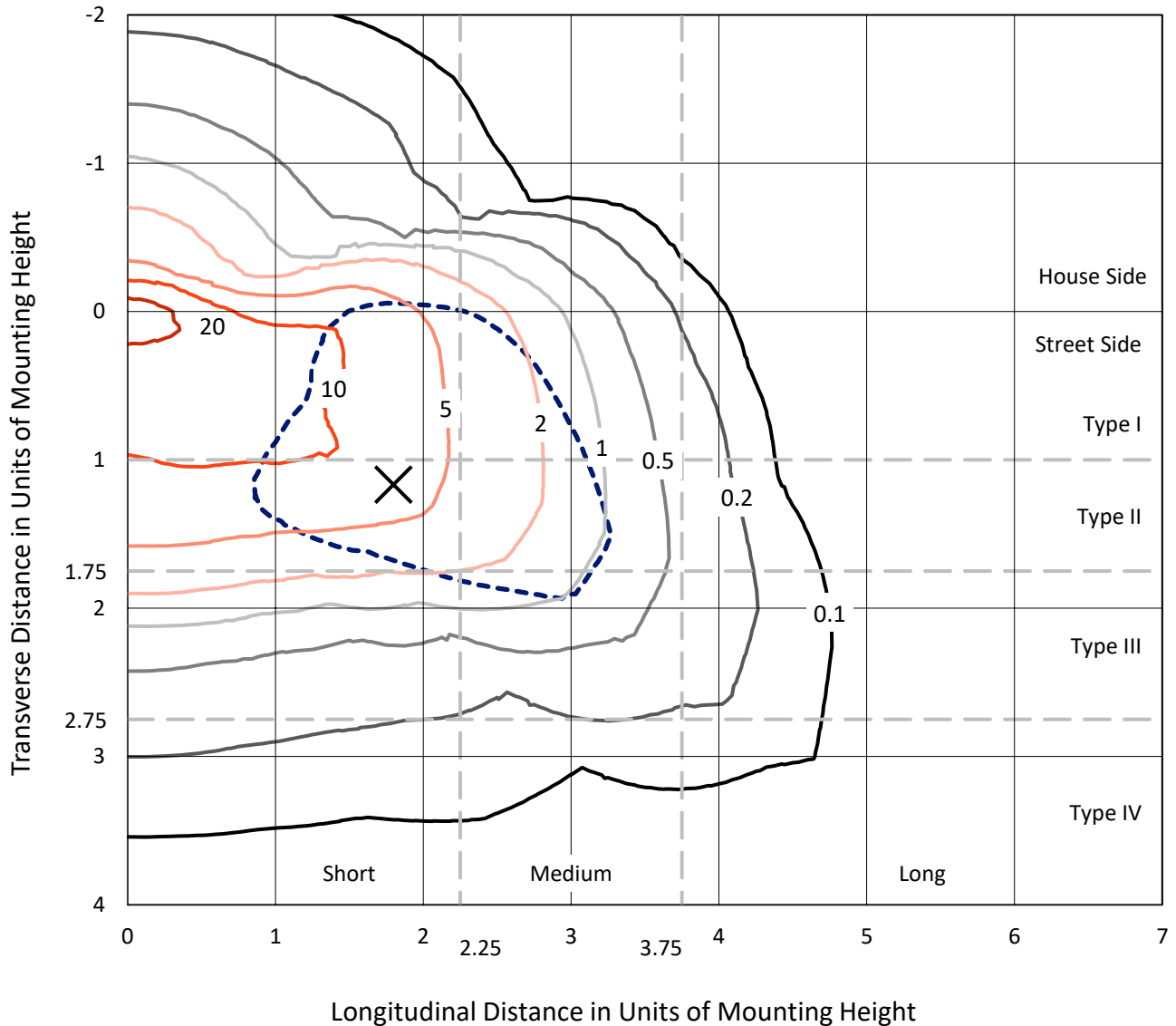
Lumens per Lamp: N/A
Luminaire Lumens: 9979.6 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

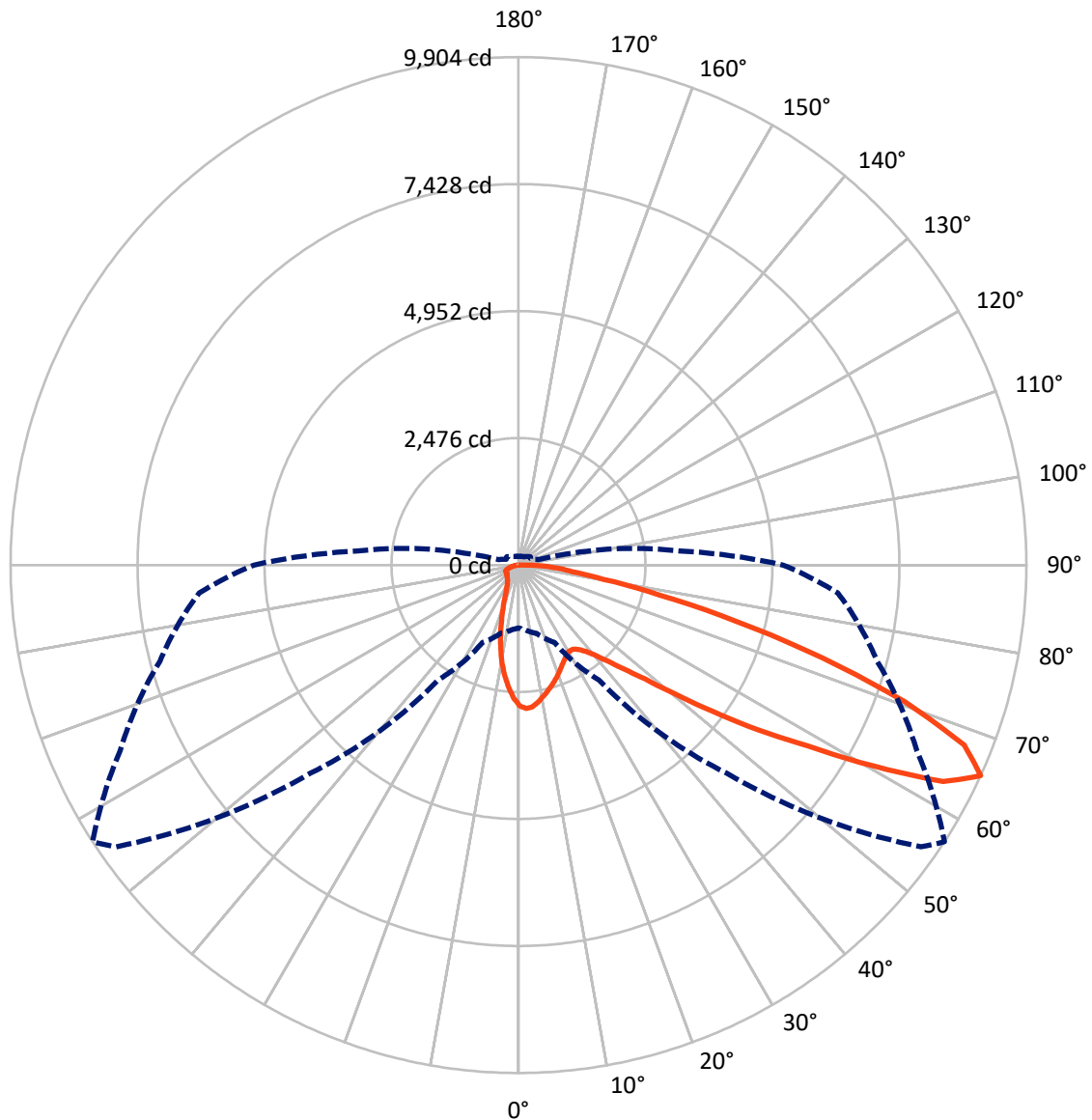
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.4 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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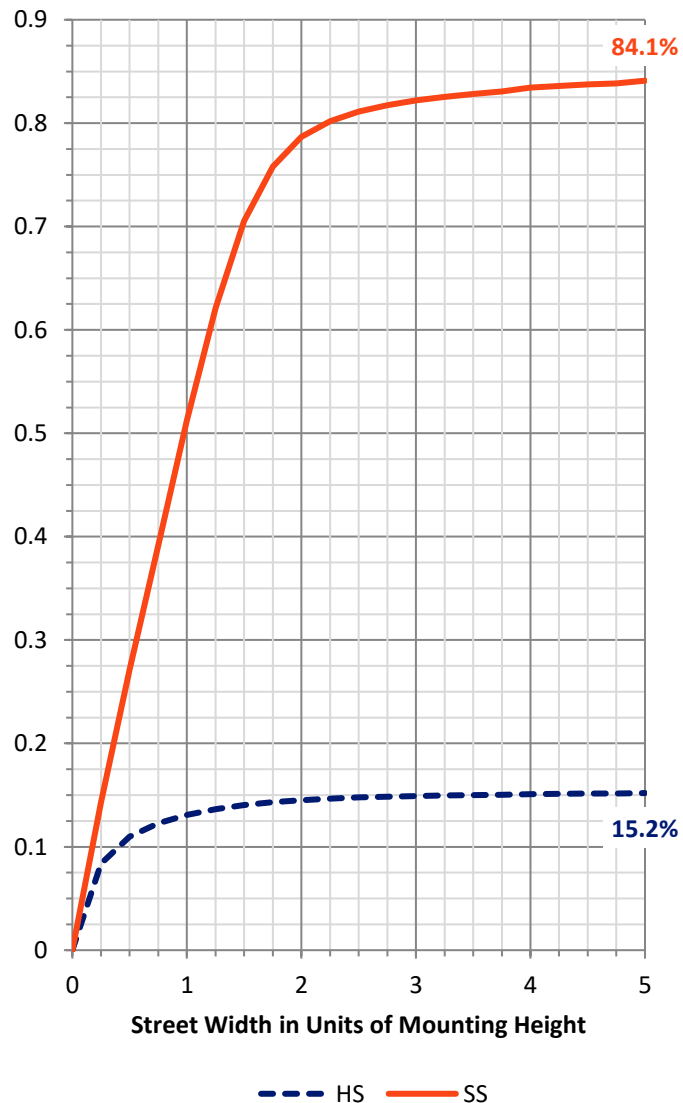
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1530.5	0.0	1530.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8449.2	0.0	8449.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	9979.6	0.0	9979.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	2.3
10°-20°	494.6	5.0
20°-30°	639.5	6.4
30°-40°	860.5	8.6
40°-50°	1372.1	13.7
50°-60°	2423.5	24.3
60°-70°	2666.1	26.7
70°-80°	1115.3	11.2
80°-90°	178.2	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°	9979.6	100.0
0°-180°	9979.6	100.0

Coefficient of Utilization

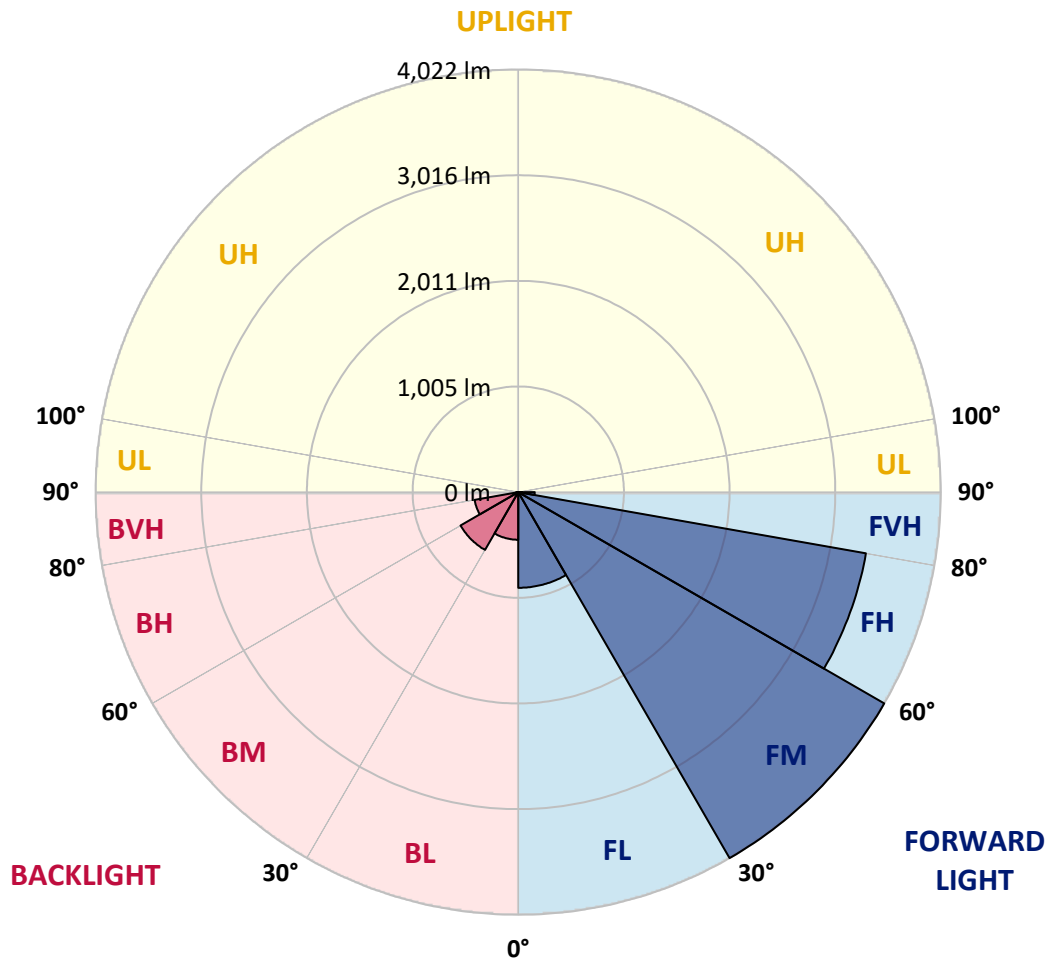


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.6	9.1			
FM (30°-60°)	4021.8	40.3			
FH (60°-80°)	3359.4	33.7			G2/5000
FVH (80°-90°)	157.3	1.6			G2/225
BL (0°-30°)	453.3	4.5	B1/500		
