

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: P482700

Luminaire Tested: **IFLD-M-SA4A-722-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482700
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

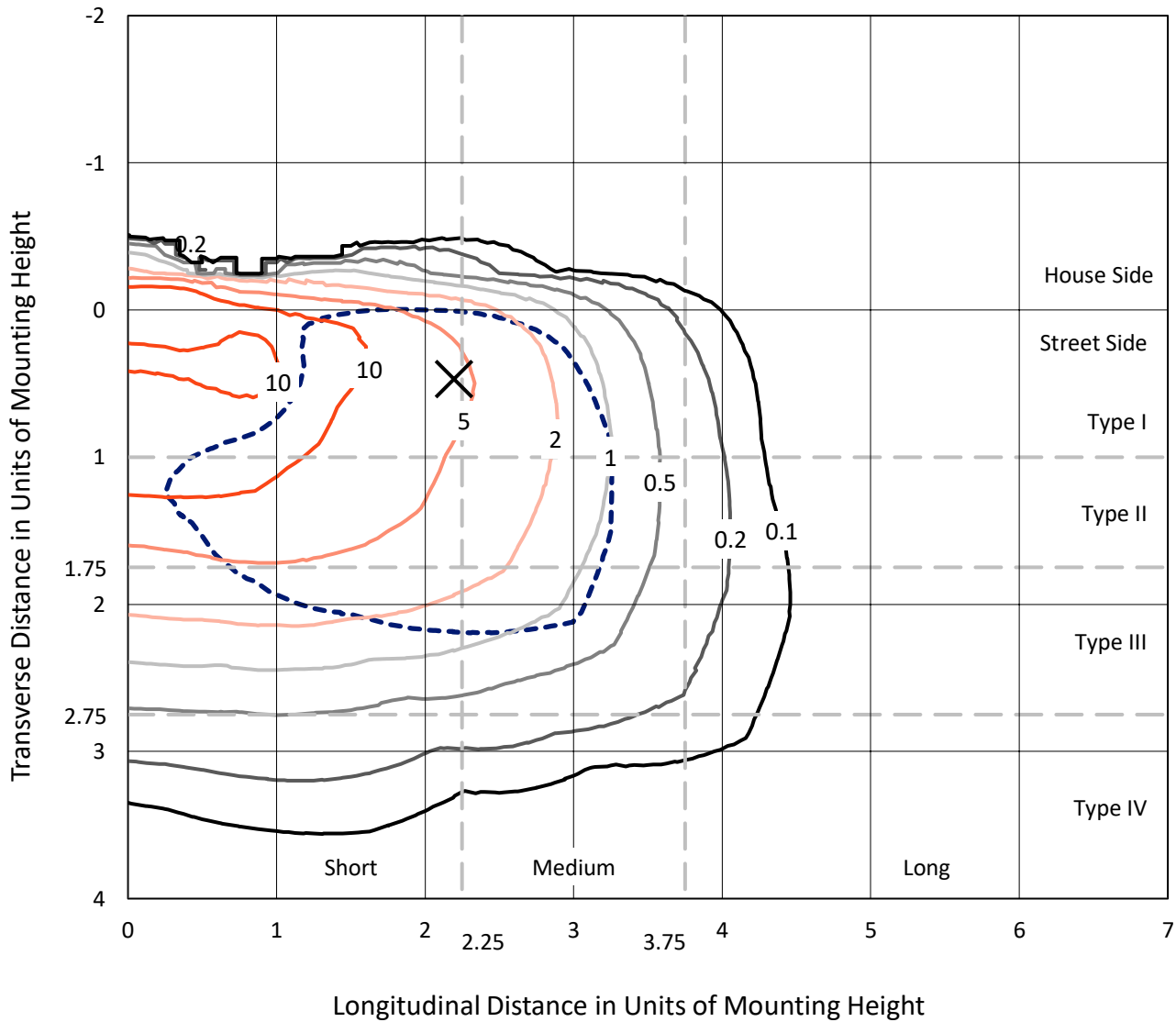
Lumens per Lamp: N/A
Luminaire Lumens: 9750.9 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

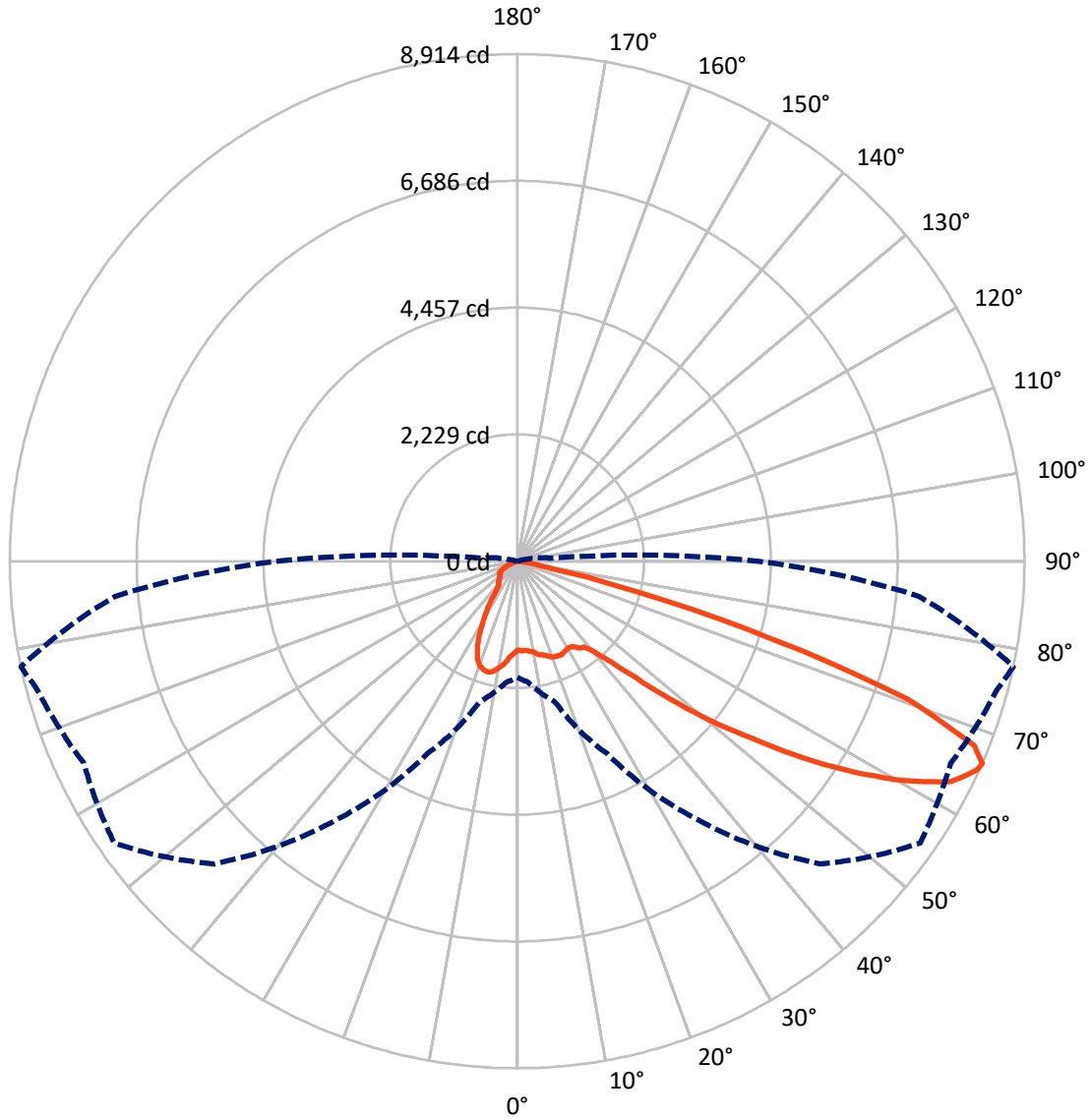
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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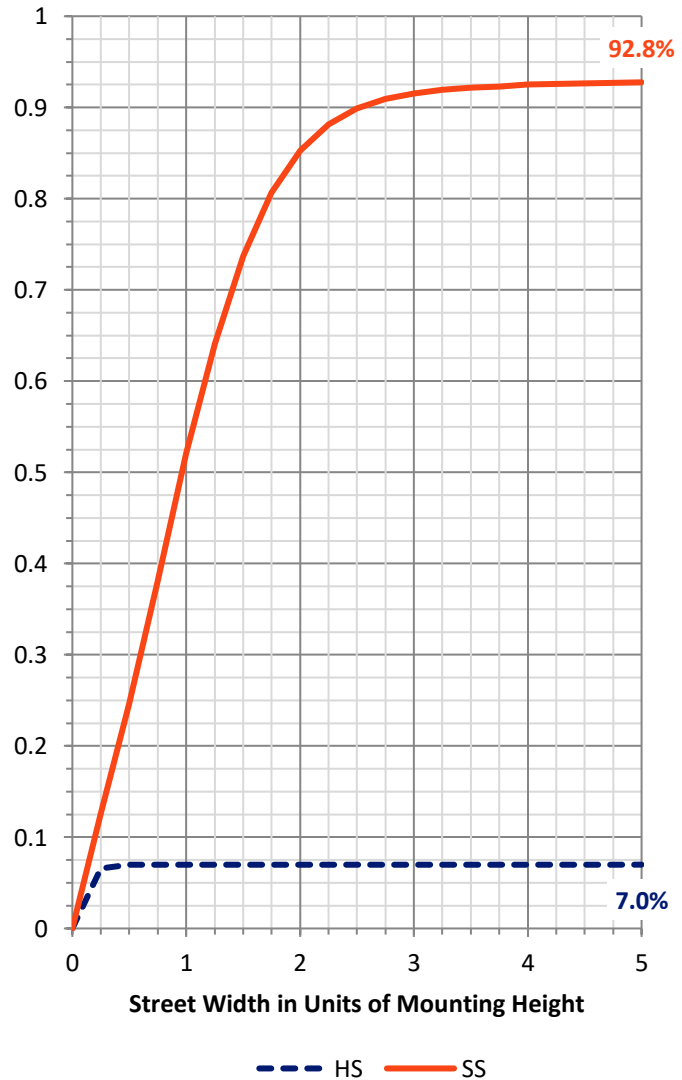
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	685.5	0.0	685.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	9065.4	0.0	9065.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	9750.9	0.0	9750.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	1.5
10°-20°	322.5	3.3
20°-30°	461.0	4.7
30°-40°	789.1	8.1
40°-50°	1424.3	14.6
50°-60°	2435.7	25.0
60°-70°	2997.9	30.7
70°-80°	1133.4	11.6
80°-90°	44.3	0.5
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°	9750.9	100.0
0°-180°	9750.9	100.0

Coefficient of Utilization

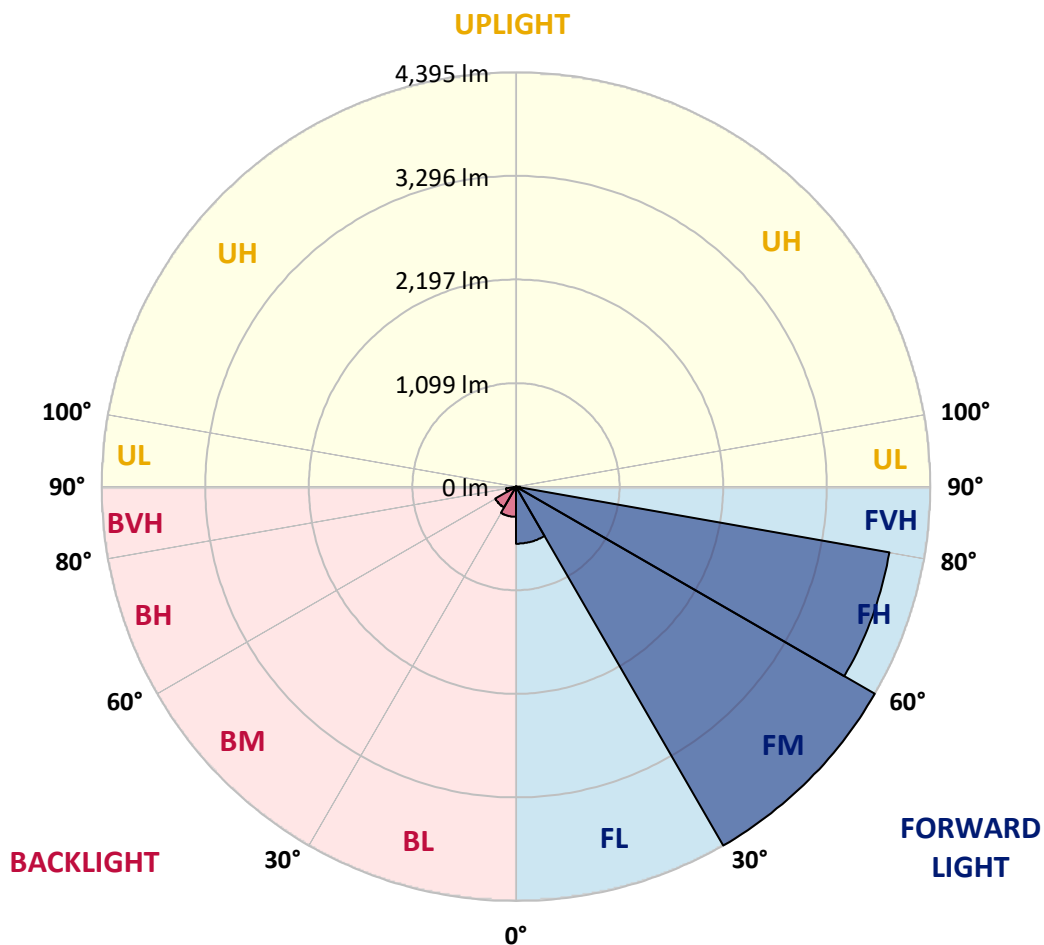


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.3	6.2			
FM (30°-60°)	4394.9	45.1			
FH (60°-80°)	4022.6	41.3			G2/5000
FVH (80°-90°)	42.5	0.4			G1/100
BL (0°-30°)	321.1	3.3	B1/500		
BM (30°-60°)	254.1	2.6	B1/1000		
BH (60°-80°)	108.6	1.1	B0/110		G0/110
