

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: P481706

Luminaire Tested: **IFLD-S-SA3B-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481706
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

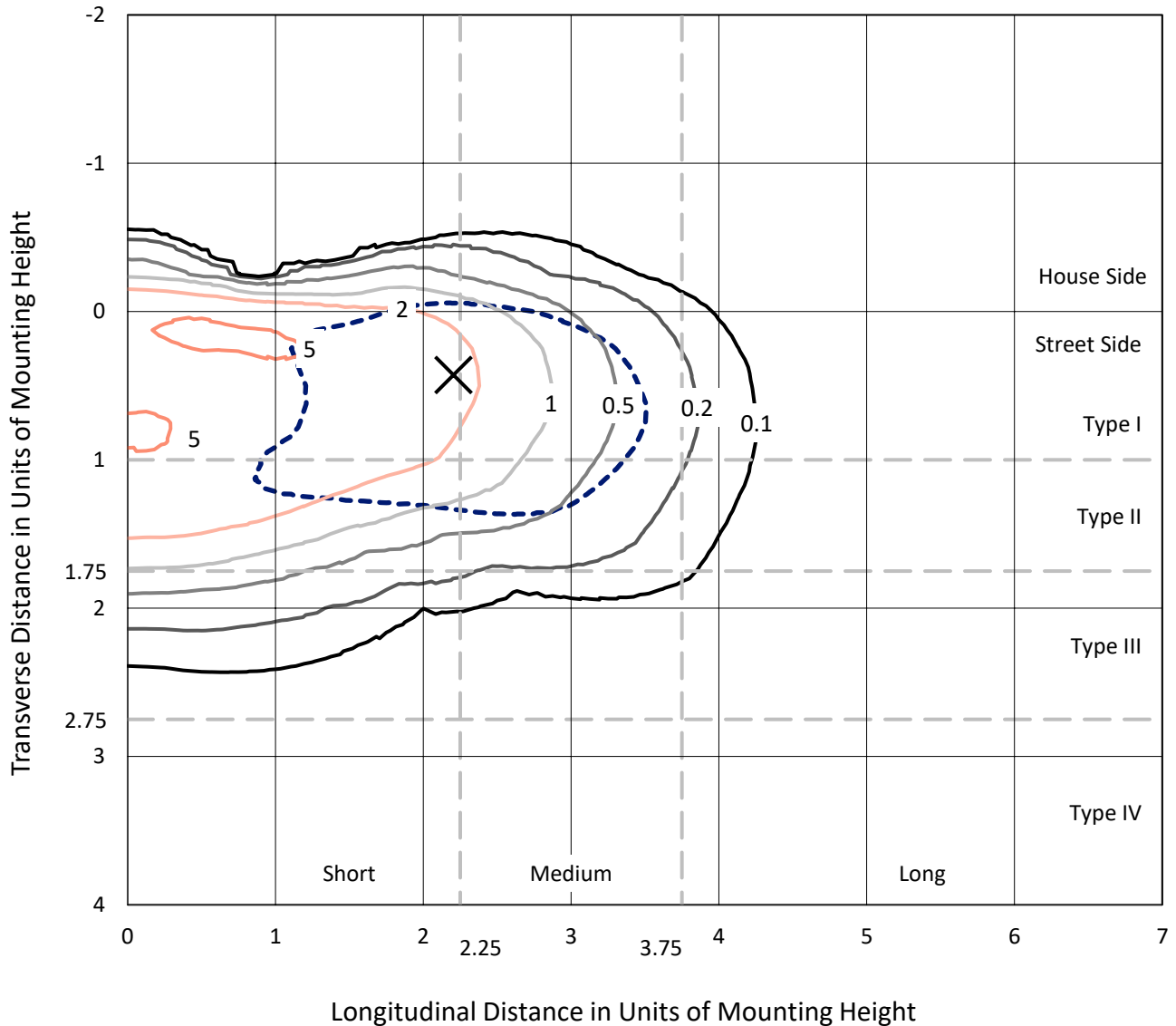
Lumens per Lamp: N/A
Luminaire Lumens: 12534.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

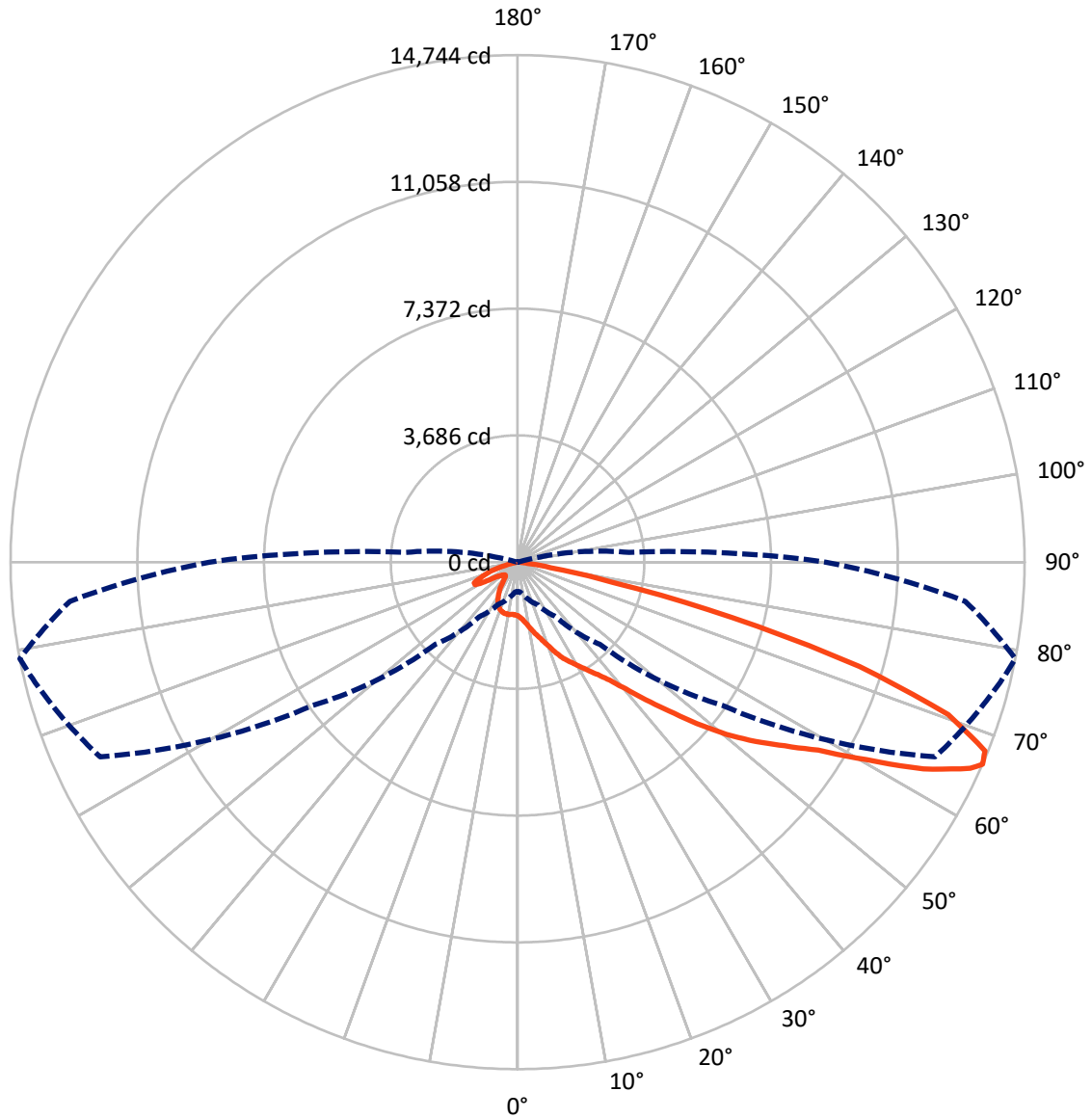
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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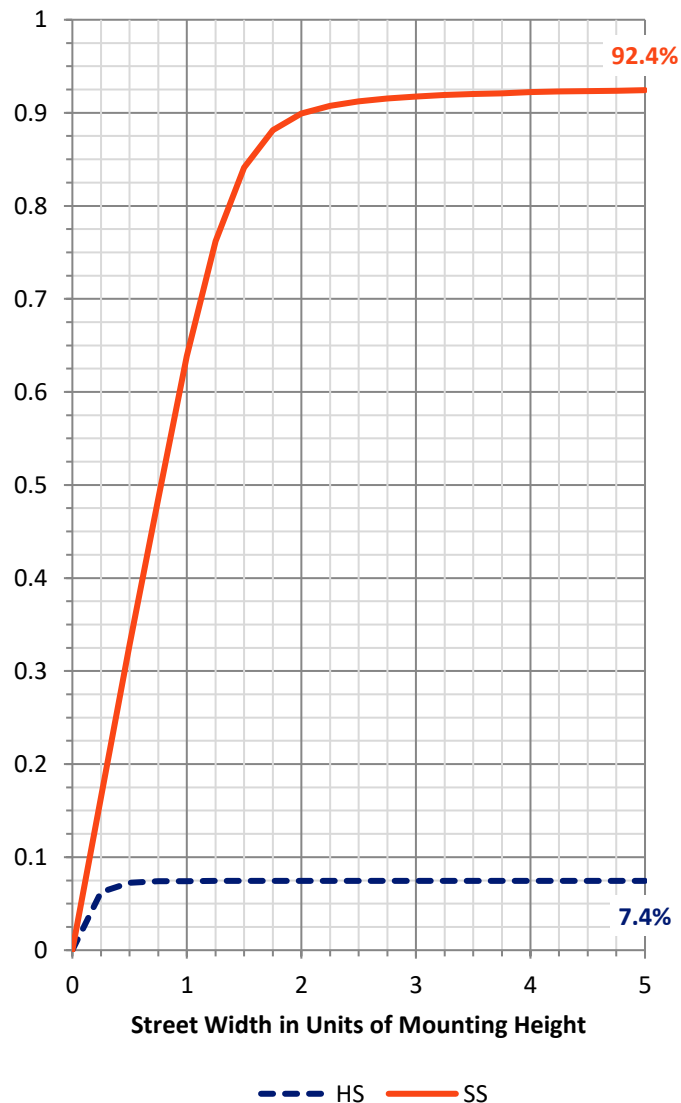
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.2	0.0	941.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11593.2	0.0	11593.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	12534.4	0.0	12534.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	1.2
10°-20°	405.9	3.2
20°-30°	674.3	5.4
30°-40°	1158.1	9.2
40°-50°	2098.1	16.7
50°-60°	3316.5	26.5
60°-70°	3374.8	26.9
70°-80°	1287.0	10.3
80°-90°	72.2	0.6
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°	12534.4	100.0
0°-180°	12534.4	100.0

Coefficient of Utilization

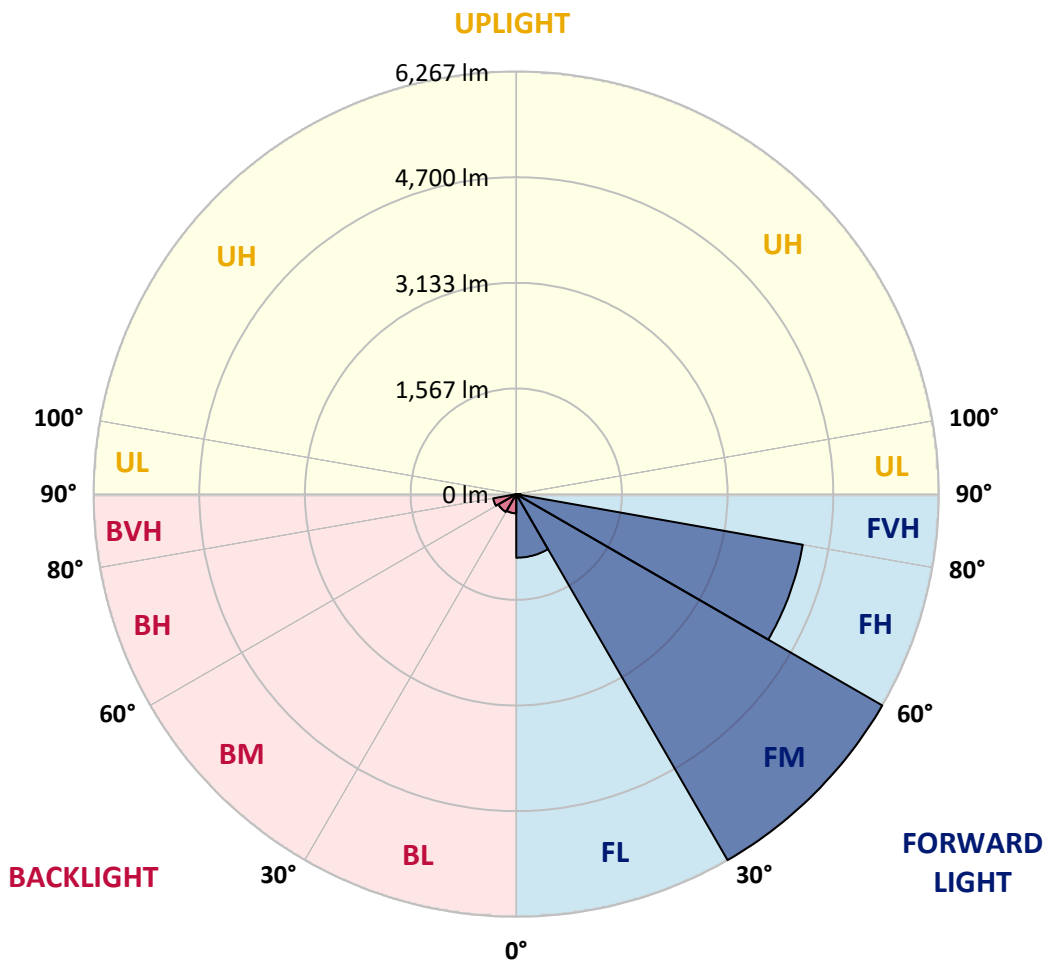


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.0	7.5			
FM (30°-60°)	6266.9	50.0			
FH (60°-80°)	4314.8	34.4			G2/5000
FVH (80°-90°)	68.5	0.5			G1/100
BL (0°-30°)	284.6	2.3	B1/500		
BM (30°-60°)	305.9	2.4	B1/1000		
BH (60°-80°)	346.9	2.8	B1/500		G1/500