BM (30°-60°)	634.3	6.4	B1/1000		
BH (60°-80°)	422.0	4.2	B1/500		G1/500
BVH (80°-90°)	20.9	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°	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3
2.5°	2818.4	2822.9	2822.9	2831.8	2801.5	2816.1	2813.9	2800.4	2804.9	2781.3	2757.7
5°	2738.6	2735.3	2753.2	2755.5	2779.1	2785.8	2791.4	2782.4	2784.7	2733.0	2710.6
7.5°	2534.3	2533.2	2563.5	2589.3	2638.7	2684.7	2715.1	2706.1	2718.4	2685.9	2633.1
10°	2291.7	2317.6	2349.0	2374.8	2465.8	2524.2	2602.8	2610.6	2657.8	2649.9	2554.5
12.5°	2109.8	2121.1	2144.7	2218.8	2301.9	2398.4	2510.7	2520.8	2566.8	2589.3	2506.2
15°	1960.5	1970.6	2000.9	2055.9	2149.1	2263.7	2406.3	2432.1	2524.2	2532.0	2443.3
17.5°	1851.6	1859.4	1879.7	1934.7	2011.0	2158.1	2292.9	2338.9	2460.2	2498.4	2378.2
20°	1808.9	1792.1	1803.3	1838.1	1914.5	2027.9	2201.9	2242.3	2397.3	2472.5	2316.5
22.5°	1789.8	1775.2	1782.0	1779.7	1840.4	1921.2	2104.2	2146.9	2337.8	2442.2	2261.4
25°	1804.4	1804.4	1797.7	1792.1	1798.8	1851.6	1998.7	2064.9	2258.1	2416.4	2205.3
27.5°	1883.0	1852.7	1856.1	1832.5	1825.8	1825.8	1951.5	1990.8	2232.2	2401.8	2159.3