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°	65°	75°	78°	85°
0°	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8
2.5°	1436.5	1423.3	1436.5	1455.7	1466.0	1474.9	1505.8	1532.3	1560.3	1579.5	1573.6
5°	1331.9	1357.0	1359.9	1365.8	1382.0	1435.1	1452.8	1498.4	1567.7	1573.6	1600.1
7.5°	1249.4	1242.1	1261.2	1299.5	1340.8	1371.7	1423.3	1502.8	1575.0	1600.1	1651.7
10°	1130.1	1144.8	1165.4	1203.8	1253.8	1330.5	1421.8	1510.2	1613.4	1622.2	1718.0
12.5°	1065.3	1050.5	1082.9	1122.7	1208.2	1278.9	1390.9	1497.0	1636.9	1685.5	1796.1
15°	1012.2	1019.6	1050.5	1077.0	1147.8	1237.6	1368.8	1529.4	1676.7	1710.6	1878.6
17.5°	990.1	985.7	1009.3	1035.8	1122.7	1224.4	1359.9	1530.8	1712.1	1756.3	1934.5
20°	1000.4	1009.3	1001.9	1026.9	1081.5	1184.6	1373.2	1558.8	1738.6	1799.0	1995.0
22.5°	1162.5	1150.7	1091.8	1044.6	1047.6	1168.4	1362.9	1576.5	1762.2	1810.8	2036.2
25°	1585.4	1522.0	1376.1	1194.9	1075.6	1124.2	1351.1	1570.6	1757.7	1818.2	2061.3
27.5°	2011.2	1956.6	1813.7	1532.3	1189.0	1106.5	1309.8	1575.0	1735.6	1791.6	2020.0
30°	2460.5	2490.0	2277.8	1943.4	1486.6	1203.8	1283.3	1551.5	1720.9	1768.1	2028.8
32.5°	2921.7	2909.9	2781.7	2419.3	1912.4	1418.9	1326.0	1575.0	1740.1	1785.7	2080.4
35°	3282.7	3241.4	3111.8	2784.7	2264.6	1743.0	1473.4	1687.0	1824.0	1878.6	2154.1
37.5°	3461.0	3478.7	3403.5	3119.1	2650.6	2043.6	1657.6	1687.0	1850.6	1913.9	2273.4
40°	3599.5	3652.5	3624.5	3533.2	3033.7	2382.5	1860.9	1791.6	1984.6	2104.0	2497.4
