

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: P484314

Luminaire Tested: **IFLD-S-SA2B-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484314
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

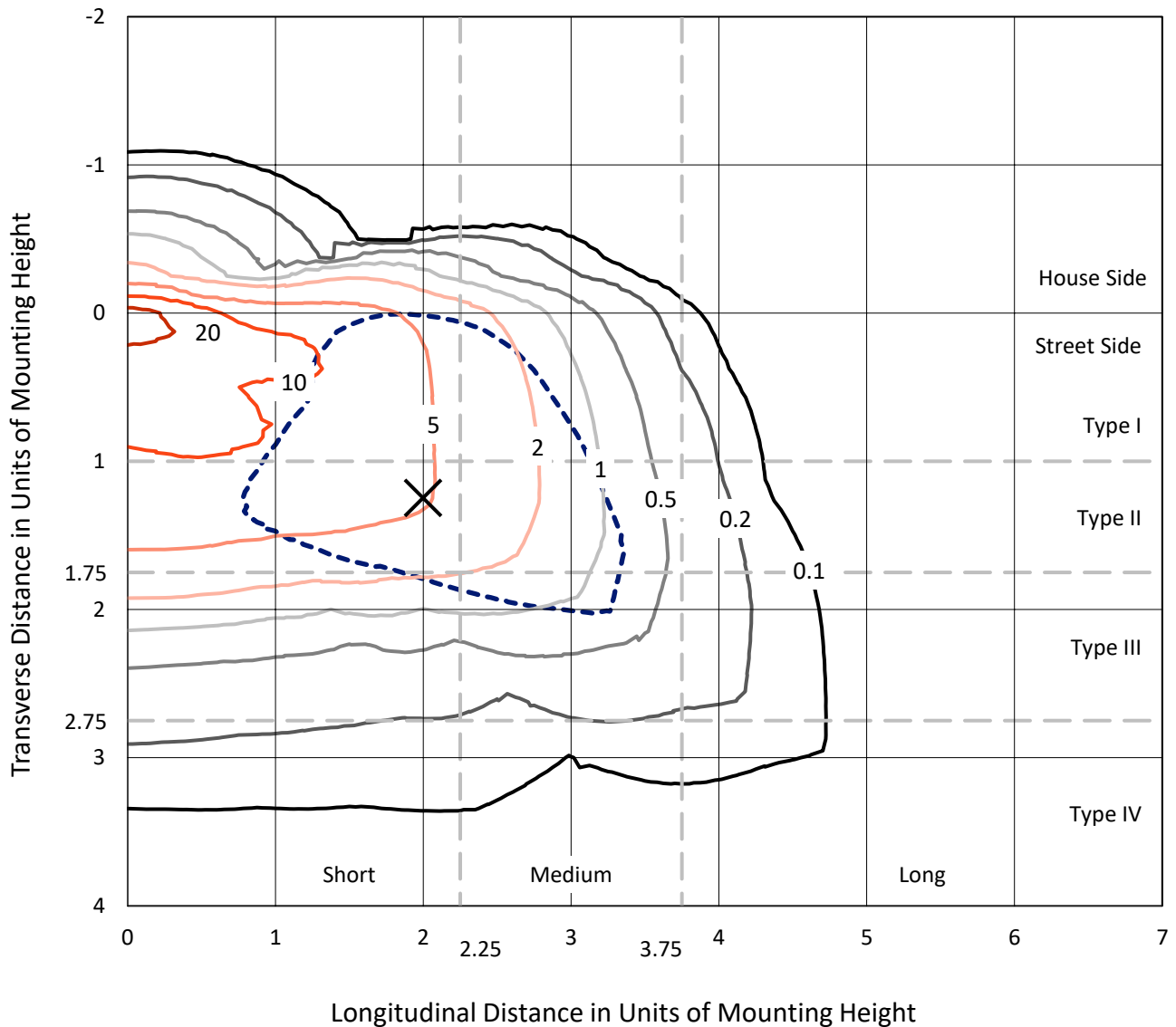
Lumens per Lamp: N/A
Luminaire Lumens: 8695 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

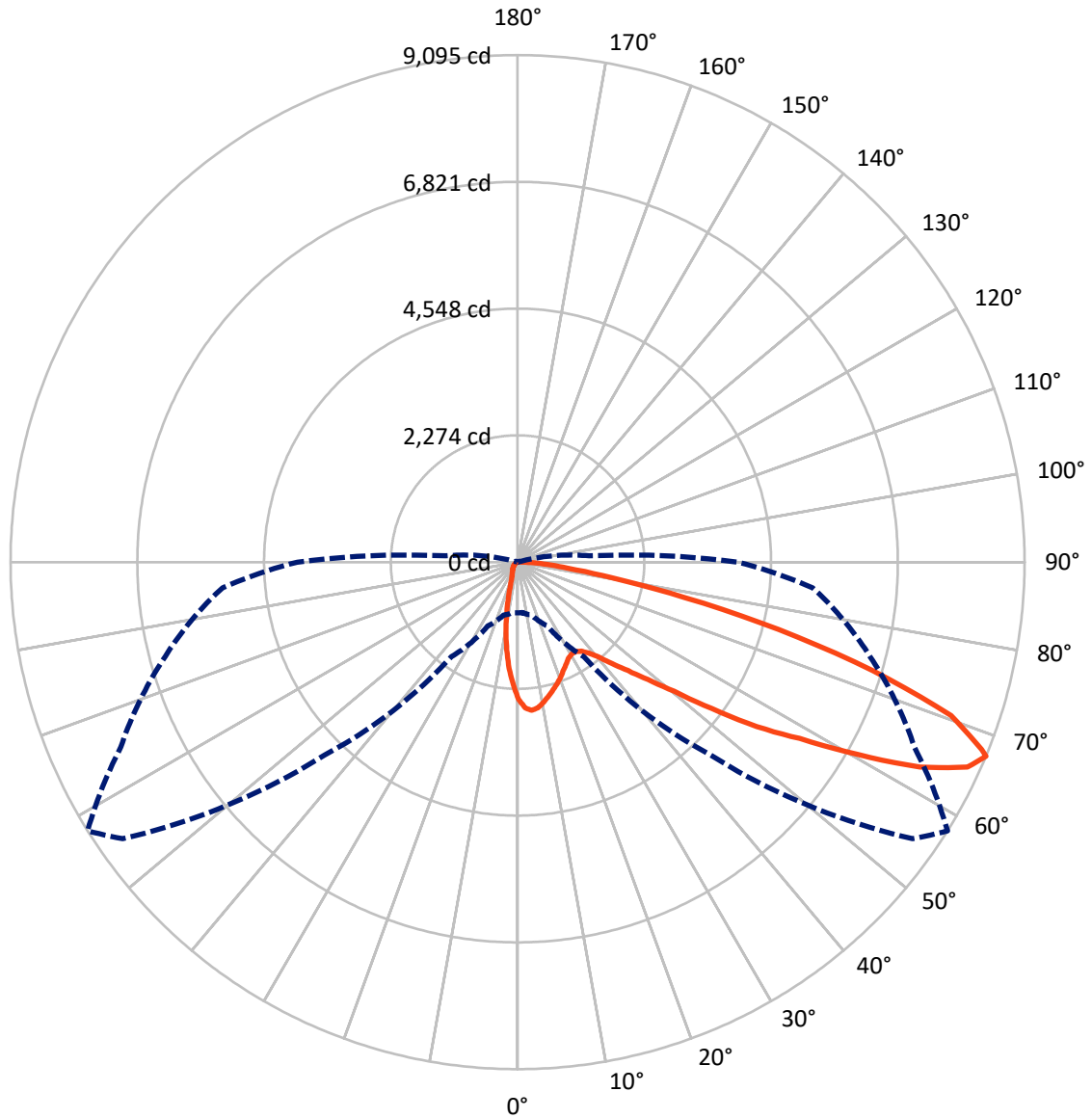
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.7 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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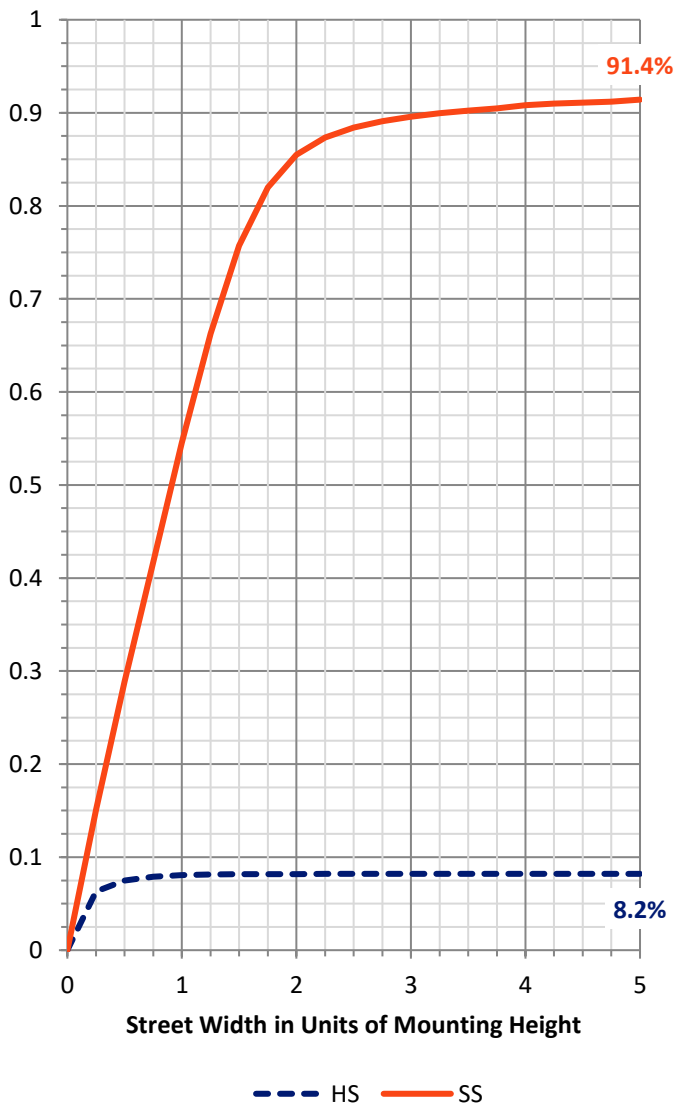
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	718.7	0.0	718.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	7976.3	0.0	7976.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	8695.0	0.0	8695.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	2.2
10°-20°	405.4	4.7
20°-30°	537.9	6.2
30°-40°	745.4	8.6
40°-50°	1216.2	14.0
50°-60°	2137.7	24.6
60°-70°	2367.7	27.2
70°-80°	981.2	11.3
80°-90°	108.0	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°	8695.0	100.0
0°-180°	8695.0	100.0



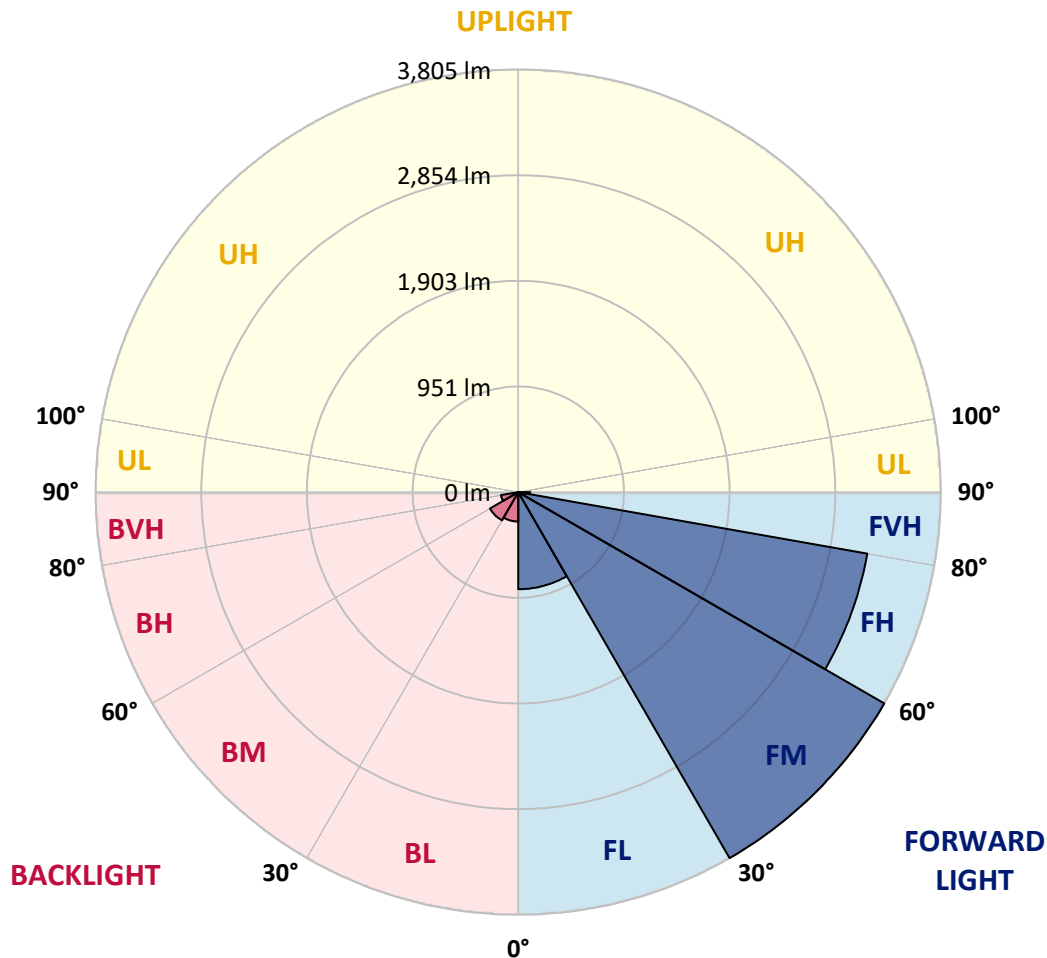
