

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: P484552

Luminaire Tested: **IFLD-S-SA3A-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484552
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

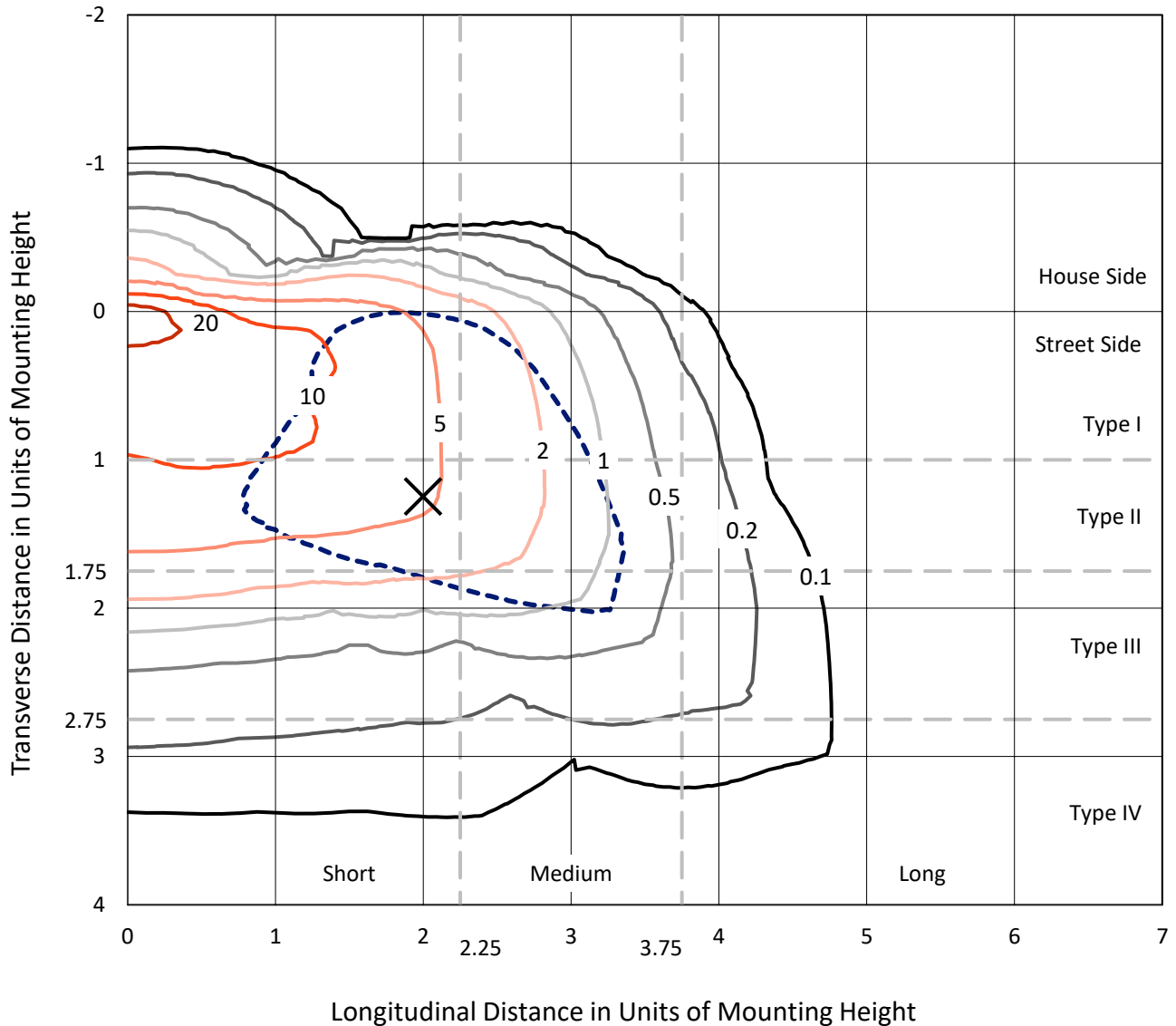
Lumens per Lamp: N/A
Luminaire Lumens: 9142.8 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

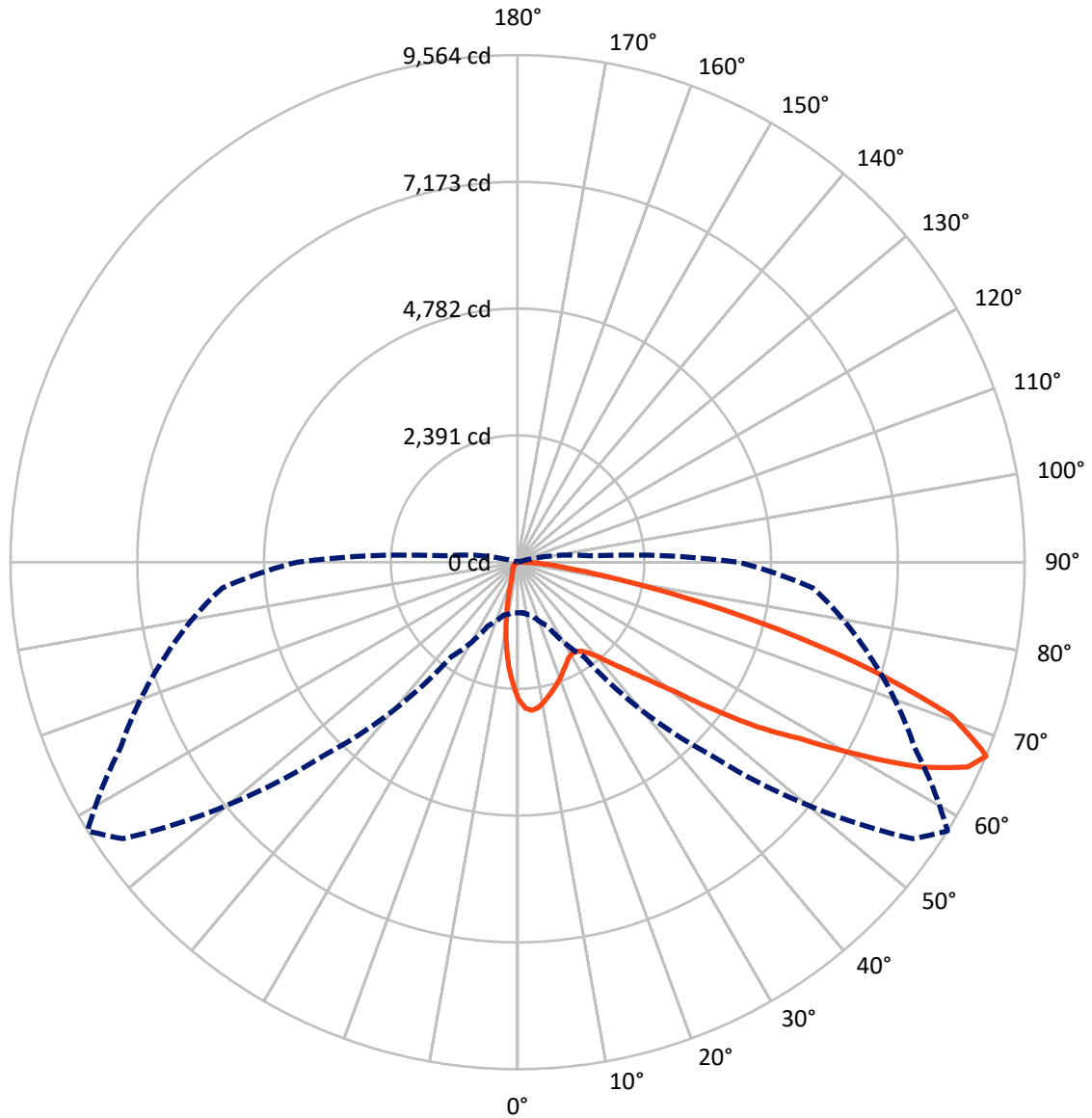
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26 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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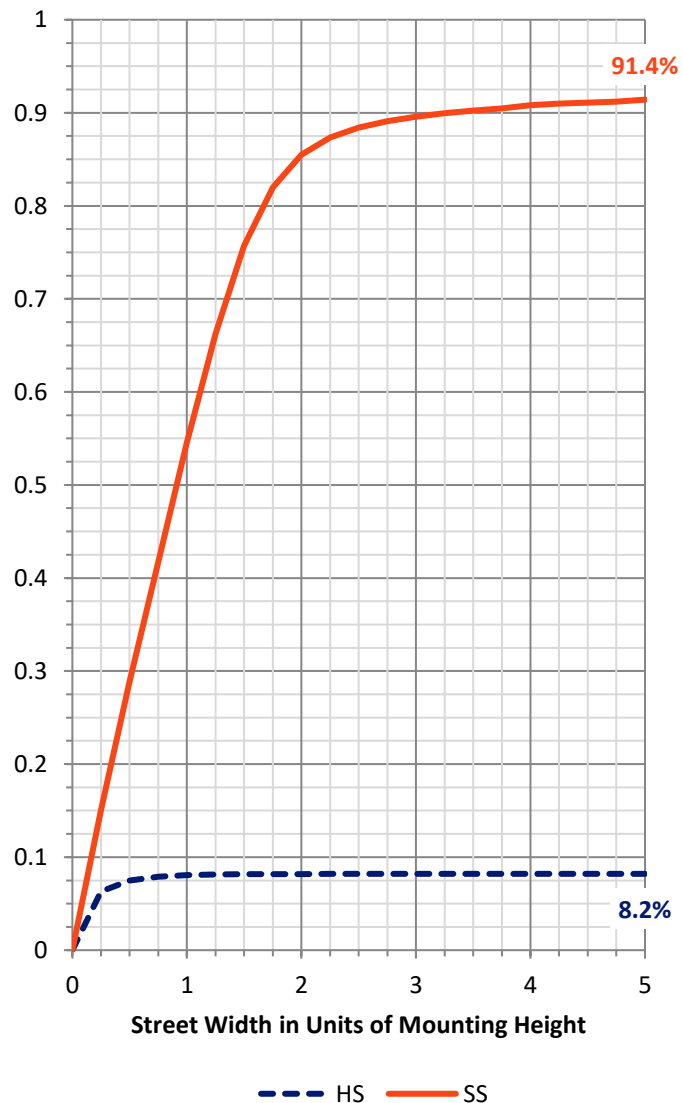
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.7	0.0	755.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	8387.1	0.0	8387.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	9142.8	0.0	9142.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	2.2
10°-20°	426.3	4.7
20°-30°	565.6	6.2
30°-40°	783.8	8.6
40°-50°	1278.9	14.0
50°-60°	2247.8	24.6
60°-70°	2489.7	27.2
70°-80°	1031.7	11.3
80°-90°	113.6	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°	9142.8	100.0
0°-180°	9142.8	100.0

Coefficient of Utilization

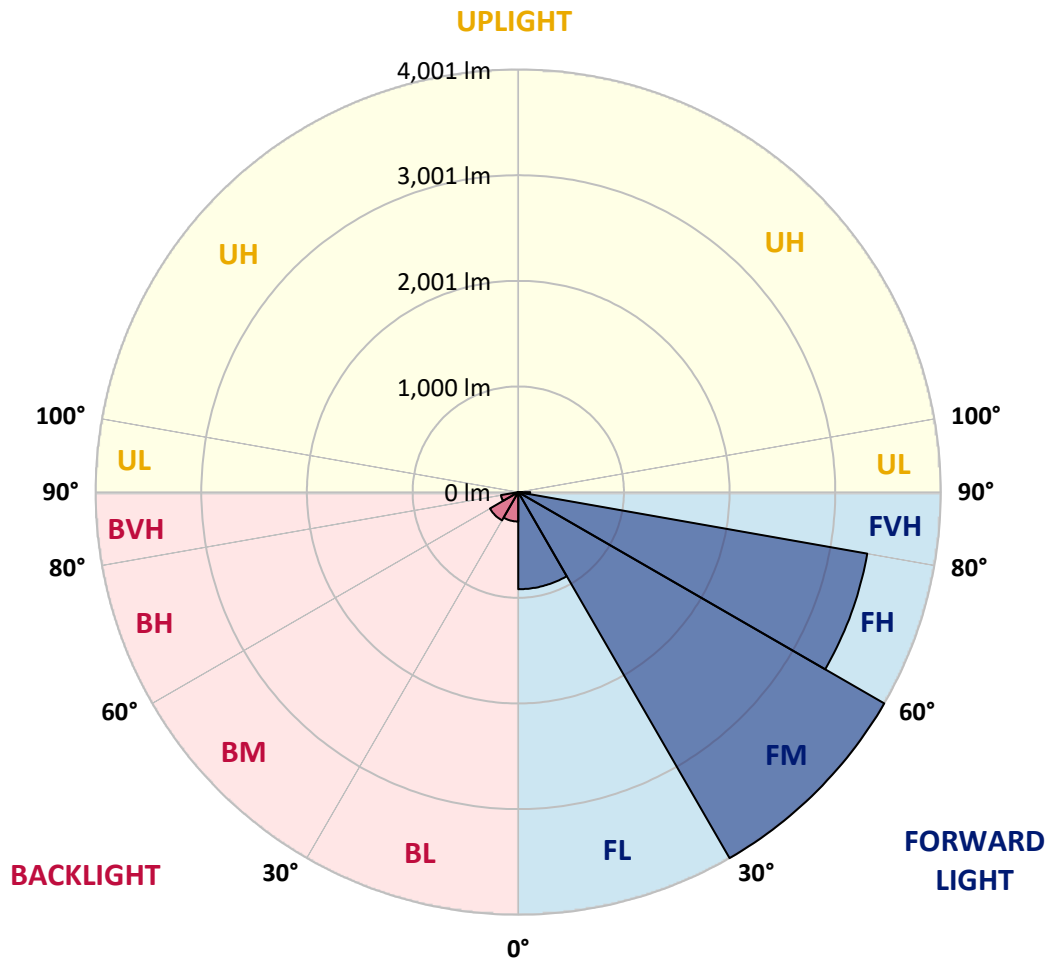


