

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: P484510

Luminaire Tested: **IFLD-S-SA2C-827-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

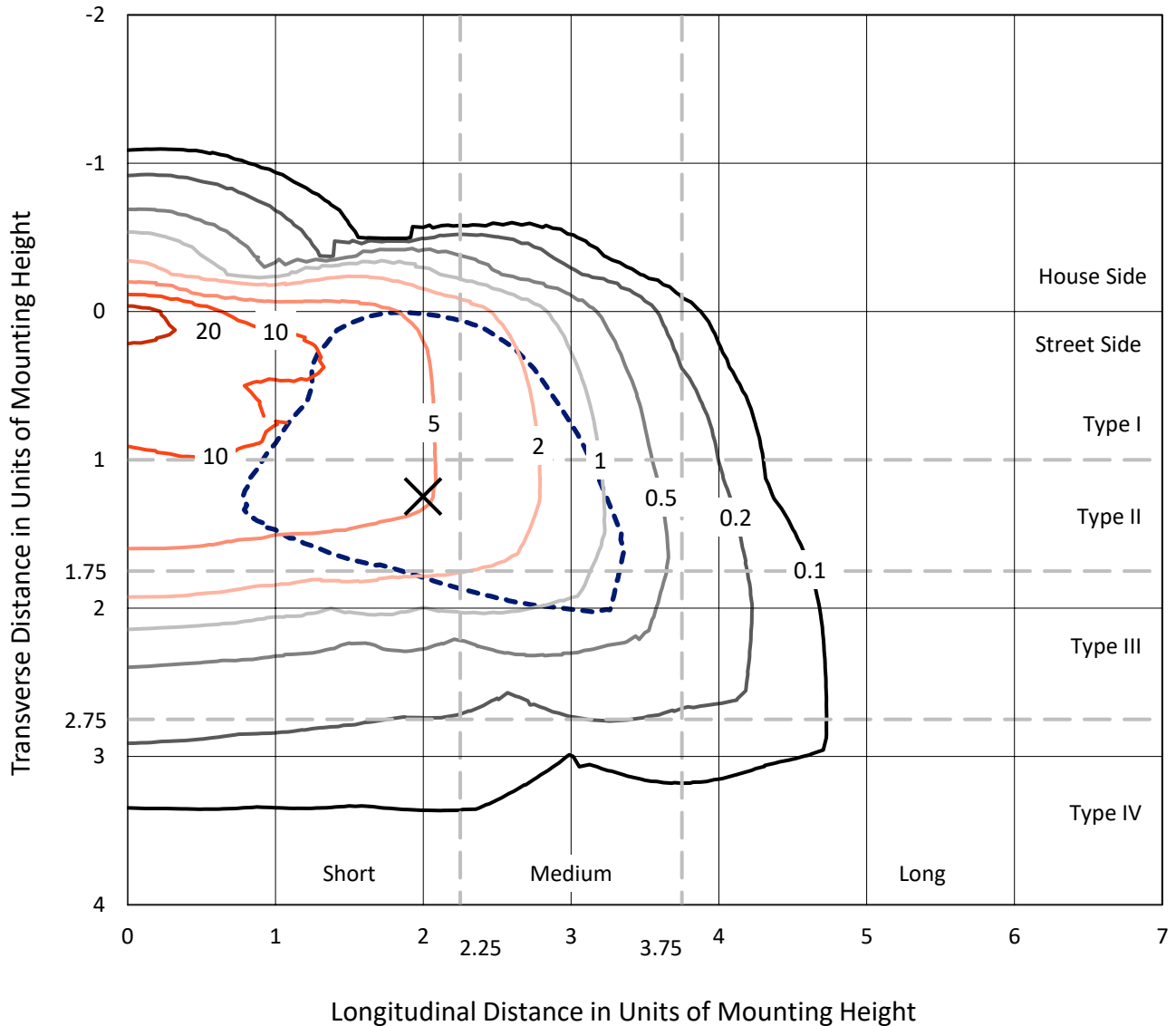
Lumens per Lamp: N/A
Luminaire Lumens: 8737.8 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

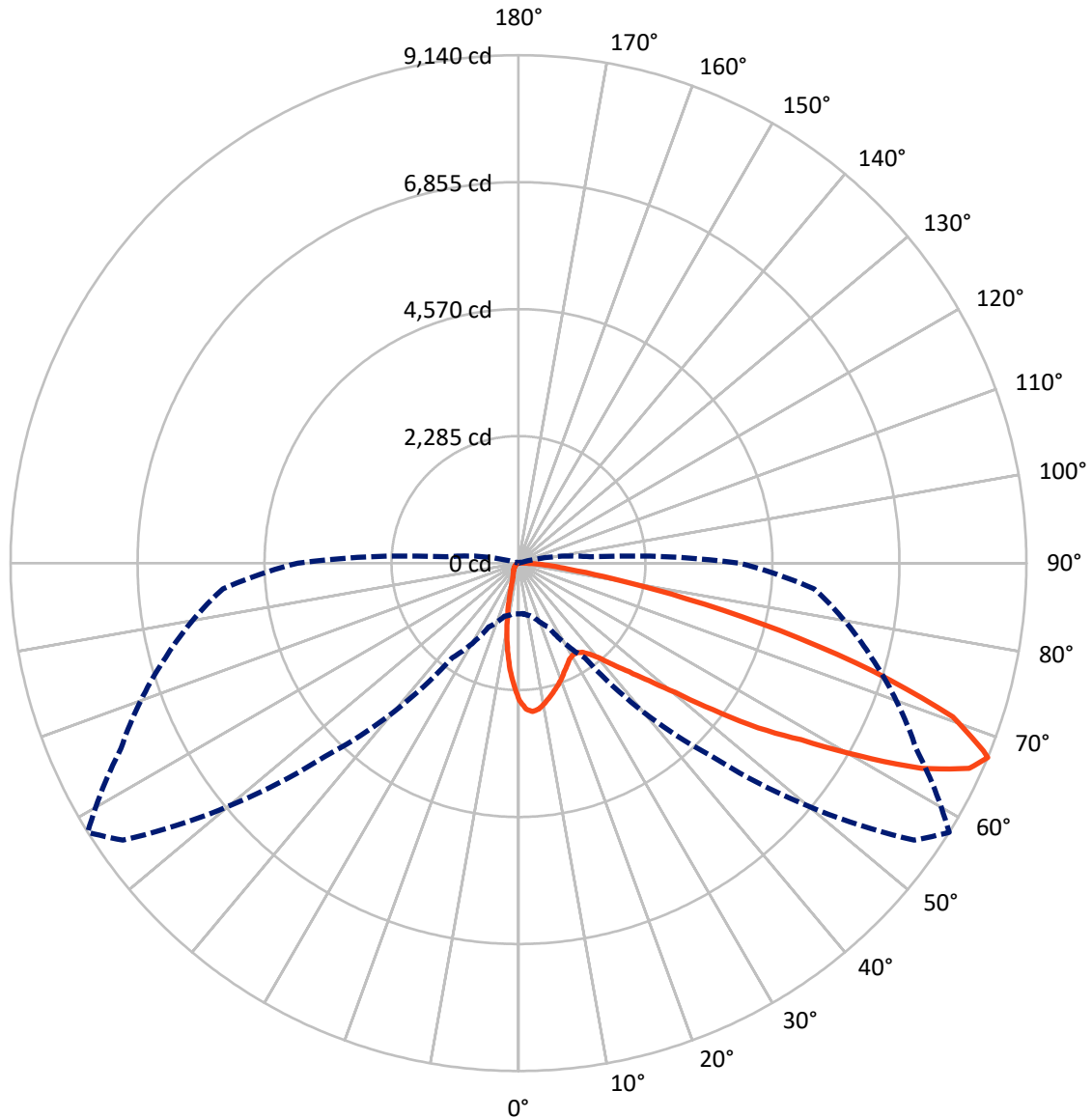
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.8 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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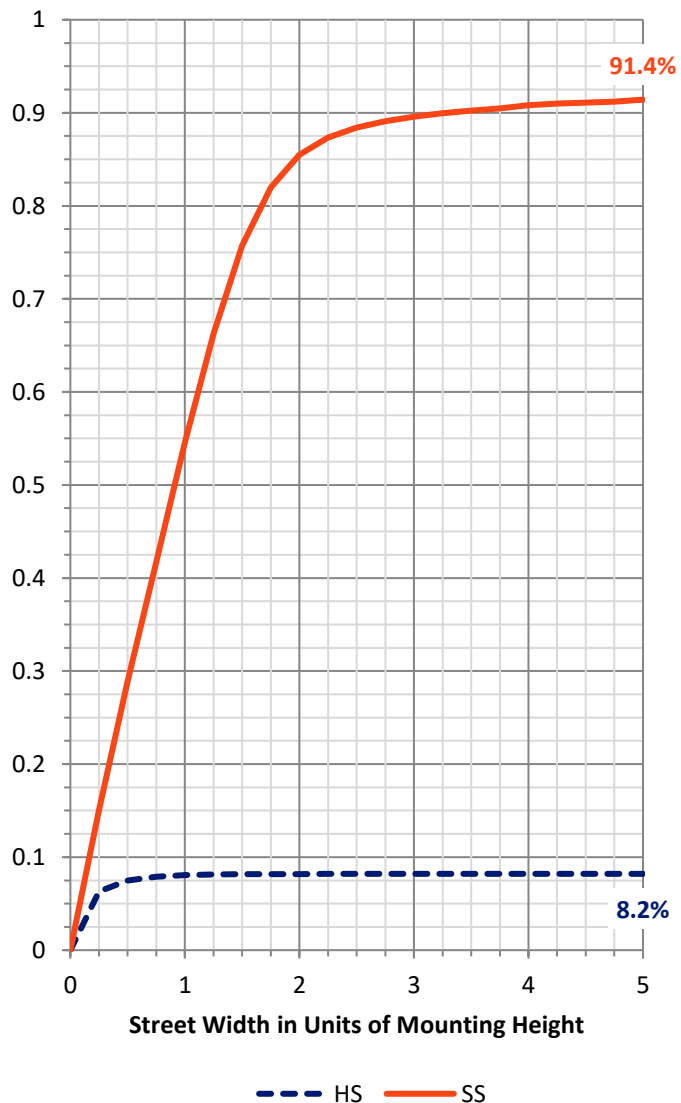
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	722.2	0.0	722.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	8015.6	0.0	8015.6
	% Fixture	91.7	0.0	91.7
Total	Lumens	8737.8	0.0	8737.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	2.2
10°-20°	407.4	4.7
20°-30°	540.6	6.2
30°-40°	749.0	8.6
40°-50°	1222.2	14.0
50°-60°	2148.3	24.6
60°-70°	2379.4	27.2
70°-80°	986.0	11.3
80°-90°	108.5	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°	8737.8	100.0
0°-180°	8737.8	100.0

Coefficient of Utilization



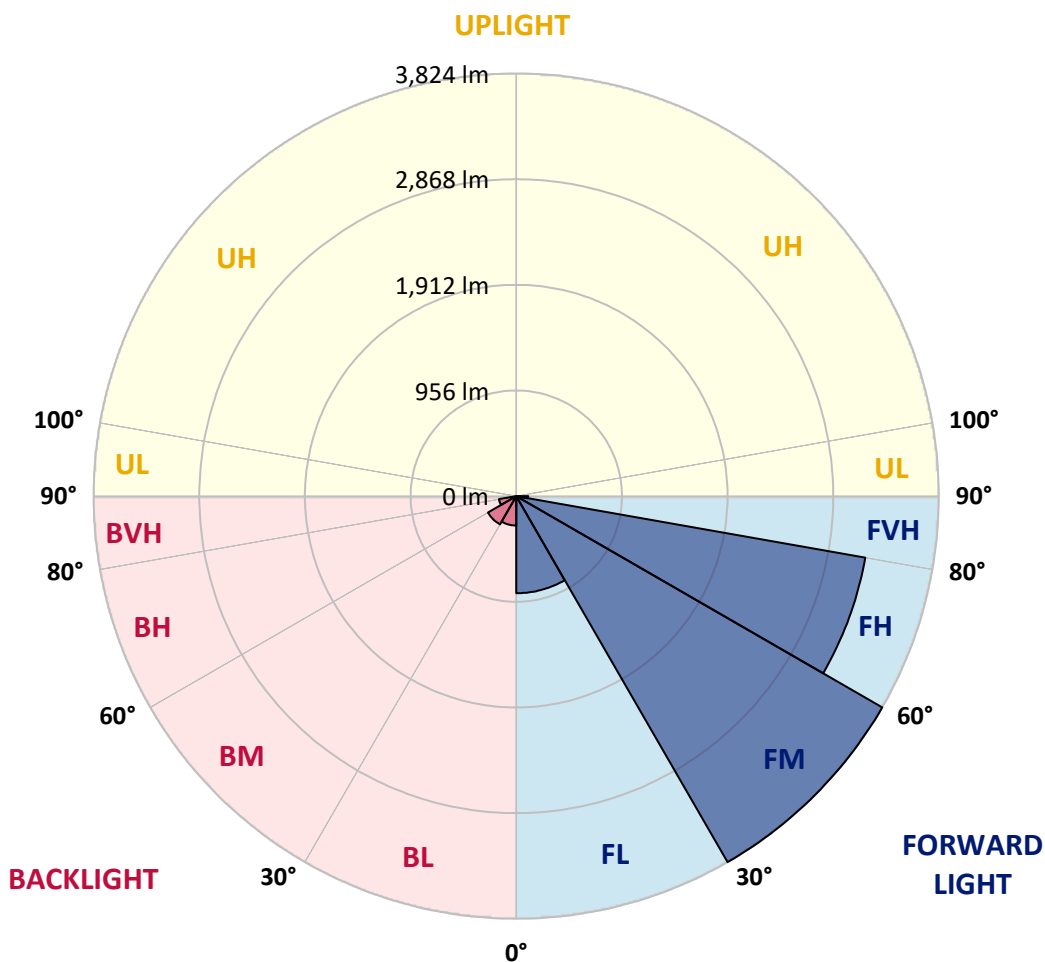
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.4	10.1			