30°	1933.6	1948.2	1949.3	1914.5	1879.7	1816.8	1907.7	1945.9	2210.9	2419.8	2132.3
32.5°	2062.7	2055.9	2036.9	2030.1	1978.5	1907.7	1929.1	1954.9	2198.6	2460.2	2140.2
35°	2191.8	2188.4	2189.6	2186.2	2132.3	2027.9	1986.3	2021.1	2221.0	2530.9	2167.1
37.5°	2325.4	2334.4	2372.6	2372.6	2315.3	2201.9	2146.9	2136.8	2303.0	2646.6	2231.1
40°	2459.1	2481.5	2529.8	2606.1	2525.3	2419.8	2331.0	2315.3	2401.8	2801.5	2384.9
42.5°	2587.1	2624.1	2719.6	2833.0	2806.0	2700.5	2582.6	2564.6	2605.0	3031.7	2599.4
45°	2751.0	2782.4	2932.9	3106.9	3144.0	3050.8	2912.7	2898.1	2895.8	3368.6	2894.7
47.5°	3000.3	3034.0	3184.4	3359.6	3474.1	3488.7	3333.8	3318.0	3264.1	3823.3	3327.0
50°	3312.4	3367.4	3494.3	3698.7	3864.9	4020.9	3977.2	3931.1	3825.6	4352.2	3875.0
52.5°	3540.4	3607.7	3779.5	4041.2	4334.2	4582.4	4739.6	4739.6	4497.0	4932.7	4534.1
55°	3601.0	3641.4	3858.1	4236.5	4738.5	5366.1	5695.1	5670.4	5296.5	5543.5	5301.0
57.5°	3359.6	3412.4	3675.1	4071.5	4950.7	6099.4	6643.9	6649.6	6170.1	6253.2	6057.8
60°	2694.9	2711.7	3021.6	3551.6	4746.3	6690.0	7939.7	7961.0	7163.8	6885.4	6442.9
62.5°	1862.8	1916.7	2150.3	2615.1	3932.2	6623.7	9189.5	9295.0	7959.9	7218.8	6503.6
