

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: P480530

Luminaire Tested: **IFLD-S-SA2A-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480530
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

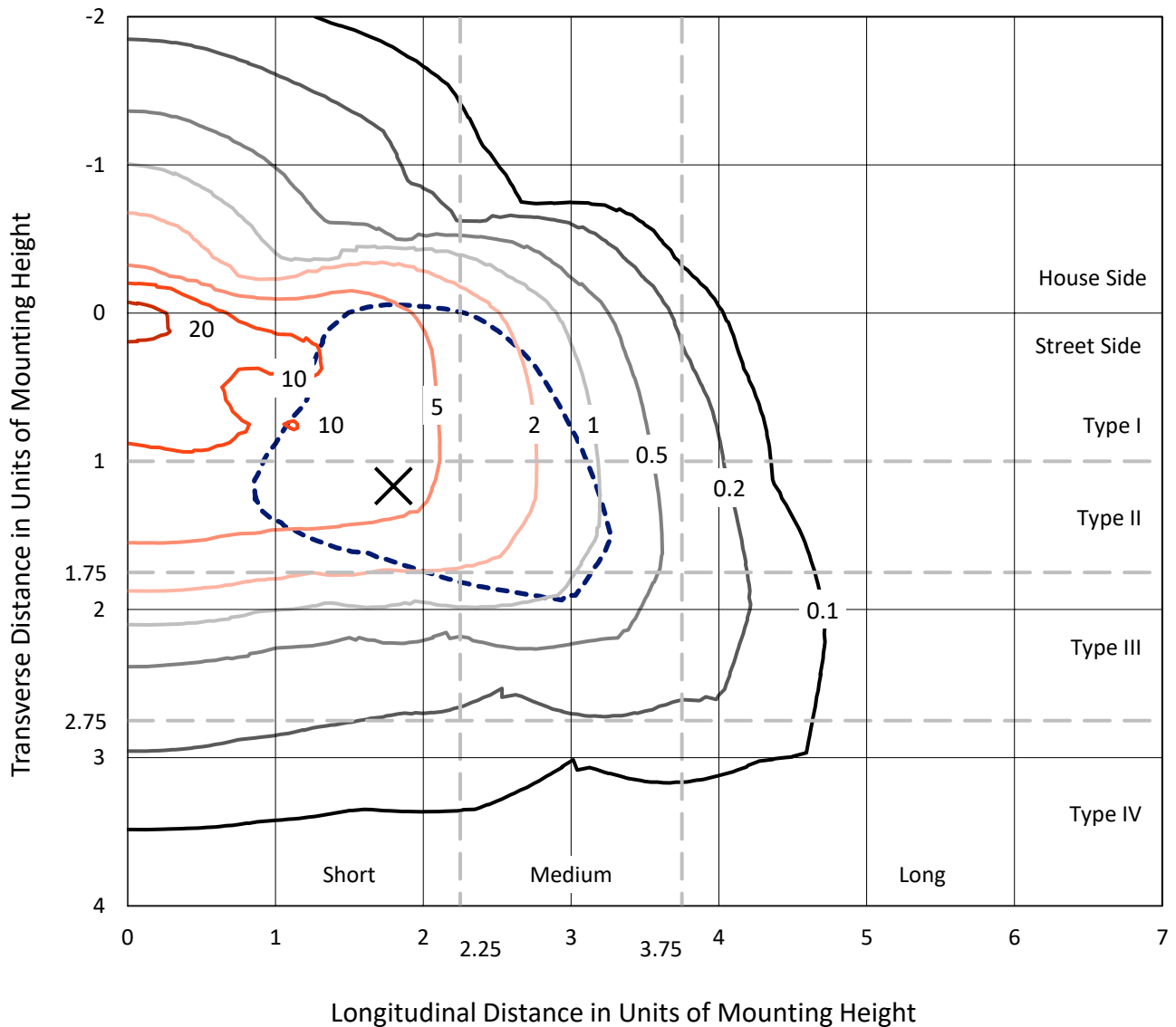
Lumens per Lamp: N/A
Luminaire Lumens: 9318.3 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

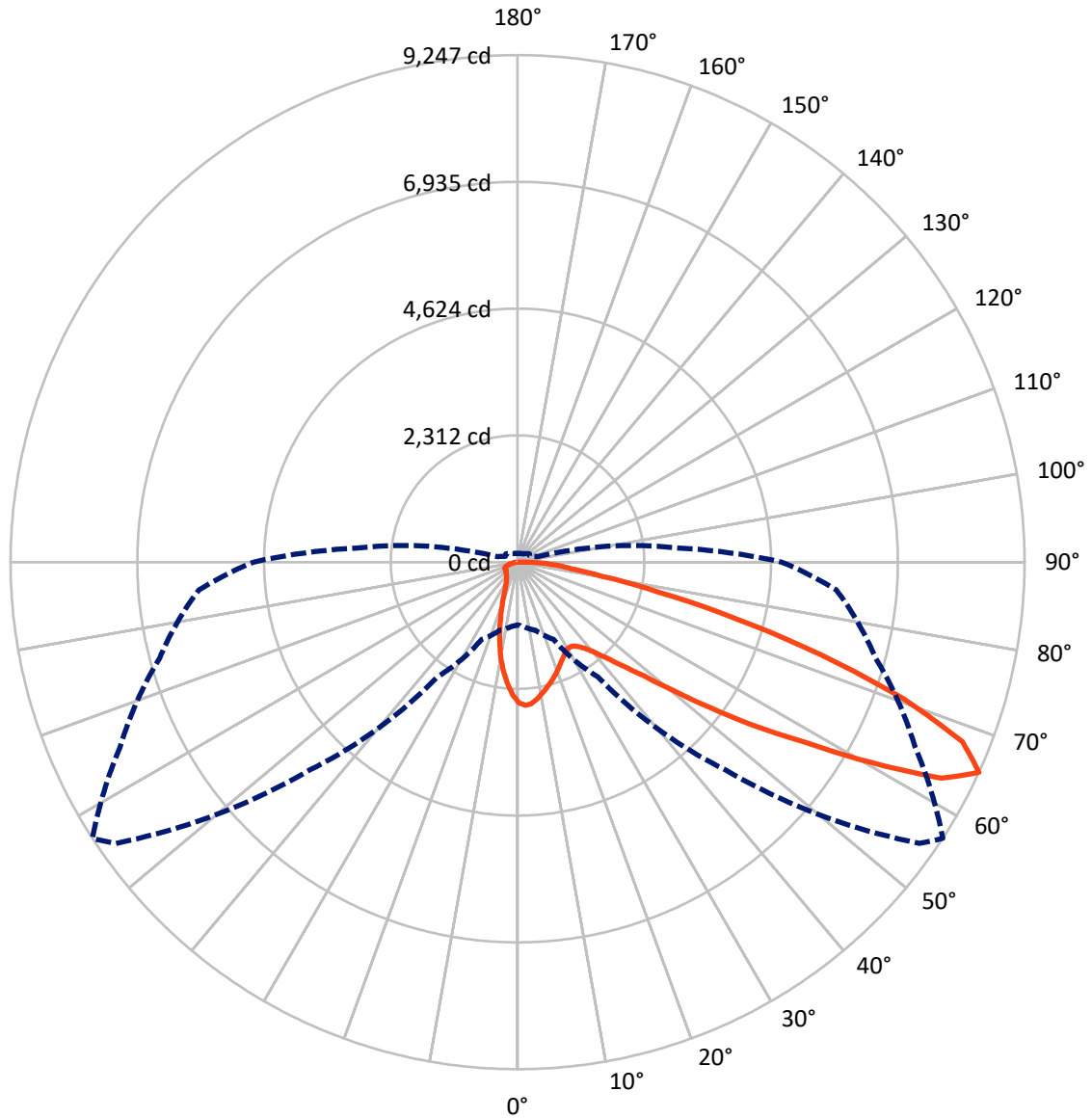
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 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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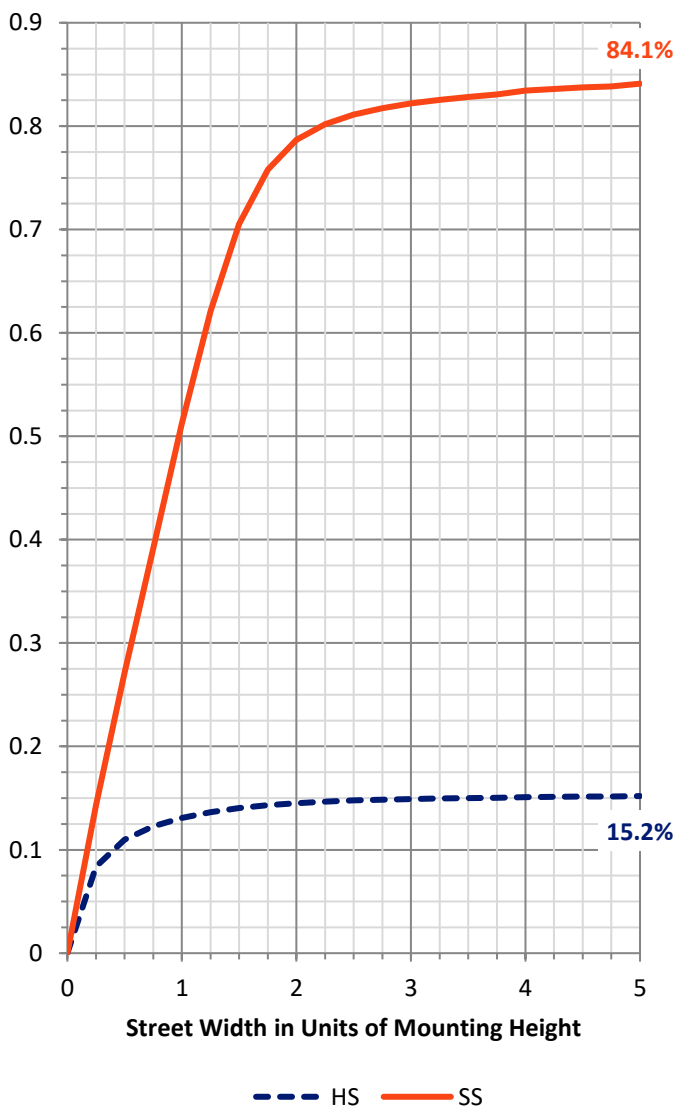
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1429.0	0.0	1429.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7889.2	0.0	7889.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	9318.3	0.0	9318.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	2.3
10°-20°	461.8	5.0
20°-30°	597.1	6.4
30°-40°	803.5	8.6
40°-50°	1281.2	13.7
50°-60°	2262.9	24.3
60°-70°	2489.5	26.7
70°-80°	1041.4	11.2
80°-90°	166.4	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°	9318.3	100.0
0°-180°	9318.3	100.0



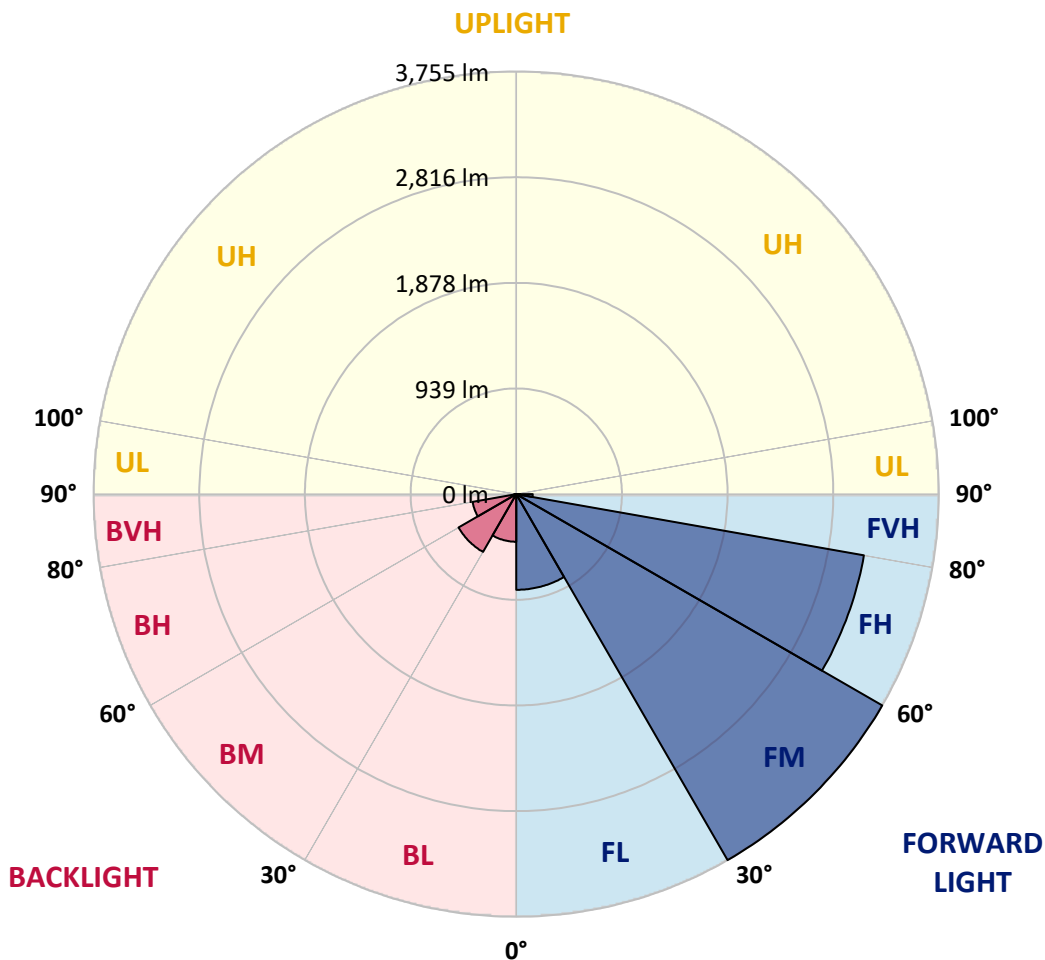