FM (30°-60°)	3823.9	43.8			
FH (60°-80°)	3206.6	36.7			G2/5000
FVH (80°-90°)	106.8	1.2			G2/225
BL (0°-30°)	266.0	3.0	B1/500		
BM (30°-60°)	295.7	3.4	B1/1000		
BH (60°-80°)	158.8	1.8	B1/500		G1/500
BVH (80°-90°)	1.8	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°	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5
2.5°	2693.6	2702.9	2711.0	2696.0	2708.7	2690.2	2642.6	2632.2	2624.0	2553.3	2512.7
5°	2692.5	2682.0	2690.2	2697.1	2679.7	2693.6	2682.0	2683.2	2651.9	2588.1	2474.4
7.5°	2512.7	2508.0	2512.7	2546.3	2584.6	2614.8	2632.2	2649.6	2628.7	2533.6	2423.3
10°	2270.2	2293.4	2306.2	2366.5	2425.7	2481.3	2535.9	2568.4	2562.6	2524.3	2367.7
12.5°	2100.9	2093.9	2140.3	2179.7	2238.9	2351.4	2446.5	2476.7	2511.5	2458.1	2294.6
15°	1944.2	1925.7	1953.5	2022.0	2122.9	2212.2	2345.6	2390.9	2434.9	2448.9	2255.1
17.5°	1794.6	1803.9	1832.9	1894.4	1989.5	2114.8	2240.1	2305.0	2410.6	2392.0	2196.0
20°	1722.7	1742.4	1752.8	1784.2	1850.3	1975.6	2162.3	2214.5	2327.1	2390.9	2138.0
22.5°	1726.2	1726.2	1701.8	1720.4	1780.7	1878.1	2056.8	2114.8	2293.4	2330.5	2085.8
25°	1763.3	1740.1	1741.2	1719.2	1744.7	1798.1	1961.6	2032.4	2225.0	2336.3	2057.9