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.1	10.1			
FM (30°-60°)	4001.1	43.8			
FH (60°-80°)	3355.2	36.7			G2/5000
FVH (80°-90°)	111.7	1.2			G2/225
BL (0°-30°)	278.3	3.0	B1/500		
BM (30°-60°)	309.4	3.4	B1/1000		
BH (60°-80°)	166.2	1.8	B1/500		G1/500
BVH (80°-90°)	1.9	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°	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3
2.5°	2818.5	2828.2	2836.7	2820.9	2834.3	2814.8	2765.1	2754.2	2745.7	2671.6	2629.1
5°	2817.3	2806.3	2814.8	2822.1	2803.9	2818.5	2806.3	2807.6	2774.8	2708.0	2589.1
7.5°	2629.1	2624.3	2629.1	2664.3	2704.4	2735.9	2754.2	2772.4	2750.5	2651.0	2535.7
10°	2375.4	2399.7	2413.1	2476.2	2538.1	2596.4	2653.4	2687.4	2681.3	2641.3	2477.4
12.5°	2198.2	2190.9	2239.5	2280.8	2342.7	2460.4	2559.9	2591.5	2627.9	2572.1	2400.9
15°	2034.4	2014.9	2044.1	2115.7	2221.3	2314.7	2454.3	2501.7	2547.8	2562.4	2359.7
17.5°	1877.8	1887.5	1917.8	1982.2	2081.7	2212.8	2343.9	2411.9	2522.3	2502.9	2297.8
20°	1802.5	1823.2	1834.1	1866.9	1936.0	2067.1	2262.6	2317.2	2434.9	2501.7	2237.1
22.5°	1806.2	1806.2	1780.7	1800.1	1863.2	1965.2	2152.1	2212.8	2399.7	2438.6	2182.4