BVH (80°-90°)	3.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1766.2	1764.3	1756.5	1743.0	1725.6	1719.8	1694.7	1659.9	1640.6	1619.3	1609.7
5°	1887.9	1878.3	1901.5	1891.8	1895.7	1849.3	1818.4	1793.2	1719.8	1690.8	1644.5
7.5°	1915.0	1924.6	1922.7	1938.2	1953.6	1971.0	1949.8	1913.1	1839.6	1797.1	1746.9
10°	1915.0	1911.1	1926.6	1947.8	1992.3	2030.9	2088.9	2040.6	1984.6	1934.3	1843.5
12.5°	1880.2	1874.4	1889.9	1934.3	2013.5	2092.8	2156.5	2202.9	2123.7	2083.1	1965.2
15°	1773.9	1768.1	1831.9	1911.1	2015.5	2144.9	2278.3	2353.6	2299.5	2235.8	2104.4
17.5°	1642.5	1650.2	1717.9	1849.3	2015.5	2170.1	2340.1	2504.4	2496.6	2415.5	2278.3
20°	1598.1	1603.9	1671.5	1766.2	1955.6	2187.5	2436.7	2668.6	2715.0	2618.4	2438.7
22.5°	1683.1	1677.3	1683.1	1741.1	1915.0	2172.0	2500.5	2856.1	2939.1	2863.8	2649.3
25°	1973.0	1969.1	1920.8	1831.9	1891.8	2137.2	2533.3	2979.7	3171.0	3101.5	2819.3
27.5°	2398.1	2382.6	2307.3	2121.7	2000.0	2158.5	2587.5	3099.5	3373.9	3294.7	2972.0
30°	2854.1	2817.4	2718.9	2487.0	2280.2	2237.7	2618.4	3188.4	3600.0	3499.5	3105.3
32.5°	3169.1	3217.4	3186.5	2950.7	2633.8	2421.3	2668.6	3300.5	3808.7	3743.0	3333.4
35°	3656.1	3712.1	3582.6	3373.9	3055.1	2713.1	2774.9	3391.3	4129.5	4019.3	3545.9
37.5°	4270.6	4313.1	4220.3	3824.2	3487.9	3072.5	2993.3	3580.7	4405.8	4353.6	3818.4
40°	4579.7	4784.6	4653.2	4295.7	3934.3	3574.9	3354.6	3802.9	4887.0	4844.5	4195.2
42.5°	5006.8	5109.2	5041.6	4776.8	4400.0	4112.1	3801.0	4235.8	5470.6	5470.6	4705.3