27.5°	1791.1	1786.5	1779.5	1773.7	1741.2	1749.4	1899.0	1957.0	2198.3	2329.4	2015.0
30°	1892.0	1871.2	1864.2	1851.4	1808.5	1769.1	1849.1	1922.2	2177.4	2345.6	1990.6
32.5°	1976.7	1980.2	1986.0	1948.9	1911.8	1814.3	1863.0	1921.0	2162.3	2382.7	2015.0
35°	2083.5	2098.5	2100.9	2089.3	2049.8	1953.5	1921.0	1970.9	2187.9	2448.9	2017.3
37.5°	2245.9	2229.6	2273.7	2278.3	2250.5	2122.9	2055.6	2075.3	2263.3	2554.4	2105.5
40°	2351.4	2371.1	2453.5	2504.6	2457.0	2341.0	2250.5	2247.0	2372.3	2720.3	2214.5
42.5°	2468.6	2512.7	2603.2	2713.4	2707.6	2599.7	2508.0	2492.9	2566.0	2960.5	2387.4
45°	2628.7	2668.1	2794.6	2960.5	3050.9	2959.3	2821.2	2791.1	2801.5	3287.6	2682.0
47.5°	2894.3	2883.9	3066.0	3229.6	3378.1	3307.3	3248.1	3160.0	3151.9	3672.7	3089.2
50°	3194.8	3192.5	3354.9	3540.5	3712.2	3850.2	3751.6	3655.3	3657.6	4195.9	3568.3
52.5°	3480.2	3525.4	3700.6	3885.0	4179.7	4328.2	4423.3	4385.0	4200.5	4663.4	4081.1
55°	3631.0	3670.4	3844.4	4162.3	4627.4	5009.1	5266.6	5234.2	4878.0	5190.1	4586.8
57.5°	3488.3	3515.0	3750.4	4166.9	4940.7	5792.1	6039.2	5998.6	5578.7	5592.6	5198.2
60°	2890.8	2932.6	3282.9	3771.3	4818.9	6395.4	7103.0	7041.5	6216.7	6101.9	5591.4