25°	1845.0	1820.7	1821.9	1798.9	1825.6	1881.4	2052.6	2126.6	2328.1	2444.6	2153.3
27.5°	1874.1	1869.3	1862.0	1855.9	1821.9	1830.4	1987.0	2047.7	2300.2	2437.3	2108.4
30°	1979.7	1957.9	1950.6	1937.3	1892.3	1851.1	1934.8	2011.3	2278.3	2454.3	2082.9
32.5°	2068.3	2072.0	2078.1	2039.2	2000.4	1898.4	1949.4	2010.1	2262.6	2493.2	2108.4
35°	2180.0	2195.8	2198.2	2186.1	2144.8	2044.1	2010.1	2062.3	2289.3	2562.4	2110.8
37.5°	2349.9	2333.0	2379.1	2383.9	2354.8	2221.3	2150.9	2171.5	2368.2	2672.8	2203.1
40°	2460.4	2481.0	2567.2	2620.6	2570.9	2449.5	2354.8	2351.2	2482.3	2846.4	2317.2
42.5°	2583.0	2629.1	2723.8	2839.1	2833.0	2720.2	2624.3	2608.5	2685.0	3097.7	2498.0
45°	2750.5	2791.8	2924.1	3097.7	3192.3	3096.4	2952.0	2920.4	2931.4	3440.0	2806.3
47.5°	3028.5	3017.5	3208.1	3379.3	3534.6	3460.6	3398.7	3306.4	3297.9	3842.9	3232.4
50°	3342.9	3340.4	3510.4	3704.6	3884.2	4028.7	3925.5	3824.7	3827.2	4390.4	3733.7
52.5°	3641.5	3688.8	3872.1	4065.1	4373.4	4528.8	4628.3	4588.2	4395.2	4879.5	4270.2
55°	3799.2	3840.5	4022.6	4355.2	4841.9	5241.3	5510.7	5476.7	5104.1	5430.6	4799.4
57.5°	3649.9	3677.9	3924.3	4360.0	5169.6	6060.6	6319.1	6276.6	5837.2	5851.8	5439.1