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.1	10.1			
FM (30°-60°)	3805.1	43.8			
FH (60°-80°)	3190.9	36.7			G2/5000
FVH (80°-90°)	106.2	1.2			G2/225
BL (0°-30°)	264.7	3.0	B1/500		
BM (30°-60°)	294.2	3.4	B1/1000		
BH (60°-80°)	158.0	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°	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4
2.5°	2680.4	2689.7	2697.7	2682.7	2695.4	2677.0	2629.6	2619.2	2611.2	2540.7	2500.3
5°	2679.3	2668.9	2677.0	2683.9	2666.6	2680.4	2668.9	2670.0	2638.9	2575.4	2462.3
7.5°	2500.3	2495.7	2500.3	2533.8	2571.9	2601.9	2619.2	2636.6	2615.8	2521.1	2411.5
10°	2259.1	2282.2	2294.9	2354.9	2413.8	2469.2	2523.4	2555.8	2550.0	2511.9	2356.1
12.5°	2090.5	2083.6	2129.8	2169.0	2227.9	2339.9	2434.5	2464.6	2499.2	2446.1	2283.3
15°	1934.7	1916.2	1943.9	2012.1	2112.5	2201.4	2334.1	2379.1	2423.0	2436.9	2244.1
17.5°	1785.8	1795.0	1823.9	1885.1	1979.7	2104.4	2229.1	2293.7	2398.8	2380.3	2185.2
20°	1714.2	1733.9	1744.2	1775.4	1841.2	1965.9	2151.7	2203.7	2315.6	2379.1	2127.5
22.5°	1717.7	1717.7	1693.4	1711.9	1771.9	1868.9	2046.7	2104.4	2282.2	2319.1	2075.5
25°	1754.6	1731.5	1732.7	1710.8	1736.2	1789.3	1952.0	2022.4	2214.1	2324.9	2047.8