62.5°	2002.2	2030.1	2317.8	2925.6	4241.1	6605.3	8107.6	8141.2	6889.5	6498.6	5708.6
65°	1296.9	1294.6	1459.3	1871.2	3005.7	5969.6	8701.5	8910.4	7539.2	6558.9	5672.6
67°	916.4	913.0	990.7	1269.1	2081.1	4918.6	8691.1	9140.0	7891.8	6576.3	5339.7
67.5°	845.7	842.2	916.4	1167.0	1878.1	4574.1	8561.2	9021.7	8016.0	6552.0	5193.5
70°	656.6	647.3	675.1	803.9	1093.9	2958.1	7326.9	8287.4	7758.4	5944.1	4147.2
72.5°	474.5	484.9	529.0	660.1	858.4	1591.6	5584.5	6701.6	6480.0	4480.1	2635.6
75°	330.6	339.9	410.7	538.3	787.7	965.2	3776.0	4860.6	4513.8	2473.2	1122.9
77.5°	172.8	184.4	262.2	430.4	715.8	747.1	2256.3	3082.3	2392.0	880.5	309.7
80°	80.0	85.8	131.1	305.1	598.6	656.6	1315.5	1714.6	957.0	197.2	106.7
82.5°	34.8	38.3	60.3	175.2	424.6	574.2	814.4	899.0	346.9	63.8	66.1
85°	7.0	8.1	23.2	92.8	205.3	348.0	571.9	533.6	174.0	31.3	52.2
87.5°	0.0	0.0	5.8	26.7	55.7	103.2	242.5	242.5	53.4	16.2	19.7
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°	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5	2475.5
2.5°	2476.7	2434.9	2343.3	2258.6	2198.3	2129.9	2039.4	1998.8	1983.7	1962.8	1931.5
5°	2411.7	2360.7	2204.1	2046.3	1873.5	1742.4	1603.2	1522.0	1460.5	1422.2	1409.5