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.3	9.1			
FM (30°-60°)	3755.3	40.3			
FH (60°-80°)	3136.8	33.7			G2/5000
FVH (80°-90°)	146.9	1.6			G2/225
BL (0°-30°)	423.2	4.5	B1/500		
BM (30°-60°)	592.3	6.4	B1/1000		
BH (60°-80°)	394.0	4.2	B1/500		G1/500
BVH (80°-90°)	19.5	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°	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4
2.5°	2631.6	2635.8	2635.8	2644.2	2615.9	2629.5	2627.4	2614.8	2619.0	2597.0	2575.0
5°	2557.2	2554.0	2570.8	2572.9	2594.9	2601.2	2606.4	2598.0	2600.1	2551.9	2530.9
7.5°	2366.3	2365.3	2393.6	2417.7	2463.8	2506.8	2535.1	2526.7	2538.3	2507.9	2458.6
10°	2139.9	2164.0	2193.3	2217.5	2302.4	2356.9	2430.3	2437.6	2481.7	2474.3	2385.2
12.5°	1970.0	1980.5	2002.5	2071.7	2149.3	2239.5	2344.3	2353.8	2396.7	2417.7	2340.1
15°	1830.6	1840.0	1868.3	1919.7	2006.7	2113.7	2246.8	2270.9	2356.9	2364.2	2281.4
17.5°	1728.9	1736.2	1755.1	1806.5	1877.8	2015.1	2140.9	2183.9	2297.1	2332.8	2220.6
20°	1689.0	1673.3	1683.8	1716.3	1787.6	1893.5	2056.0	2093.7	2238.4	2308.7	2162.9
22.5°	1671.2	1657.6	1663.9	1661.8	1718.4	1793.9	1964.8	2004.6	2182.9	2280.4	2111.6
25°	1684.8	1684.8	1678.6	1673.3	1679.6	1728.9	1866.2	1928.1	2108.4	2256.2	2059.1