27.5°	1782.3	1777.7	1770.8	1765.0	1732.7	1740.8	1889.7	1947.4	2187.5	2318.0	2005.1
30°	1882.8	1862.0	1855.1	1842.4	1799.6	1760.4	1840.1	1912.8	2166.7	2334.1	1980.9
32.5°	1967.0	1970.5	1976.3	1939.3	1902.4	1805.4	1853.9	1911.6	2151.7	2371.1	2005.1
35°	2073.2	2088.2	2090.5	2079.0	2039.8	1943.9	1911.6	1961.3	2177.1	2436.9	2007.4
37.5°	2234.8	2218.7	2262.5	2267.2	2239.5	2112.5	2045.5	2065.2	2252.2	2541.9	2095.2
40°	2339.9	2359.5	2441.5	2492.3	2444.9	2329.5	2239.5	2236.0	2360.7	2707.0	2203.7
42.5°	2456.5	2500.3	2590.4	2700.1	2694.3	2586.9	2495.7	2480.7	2553.4	2945.9	2375.7
45°	2615.8	2655.0	2780.9	2945.9	3036.0	2944.8	2807.4	2777.4	2787.8	3271.5	2668.9
47.5°	2880.1	2869.7	3051.0	3213.7	3361.5	3291.1	3232.2	3144.5	3136.4	3654.7	3074.1
50°	3179.1	3176.8	3338.4	3523.1	3694.0	3831.3	3733.2	3637.4	3639.7	4175.3	3550.8
52.5°	3463.1	3508.1	3682.4	3866.0	4159.2	4306.9	4401.6	4363.5	4179.9	4640.5	4061.0
55°	3613.1	3652.4	3825.6	4141.8	4604.7	4984.5	5240.8	5208.5	4854.1	5164.6	4564.3
57.5°	3471.2	3497.7	3732.0	4146.5	4916.4	5763.7	6009.6	5969.2	5551.3	5565.2	5172.7
60°	2876.7	2918.2	3266.8	3752.8	4795.2	6364.0	7068.2	7007.0	6186.2	6071.9	5564.0