7.5°	2320.1	2215.7	2004.6	1751.7	1527.8	1332.9	1121.8	979.1	887.4	850.3	815.5
10°	2247.0	2111.3	1790.0	1475.6	1177.5	892.1	654.3	529.0	433.9	397.9	393.3
12.5°	2151.9	1989.5	1589.3	1193.7	819.0	531.3	361.9	314.4	287.7	283.1	279.6
15°	2073.0	1879.3	1399.0	924.6	530.1	331.8	281.9	270.3	263.3	261.0	262.2
17.5°	2019.6	1761.0	1204.1	672.8	349.2	271.5	259.9	252.9	249.4	248.3	244.8
20°	1914.1	1661.2	1011.6	471.0	272.6	250.6	241.3	235.5	232.0	230.9	229.7
22.5°	1853.8	1534.7	819.0	328.3	242.5	227.4	220.4	215.8	210.0	206.5	205.3
25°	1793.4	1441.9	647.3	255.2	220.4	210.0	199.5	193.7	184.4	179.8	178.6
27.5°	1722.7	1350.3	498.8	221.6	198.4	187.9	177.5	168.2	156.6	152.0	149.6
30°	1682.1	1261.0	375.9	198.4	182.1	168.2	155.4	143.8	131.1	123.0	120.6
32.5°	1661.2	1179.8	281.9	181.0	164.7	149.6	133.4	119.5	107.9	100.9	99.8
35°	1635.7	1100.9	221.6	164.7	148.5	132.2	116.0	102.1	90.5	84.7	82.4
37.5°	1662.4	1054.5	184.4	152.0	135.7	117.2	99.8	85.8	76.6	70.8	69.6
40°	1735.4	1016.2	160.1	140.4	123.0	103.2	87.0	73.1	65.0	60.3	58.0
42.5°	1848.0	1016.2	145.0	128.8	111.4	90.5	74.2	63.8	55.7	51.0	49.9