65°	1226.2	1258.7	1383.4	1666.3	2737.5	5741.2	9578.0	9903.6	8568.5	7237.9	6249.8
67.5°	889.3	894.9	932.0	1077.9	1645.0	4128.7	8914.4	9373.6	8796.5	7078.5	5654.7
70°	718.6	723.1	736.6	829.8	1062.2	2583.7	7270.5	7990.2	8112.6	6322.8	4554.3
72.5°	583.9	589.5	606.3	693.9	875.8	1437.3	5316.7	6193.7	6599.0	4677.8	3027.2
75°	459.2	463.7	504.2	590.6	823.1	987.0	3526.9	4385.9	4440.9	2734.2	1417.0
77.5°	314.4	322.3	371.7	500.8	774.8	863.5	2198.6	2809.4	2520.8	1070.1	487.3
80°	199.9	211.1	240.3	379.5	684.9	824.2	1367.6	1677.5	1103.8	366.1	234.7
82.5°	117.9	129.1	158.3	245.9	537.8	764.7	963.4	1049.9	517.6	187.5	141.5
85°	65.1	73.0	95.4	148.2	315.5	679.3	771.4	753.4	296.4	99.9	88.7
87.5°	21.3	24.7	34.8	59.5	130.3	320.0	462.6	434.5	153.8	46.0	34.8
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°	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3	2744.3
2.5°	2742.0	2738.6	2688.1	2649.9	2584.8	2530.9	2509.6	2480.4	2479.3	2457.9	2452.3
5°	2675.8	2641.0	2563.5	2489.4	2373.7	2296.2	2225.5	2176.1	2155.9	2112.1	2102.0
7.5°	2590.4	2544.4	2425.4	2286.1	2150.3	2029.0	1919.0	1808.9	1747.2	1725.8	1702.2
10°	2501.7	2420.9	2244.6	2088.5	1898.7	1712.4	1539.4	1384.5	1300.3	1240.8	1214.9