62.5°	1992.4	2020.1	2306.4	2911.3	4220.3	6572.9	8067.8	8101.3	6855.7	6466.7	5680.6
65°	1290.6	1288.3	1452.2	1862.0	2990.9	5940.3	8658.9	8866.6	7502.2	6526.8	5644.8
67°	911.9	908.5	985.8	1262.9	2070.9	4894.5	8648.5	9095.2	7853.1	6544.1	5313.5
67.5°	841.5	838.1	911.9	1161.3	1868.9	4551.6	8519.2	8977.5	7976.6	6519.8	5168.1
70°	653.4	644.1	671.8	800.0	1088.6	2943.6	7290.9	8246.8	7720.4	5914.9	4126.8
72.5°	472.1	482.5	526.4	656.8	854.2	1583.8	5557.1	6668.7	6448.3	4458.1	2622.7
75°	329.0	338.2	408.6	535.6	783.8	960.4	3757.4	4836.8	4491.6	2461.1	1117.4
77.5°	172.0	183.5	260.9	428.3	712.2	743.4	2245.2	3067.1	2380.3	876.2	308.2
80°	79.7	85.4	130.4	303.6	595.7	653.4	1309.0	1706.1	952.3	196.2	106.2
82.5°	34.6	38.1	60.0	174.3	422.5	571.4	810.4	894.6	345.2	63.5	65.8
85°	6.9	8.1	23.1	92.3	204.3	346.3	569.1	531.0	173.2	31.2	51.9
87.5°	0.0	0.0	5.8	26.6	55.4	102.7	241.3	241.3	53.1	16.2	19.6
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°	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4
2.5°	2464.6	2423.0	2331.8	2247.5	2187.5	2119.4	2029.4	1989.0	1974.0	1953.2	1922.0