42.5°	3766.0	3740.9	3905.9	3821.9	3534.6	2809.7	2217.4	2040.6	2301.4	2416.3	2833.3
45°	3854.4	3950.1	4075.4	4182.9	3998.8	3343.1	2683.0	2481.2	2786.2	2932.0	3332.8
47.5°	4081.3	4119.6	4322.9	4458.5	4375.9	3953.1	3390.2	3125.0	3396.1	3626.0	3904.5
50°	4213.9	4162.3	4446.7	4652.9	4700.1	4458.5	4023.8	3817.5	4121.0	4414.2	4439.3
52.5°	4097.5	4244.8	4529.2	4899.0	5030.1	4909.3	4767.9	4678.0	4891.6	5162.7	5041.9
55°	3689.3	3789.5	4482.0	5168.6	5591.5	5535.5	5666.6	5607.7	5822.8	6110.1	5746.2
57.5°	3360.8	3486.0	4094.5	5308.6	6114.5	6279.5	6444.6	6407.7	6667.0	6998.6	6342.9
60°	3156.0	3228.2	3814.6	5273.2	6423.9	7048.7	7421.4	7162.1	7585.0	7838.4	6810.0
62.5°	2800.9	2846.6	3406.5	4804.7	6516.8	7592.3	8224.4	7872.3	8239.1	8548.6	7145.9
65°	2245.4	2369.2	2831.8	4103.4	5903.8	7692.5	8725.4	8311.3	8666.4	8869.8	7247.6
66°	2043.6	2133.5	2557.8	3732.1	5554.6	7526.0	8641.4	8402.7	8728.3	8914.0	7091.4
67.5°	1695.9	1774.0	2111.4	3203.1	4840.1	7159.2	8700.3	8340.8	8775.5	8662.0	6882.2
70°	1122.7	1172.8	1443.9	2165.9	3371.1	5856.7	8069.7	7857.5	7714.6	7288.8	5380.8
72.5°	524.5	596.7	901.7	1312.8	1977.3	4097.5	6580.1	6295.8	5410.3	4729.6	3394.7
75°	237.2	269.6	495.1	752.9	887.0	2123.1	4244.8	3833.7	2693.3	2236.6	1486.6
77.5°	128.2	145.9	241.6	358.0	322.7	744.1	2101.0	1747.4	848.7	621.8	431.7
80°	98.7	116.4	201.9	204.8	119.3	193.0	780.9	540.7	212.2	160.6	103.1