27.5°	1758.2	1729.9	1733.1	1711.1	1704.8	1704.8	1822.2	1858.9	2084.3	2242.6	2016.2
30°	1805.4	1819.0	1820.1	1787.6	1755.1	1696.4	1781.3	1817.0	2064.4	2259.4	1991.0
32.5°	1926.0	1919.7	1901.9	1895.6	1847.4	1781.3	1801.2	1825.3	2052.9	2297.1	1998.3
35°	2046.6	2043.4	2044.5	2041.3	1991.0	1893.5	1854.7	1887.2	2073.8	2363.2	2023.5
37.5°	2171.3	2179.7	2215.4	2215.4	2161.9	2056.0	2004.6	1995.2	2150.4	2471.2	2083.3
40°	2296.1	2317.1	2362.1	2433.4	2357.9	2259.4	2176.6	2161.9	2242.6	2615.9	2226.9
42.5°	2415.6	2450.2	2539.3	2645.2	2620.1	2521.5	2411.4	2394.6	2432.4	2830.8	2427.1
45°	2568.7	2598.0	2738.5	2901.0	2935.6	2848.6	2719.7	2706.0	2703.9	3145.3	2702.9
47.5°	2801.4	2832.9	2973.4	3136.9	3243.9	3257.5	3112.8	3098.1	3047.8	3569.9	3106.5
50°	3092.9	3144.3	3262.8	3453.6	3608.7	3754.5	3713.6	3670.6	3572.0	4063.8	3618.2
52.5°	3305.7	3368.6	3529.1	3773.3	4047.0	4278.7	4425.5	4425.5	4199.0	4605.8	4233.6
55°	3362.4	3400.1	3602.5	3955.8	4424.4	5010.5	5317.7	5294.6	4945.5	5176.2	4949.7
57.5°	3136.9	3186.2	3431.6	3801.7	4622.6	5695.1	6203.6	6208.9	5761.2	5838.8	5656.4
60°	2516.3	2532.0	2821.4	3316.2	4431.8	6246.6	7413.5	7433.5	6689.1	6429.1	6016.0