60°	3024.8	3068.5	3435.1	3946.1	5042.2	6691.8	7432.2	7367.9	6504.8	6384.7	5850.6
62.5°	2095.0	2124.2	2425.2	3061.2	4437.7	6911.5	8483.4	8518.6	7208.9	6799.8	5973.2
65°	1357.0	1354.6	1527.0	1957.9	3145.0	6246.3	9104.8	9323.3	7888.6	6862.9	5935.6
67°	958.9	955.3	1036.6	1327.9	2177.6	5146.6	9093.9	9563.7	8257.6	6881.1	5587.2
67.5°	884.9	881.2	958.9	1221.1	1965.2	4786.1	8958.0	9439.9	8387.5	6855.6	5434.3
70°	687.0	677.3	706.4	841.2	1144.6	3095.2	7666.5	8671.5	8118.0	6219.6	4339.4
72.5°	496.5	507.4	553.5	690.7	898.2	1665.4	5843.3	7012.2	6780.4	4687.8	2757.8
75°	345.9	355.6	429.7	563.2	824.2	1009.9	3951.0	5085.9	4723.0	2587.9	1175.0
77.5°	180.9	193.0	274.3	450.3	748.9	781.7	2360.9	3225.1	2502.9	921.3	324.1
80°	83.8	89.8	137.2	319.2	626.3	687.0	1376.5	1794.0	1001.4	206.3	111.7
82.5°	36.4	40.1	63.1	183.3	444.3	600.8	852.1	940.7	362.9	66.8	69.2
85°	7.3	8.5	24.3	97.1	214.8	364.1	598.4	558.4	182.1	32.8	54.6
87.5°	0.0	0.0	6.1	27.9	58.3	108.0	253.7	253.7	55.8	17.0	20.6
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°	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3	2590.3
2.5°	2591.5	2547.8	2451.9	2363.3	2300.2	2228.6	2133.9	2091.4	2075.6	2053.8	2021.0