5°	2399.9	2349.1	2193.3	2036.3	1864.3	1733.9	1595.3	1514.5	1453.3	1415.2	1402.5
7.5°	2308.7	2204.8	1994.7	1743.1	1520.3	1326.4	1116.3	974.3	883.1	846.1	811.5
10°	2236.0	2100.9	1781.2	1468.3	1171.7	887.7	651.1	526.4	431.7	395.9	391.3
12.5°	2141.3	1979.7	1581.5	1187.8	815.0	528.7	360.2	312.8	286.3	281.7	278.2
15°	2062.8	1870.1	1392.2	920.0	527.5	330.1	280.5	269.0	262.0	259.7	260.9
17.5°	2009.7	1752.3	1198.2	669.5	347.5	270.1	258.6	251.7	248.2	247.0	243.6
20°	1904.7	1653.0	1006.6	468.7	271.3	249.3	240.1	234.3	230.9	229.7	228.6
22.5°	1844.7	1527.2	815.0	326.7	241.3	226.3	219.3	214.7	208.9	205.5	204.3
25°	1784.6	1434.9	644.1	254.0	219.3	208.9	198.6	192.8	183.5	178.9	177.8
27.5°	1714.2	1343.7	496.4	220.5	197.4	187.0	176.6	167.4	155.8	151.2	148.9
30°	1673.8	1254.8	374.0	197.4	181.2	167.4	154.7	143.1	130.4	122.4	120.1
32.5°	1653.0	1174.0	280.5	180.1	163.9	148.9	132.8	118.9	107.4	100.4	99.3
35°	1627.6	1095.5	220.5	163.9	147.8	131.6	115.4	101.6	90.0	84.3	82.0
37.5°	1654.2	1049.3	183.5	151.2	135.1	116.6	99.3	85.4	76.2	70.4	69.3
40°	1726.9	1011.2	159.3	139.7	122.4	102.7	86.6	72.7	64.6	60.0	57.7
42.5°	1838.9	1011.2	144.3	128.1	110.8	90.0	73.9	63.5	55.4	50.8	49.6