62.5°	1739.4	1789.7	2007.8	2441.8	3671.6	6184.8	8580.5	8679.0	7432.4	6740.4	6072.6
65°	1144.9	1175.3	1291.7	1555.9	2556.1	5360.7	8943.2	9247.3	8000.7	6758.3	5835.6
67.5°	830.4	835.6	870.2	1006.5	1536.0	3855.1	8323.6	8752.4	8213.5	6609.4	5280.0
70°	671.0	675.2	687.8	774.8	991.8	2412.5	6788.7	7460.7	7575.0	5903.8	4252.5
72.5°	545.2	550.4	566.2	647.9	817.8	1342.0	4964.4	5783.2	6161.7	4367.8	2826.6
75°	428.8	433.0	470.8	551.5	768.5	921.6	3293.2	4095.2	4146.6	2553.0	1323.1
77.5°	293.6	300.9	347.0	467.6	723.4	806.3	2052.9	2623.2	2353.8	999.2	455.0
80°	186.6	197.1	224.4	354.4	639.6	769.6	1277.0	1566.4	1030.6	341.8	219.1
82.5°	110.1	120.6	147.8	229.6	502.2	714.0	899.6	980.3	483.3	175.1	132.1
85°	60.8	68.1	89.1	138.4	294.6	634.3	720.3	703.5	276.8	93.3	82.8
87.5°	19.9	23.1	32.5	55.6	121.6	298.8	432.0	405.7	143.6	43.0	32.5
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°	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4	2562.4
2.5°	2560.3	2557.2	2510.0	2474.3	2413.5	2363.2	2343.3	2316.0	2315.0	2295.0	2289.8
5°	2498.4	2465.9	2393.6	2324.4	2216.4	2144.1	2078.0	2031.9	2013.0	1972.1	1962.7
7.5°	2418.8	2375.8	2264.6	2134.6	2007.8	1894.5	1791.8	1689.0	1631.4	1611.5	1589.4