82.5°	51.6	73.7	159.1	132.6	60.4	78.1	241.6	150.3	66.3	53.0	44.2
85°	20.6	32.4	89.9	88.4	35.4	26.5	67.8	45.7	26.5	22.1	20.6
87.5°	1.5	1.5	48.6	33.9	22.1	7.4	10.3	10.3	13.3	11.8	14.7
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°	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8	1561.8
2.5°	1600.1	1617.8	1620.7	1669.3	1679.7	1669.3	1695.9	1691.4	1703.2	1694.4	1678.2
5°	1636.9	1662.0	1710.6	1747.4	1747.4	1718.0	1694.4	1663.4	1617.8	1606.0	1597.1
7.5°	1700.3	1779.8	1824.0	1800.5	1753.3	1642.8	1489.6	1377.6	1283.3	1248.0	1231.7
10°	1812.3	1856.5	1908.0	1812.3	1616.3	1382.0	1124.2	954.8	822.1	792.7	770.6
12.5°	1884.5	1955.2	1984.6	1747.4	1362.9	1013.7	733.7	542.2	449.4	378.7	366.9
15°	1978.8	2059.8	1999.4	1572.1	1074.1	664.5	380.1	237.2	193.0	181.2	181.2
17.5°	2043.6	2132.0	1939.0	1354.0	761.7	353.6	188.6	163.5	160.6	162.1	159.1
20°	2157.0	2210.1	1847.6	1100.6	455.3	181.2	151.8	145.9	142.9	147.3	144.4
22.5°	2199.8	2248.4	1698.8	797.1	204.8	120.8	113.5	109.0	112.0	110.5	109.0
25°	2196.8	2221.9	1454.2	456.7	60.4	47.1	42.7	42.7	39.8	41.3	39.8
27.5°	2218.9	2157.0	1180.2	135.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2230.7	2052.4	839.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2236.6	1997.9	540.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2282.3	1888.9	231.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2313.2	1748.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2441.4	1704.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2607.9	1622.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2839.2	1499.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3145.7	1427.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3374.0	1314.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3664.3	1246.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4009.1	1249.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4322.9	1228.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4483.5	1050.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4449.6	850.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4331.7	667.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4250.7	590.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4004.6	473.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3186.9	324.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2027.4	198.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	934.1	91.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	293.2	56.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.6	35.4	11.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.8	25.0	10.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.0	10.3	4.4	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	5.9	2.9	2.9	1.5	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)