45°	2052.1	1047.5	132.2	117.2	97.4	77.7	63.8	53.4	45.2	40.6	39.4
47.5°	2338.7	1119.4	121.8	106.7	87.0	68.4	55.7	45.2	37.1	32.5	31.3
50°	2723.8	1283.0	111.4	94.0	77.7	59.2	46.4	36.0	29.0	24.4	23.2
52.5°	3204.1	1515.0	100.9	87.0	66.1	49.9	37.1	29.0	22.0	18.6	17.4
55°	3712.2	1799.2	88.2	77.7	56.8	41.8	30.2	22.0	16.2	13.9	12.8
57.5°	4223.7	2018.5	77.7	67.3	46.4	33.6	24.4	17.4	11.6	9.3	8.1
60°	4495.2	2039.4	67.3	55.7	37.1	26.7	18.6	12.8	8.1	5.8	4.6
62.5°	4537.0	1853.8	58.0	45.2	30.2	20.9	12.8	9.3	4.6	2.3	2.3
65°	4322.4	1545.2	49.9	36.0	23.2	15.1	9.3	5.8	2.3	1.2	0.0
67°	3974.3	1294.6	42.9	30.2	18.6	11.6	7.0	3.5	1.2	0.0	0.0
67.5°	3839.8	1225.0	40.6	27.8	17.4	10.4	5.8	3.5	1.2	0.0	0.0
70°	2980.2	874.7	30.2	19.7	12.8	8.1	4.6	2.3	0.0	0.0	0.0
72.5°	1825.9	511.6	23.2	13.9	9.3	5.8	3.5	1.2	0.0	0.0	0.0
75°	765.6	176.3	19.7	10.4	7.0	3.5	2.3	1.2	0.0	0.0	0.0
77.5°	199.5	66.1	13.9	7.0	4.6	3.5	2.3	1.2	0.0	0.0	0.0
80°	81.2	30.2	9.3	4.6	4.6	3.5	2.3	1.2	0.0	0.0	0.0
82.5°	53.4	13.9	5.8	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0
85°	40.6	8.1	3.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	4.6	3.5	2.3	2.3	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)