12.5°	2431.0	2323.2	2098.6	1865.1	1614.7	1365.4	1164.4	1001.6	906.1	861.2	841.0
15°	2351.3	2208.7	1939.2	1643.9	1331.7	1048.7	852.2	724.2	686.1	664.7	661.4
17.5°	2267.0	2102.0	1766.3	1426.0	1055.5	789.4	662.5	610.8	594.0	585.0	580.5
20°	2188.4	2006.5	1588.8	1183.5	826.4	633.3	573.8	546.8	545.7	550.2	549.1
22.5°	2077.3	1881.9	1413.7	958.9	660.2	551.3	513.1	506.4	513.1	518.8	521.0
25°	2014.4	1779.7	1218.3	761.3	545.7	489.6	477.2	475.0	485.1	491.8	490.7
27.5°	1949.3	1674.2	1036.4	609.7	478.3	445.8	443.5	445.8	455.9	466.0	464.9
30°	1898.7	1590.0	865.7	509.8	426.7	414.3	412.1	414.3	419.9	421.1	421.1
32.5°	1857.2	1490.0	720.9	442.4	395.2	385.1	387.4	386.3	387.4	388.5	389.6
35°	1832.5	1430.5	601.9	400.9	369.4	361.6	360.4	357.1	358.2	359.3	358.2
37.5°	1885.3	1401.3	507.5	371.7	351.5	344.7	342.5	340.2	336.9	336.9	336.9
40°	1965.0	1385.6	450.3	352.6	338.0	330.1	323.4	321.1	321.1	322.3	323.4
42.5°	2123.3	1411.4	411.0	338.0	321.1	312.2	305.4	306.5	309.9	313.3	311.0
45°	2352.4	1490.0	393.0	326.8	311.0	298.7	294.2	293.1	296.4	302.0	306.5
47.5°	2652.2	1612.4	386.3	316.6	304.3	287.5	281.8	285.2	289.7	297.6	294.2