45°	5459.0	5462.8	5459.0	5242.5	4908.2	4759.4	4403.9	4778.8	6098.6	6168.1	5316.0
47.5°	5830.0	5945.9	5936.3	5806.8	5547.9	5491.8	5006.8	5397.1	6887.0	7008.7	5911.1
50°	6021.3	6150.8	6189.4	6257.0	6245.4	6363.3	5665.7	6114.0	7567.2	7866.7	6676.4
52.5°	5969.1	5978.8	6216.5	6483.1	6908.2	7238.7	6459.9	6927.6	8363.3	8659.0	7267.7
55°	5542.1	5505.3	5994.2	6299.5	7178.8	7774.0	7559.5	7942.1	8983.6	9433.9	7878.3
57.5°	4604.9	4614.5	5066.7	5687.0	6977.8	7986.5	8734.3	9267.7	9853.2	10307.3	8736.3
60°	3178.8	3167.2	3673.4	4390.4	5797.1	7590.4	9410.7	10985.6	11016.5	11660.0	10276.4
62.5°	1787.4	1791.3	2175.9	2788.4	4056.1	6202.9	9377.8	12809.7	12678.3	13242.6	12027.1
65°	1012.6	1037.7	1302.4	1652.2	2429.0	4164.3	8065.7	13536.3	13959.5	14461.9	13089.9
66°	856.0	873.4	1099.5	1364.3	1938.2	3377.8	7259.9	13395.2	14361.4	14744.0	13068.7
67.5°	662.8	686.0	875.4	1082.1	1422.2	2338.2	5843.5	12693.8	14434.9	14659.0	12699.6
70°	454.1	469.6	614.5	821.3	972.0	1196.1	3493.7	10494.7	13097.7	13287.0	11037.7
72.5°	318.8	326.6	430.9	622.2	747.8	684.1	1733.3	7466.7	10023.2	10392.3	8585.6
75°	230.0	237.7	295.7	446.4	583.6	448.3	794.2	4769.1	6146.9	6436.7	5171.0
77.5°	166.2	175.8	201.0	287.9	423.2	315.0	390.3	2490.8	2898.6	2848.3	2224.2
80°	100.5	110.1	148.8	185.5	309.2	222.2	214.5	1039.6	1028.0	975.9	699.5
82.5°	46.4	54.1	79.2	125.6	216.4	154.6	102.4	371.0	324.6	297.6	197.1