45°	2042.1	1042.4	131.6	116.6	97.0	77.3	63.5	53.1	45.0	40.4	39.2
47.5°	2327.2	1114.0	121.2	106.2	86.6	68.1	55.4	45.0	36.9	32.3	31.2
50°	2710.4	1276.7	110.8	93.5	77.3	58.9	46.2	35.8	28.9	24.2	23.1
52.5°	3188.3	1507.6	100.4	86.6	65.8	49.6	36.9	28.9	21.9	18.5	17.3
55°	3694.0	1790.4	87.7	77.3	56.6	41.6	30.0	21.9	16.2	13.9	12.7
57.5°	4203.0	2008.6	77.3	67.0	46.2	33.5	24.2	17.3	11.5	9.2	8.1
60°	4473.1	2029.4	67.0	55.4	36.9	26.6	18.5	12.7	8.1	5.8	4.6
62.5°	4514.7	1844.7	57.7	45.0	30.0	20.8	12.7	9.2	4.6	2.3	2.3
65°	4301.1	1537.6	49.6	35.8	23.1	15.0	9.2	5.8	2.3	1.2	0.0
67°	3954.8	1288.3	42.7	30.0	18.5	11.5	6.9	3.5	1.2	0.0	0.0
67.5°	3820.9	1219.0	40.4	27.7	17.3	10.4	5.8	3.5	1.2	0.0	0.0
70°	2965.6	870.4	30.0	19.6	12.7	8.1	4.6	2.3	0.0	0.0	0.0
72.5°	1817.0	509.1	23.1	13.9	9.2	5.8	3.5	1.2	0.0	0.0	0.0
75°	761.9	175.5	19.6	10.4	6.9	3.5	2.3	1.2	0.0	0.0	0.0
77.5°	198.6	65.8	13.9	6.9	4.6	3.5	2.3	1.2	0.0	0.0	0.0
80°	80.8	30.0	9.2	4.6	4.6	3.5	2.3	1.2	0.0	0.0	0.0
82.5°	53.1	13.9	5.8	4.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0
85°	40.4	8.1	3.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	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)