10°	2335.9	2260.4	2095.8	1950.1	1772.9	1598.9	1437.4	1292.7	1214.1	1158.5	1134.4
12.5°	2269.9	2169.2	1959.5	1741.5	1507.7	1274.9	1087.2	935.2	846.1	804.2	785.3
15°	2195.4	2062.3	1810.7	1534.9	1243.5	979.2	795.8	676.2	640.6	620.7	617.5
17.5°	2116.8	1962.7	1649.2	1331.5	985.5	737.1	618.6	570.4	554.6	546.2	542.0
20°	2043.4	1873.6	1483.5	1105.1	771.7	591.3	535.8	510.6	509.5	513.7	512.7
22.5°	1939.6	1757.2	1320.0	895.4	616.5	514.8	479.1	472.8	479.1	484.4	486.5
25°	1880.9	1661.8	1137.6	710.8	509.5	457.1	445.6	443.5	452.9	459.2	458.2
27.5°	1820.1	1563.2	967.7	569.3	446.6	416.2	414.1	416.2	425.7	435.1	434.1
30°	1772.9	1484.6	808.3	476.0	398.4	386.9	384.8	386.9	392.1	393.2	393.2
32.5°	1734.1	1391.3	673.1	413.1	369.1	359.6	361.7	360.7	361.7	362.8	363.8
35°	1711.1	1335.7	562.0	374.3	344.9	337.6	336.6	333.4	334.5	335.5	334.5
37.5°	1760.3	1308.5	473.9	347.0	328.2	321.9	319.8	317.7	314.5	314.5	314.5
40°	1834.8	1293.8	420.4	329.2	315.6	308.2	302.0	299.9	299.9	300.9	302.0
42.5°	1982.6	1317.9	383.7	315.6	299.9	291.5	285.2	286.2	289.4	292.5	290.4
45°	2196.5	1391.3	367.0	305.1	290.4	278.9	274.7	273.6	276.8	282.0	286.2
47.5°	2476.4	1505.6	360.7	295.7	284.1	268.4	263.2	266.3	270.5	277.8	274.7