50°	3142.9	1887.5	391.9	307.7	294.2	281.8	275.1	271.7	275.1	280.7	283.0
52.5°	3784.0	2387.2	413.2	303.2	287.5	277.3	266.1	260.5	263.9	268.4	268.4
55°	4550.9	3069.9	472.7	297.6	276.2	270.6	258.3	247.0	249.3	249.3	248.2
57.5°	5226.9	3585.3	543.5	289.7	269.5	261.6	245.9	232.4	230.2	231.3	232.4
60°	5530.1	3722.3	577.1	287.5	269.5	250.4	229.1	215.6	212.2	210.0	210.0
62.5°	5477.3	3485.3	508.7	277.3	276.2	241.4	213.3	198.7	194.3	189.8	190.9
65°	5158.4	3147.4	400.9	263.9	277.3	235.8	197.6	183.0	175.2	169.6	168.4
67.5°	4575.6	2687.0	317.8	253.8	266.1	225.7	184.1	167.3	160.6	155.0	152.7
70°	3579.7	2106.5	276.2	240.3	239.2	201.0	168.4	153.8	143.7	137.0	137.0
72.5°	2320.9	1331.7	236.9	213.3	206.6	168.4	146.0	137.0	129.1	123.5	123.5
75°	1051.0	618.7	190.9	178.5	168.4	134.7	123.5	119.0	112.3	106.7	106.7
77.5°	377.3	263.9	142.6	140.4	125.8	104.4	99.9	96.6	92.1	86.5	86.5
80°	211.1	167.3	106.7	102.2	87.6	77.5	71.9	71.9	69.6	66.2	65.1
82.5°	133.6	108.9	78.6	68.5	57.3	51.7	49.4	48.3	47.2	42.7	41.5
85°	84.2	74.1	51.7	40.4	33.7	25.8	24.7	23.6	21.3	19.1	19.1
87.5°	38.2	42.7	20.2	12.4	9.0	5.6	3.4	1.1	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)