85°	13.5	17.4	46.4	94.7	110.1	75.4	61.8	127.5	133.3	114.0	65.7
87.5°	0.0	1.9	21.3	23.2	32.9	25.1	23.2	32.9	61.8	50.2	21.3
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°	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4	1559.4
2.5°	1574.9	1561.4	1528.5	1478.3	1433.8	1410.6	1377.8	1348.8	1333.3	1331.4	1329.5
5°	1613.5	1576.8	1497.6	1406.8	1339.1	1265.7	1215.5	1178.7	1144.0	1111.1	1130.4
7.5°	1665.7	1607.7	1478.3	1360.4	1213.5	1118.8	1030.0	977.8	946.9	917.9	914.0
10°	1746.9	1673.4	1464.7	1252.2	1084.1	944.9	854.1	778.7	736.2	686.0	705.3
12.5°	1857.0	1725.6	1414.5	1153.6	937.2	790.3	660.9	539.1	471.5	419.3	421.3
15°	1967.2	1795.2	1368.1	1033.8	803.9	610.6	421.3	338.2	318.8	307.2	311.1
17.5°	2075.4	1851.2	1296.6	912.1	651.2	388.4	307.2	289.9	280.2	268.6	268.6
20°	2206.8	1887.9	1207.7	800.0	448.3	287.9	262.8	251.2	235.7	220.3	222.2
22.5°	2334.3	1918.9	1105.3	657.0	301.5	249.3	220.3	204.8	191.3	175.8	175.8
25°	2461.8	1928.5	972.0	471.5	243.5	199.0	172.0	150.7	137.2	123.7	125.6
27.5°	2548.8	1868.6	846.4	301.5	195.2	150.7	119.8	102.4	90.8	77.3	77.3
30°	2599.0	1758.5	711.1	212.6	146.9	102.4	71.5	54.1	42.5	32.9	30.9
32.5°	2649.3	1669.6	558.5	162.3	96.6	54.1	27.1	9.7	0.0	0.0	0.0
35°	2749.8	1569.1	374.9	90.8	32.9	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2813.5	1430.0	172.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2973.9	1360.4	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3234.8	1312.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3520.8	1292.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3901.5	1344.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4303.4	1486.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4744.0	1619.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5128.5	1779.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5835.8	2158.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7105.3	2902.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8535.3	3455.1	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9059.0	3441.6	36.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8966.2	3252.2	36.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8485.1	2888.9	32.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7287.0	2386.5	32.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5555.6	1858.9	30.9	7.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3352.7	989.4	25.1	9.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1335.3	347.8	19.3	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	361.4	104.3	11.6	7.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	94.7	38.6	9.7	7.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	36.7	15.5	7.7	5.8	5.8	3.9	1.9	0.0	0.0	0.0	0.0
87.5°	11.6	5.8	5.8	3.9	3.9	1.9	1.9	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)