5°	2523.5	2470.1	2306.3	2141.2	1960.3	1823.2	1677.5	1592.5	1528.2	1488.1	1474.8
7.5°	2427.6	2318.4	2097.5	1832.9	1598.6	1394.7	1173.8	1024.5	928.6	889.7	853.3
10°	2351.2	2209.1	1872.9	1544.0	1232.0	933.4	684.6	553.5	454.0	416.3	411.5
12.5°	2251.6	2081.7	1662.9	1249.0	857.0	555.9	378.7	328.9	301.0	296.2	292.5
15°	2169.1	1966.4	1463.9	967.4	554.7	347.2	295.0	282.8	275.5	273.1	274.3
17.5°	2113.3	1842.6	1259.9	704.0	365.4	284.0	271.9	264.6	261.0	259.8	256.1
20°	2002.8	1738.2	1058.4	492.8	285.2	262.2	252.5	246.4	242.8	241.5	240.3
22.5°	1939.7	1605.9	857.0	343.5	253.7	237.9	230.6	225.8	219.7	216.1	214.8
25°	1876.6	1508.8	677.3	267.0	230.6	219.7	208.8	202.7	193.0	188.1	186.9
27.5°	1802.5	1412.9	521.9	231.8	207.6	196.6	185.7	176.0	163.9	159.0	156.6
30°	1760.0	1319.4	393.3	207.6	190.6	176.0	162.7	150.5	137.2	128.7	126.2
32.5°	1738.2	1234.5	295.0	189.4	172.4	156.6	139.6	125.0	112.9	105.6	104.4
35°	1711.5	1151.9	231.8	172.4	155.4	138.4	121.4	106.8	94.7	88.6	86.2
37.5°	1739.4	1103.4	193.0	159.0	142.0	122.6	104.4	89.8	80.1	74.0	72.8
40°	1815.9	1063.3	167.5	146.9	128.7	108.0	91.0	76.5	68.0	63.1	60.7
42.5°	1933.6	1063.3	151.7	134.7	116.5	94.7	77.7	66.8	58.3	53.4	52.2