50°	2934.6	1762.4	365.9	287.3	274.7	263.2	256.9	253.7	256.9	262.1	264.2
52.5°	3533.3	2229.0	385.8	283.1	268.4	259.0	248.5	243.2	246.4	250.6	250.6
55°	4249.3	2866.4	441.4	277.8	257.9	252.7	241.1	230.7	232.8	232.8	231.7
57.5°	4880.5	3347.7	507.4	270.5	251.6	244.3	229.6	217.0	214.9	216.0	217.0
60°	5163.6	3475.6	538.9	268.4	251.6	233.8	213.9	201.3	198.2	196.1	196.1
62.5°	5114.3	3254.4	474.9	259.0	257.9	225.4	199.2	185.6	181.4	177.2	178.2
65°	4816.5	2938.8	374.3	246.4	259.0	220.2	184.5	170.9	163.6	158.3	157.3
67.5°	4272.4	2508.9	296.7	236.9	248.5	210.7	171.9	156.2	149.9	144.7	142.6
70°	3342.4	1966.9	257.9	224.4	223.3	187.7	157.3	143.6	134.2	127.9	127.9
72.5°	2167.1	1243.5	221.2	199.2	192.9	157.3	136.3	127.9	120.6	115.3	115.3
75°	981.3	577.7	178.2	166.7	157.3	125.8	115.3	111.1	104.8	99.6	99.6
77.5°	352.3	246.4	133.2	131.1	117.4	97.5	93.3	90.2	86.0	80.7	80.7
80°	197.1	156.2	99.6	95.4	81.8	72.3	67.1	67.1	65.0	61.9	60.8
82.5°	124.8	101.7	73.4	64.0	53.5	48.2	46.1	45.1	44.0	39.8	38.8
85°	78.6	69.2	48.2	37.7	31.5	24.1	23.1	22.0	19.9	17.8	17.8
87.5°	35.6	39.8	18.9	11.5	8.4	5.2	3.1	1.0	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)