45°	2147.2	1096.1	138.4	122.6	102.0	81.3	66.8	55.8	47.3	42.5	41.3
47.5°	2447.1	1171.3	127.5	111.7	91.0	71.6	58.3	47.3	38.8	34.0	32.8
50°	2850.0	1342.5	116.5	98.3	81.3	61.9	48.6	37.6	30.3	25.5	24.3
52.5°	3352.6	1585.2	105.6	91.0	69.2	52.2	38.8	30.3	23.1	19.4	18.2
55°	3884.2	1882.6	92.3	81.3	59.5	43.7	31.6	23.1	17.0	14.6	13.4
57.5°	4419.5	2112.0	81.3	70.4	48.6	35.2	25.5	18.2	12.1	9.7	8.5
60°	4703.5	2133.9	70.4	58.3	38.8	27.9	19.4	13.4	8.5	6.1	4.9
62.5°	4747.2	1939.7	60.7	47.3	31.6	21.8	13.4	9.7	4.9	2.4	2.4
65°	4522.7	1616.8	52.2	37.6	24.3	15.8	9.7	6.1	2.4	1.2	0.0
67°	4158.5	1354.6	44.9	31.6	19.4	12.1	7.3	3.6	1.2	0.0	0.0
67.5°	4017.7	1281.8	42.5	29.1	18.2	10.9	6.1	3.6	1.2	0.0	0.0
70°	3118.3	915.2	31.6	20.6	13.4	8.5	4.9	2.4	0.0	0.0	0.0
72.5°	1910.5	535.3	24.3	14.6	9.7	6.1	3.6	1.2	0.0	0.0	0.0
75°	801.1	184.5	20.6	10.9	7.3	3.6	2.4	1.2	0.0	0.0	0.0
77.5°	208.8	69.2	14.6	7.3	4.9	3.6	2.4	1.2	0.0	0.0	0.0
80°	85.0	31.6	9.7	4.9	4.9	3.6	2.4	1.2	0.0	0.0	0.0
82.5°	55.8	14.6	6.1	4.9	3.6	2.4	1.2	0.0	0.0	0.0	0.0
85°	42.5	8.5	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	18.2	4.9	3.6	2.4	2.4	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)