

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: P482716

Luminaire Tested: **IFLD-S-SA2C-727-U-T3R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482716  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

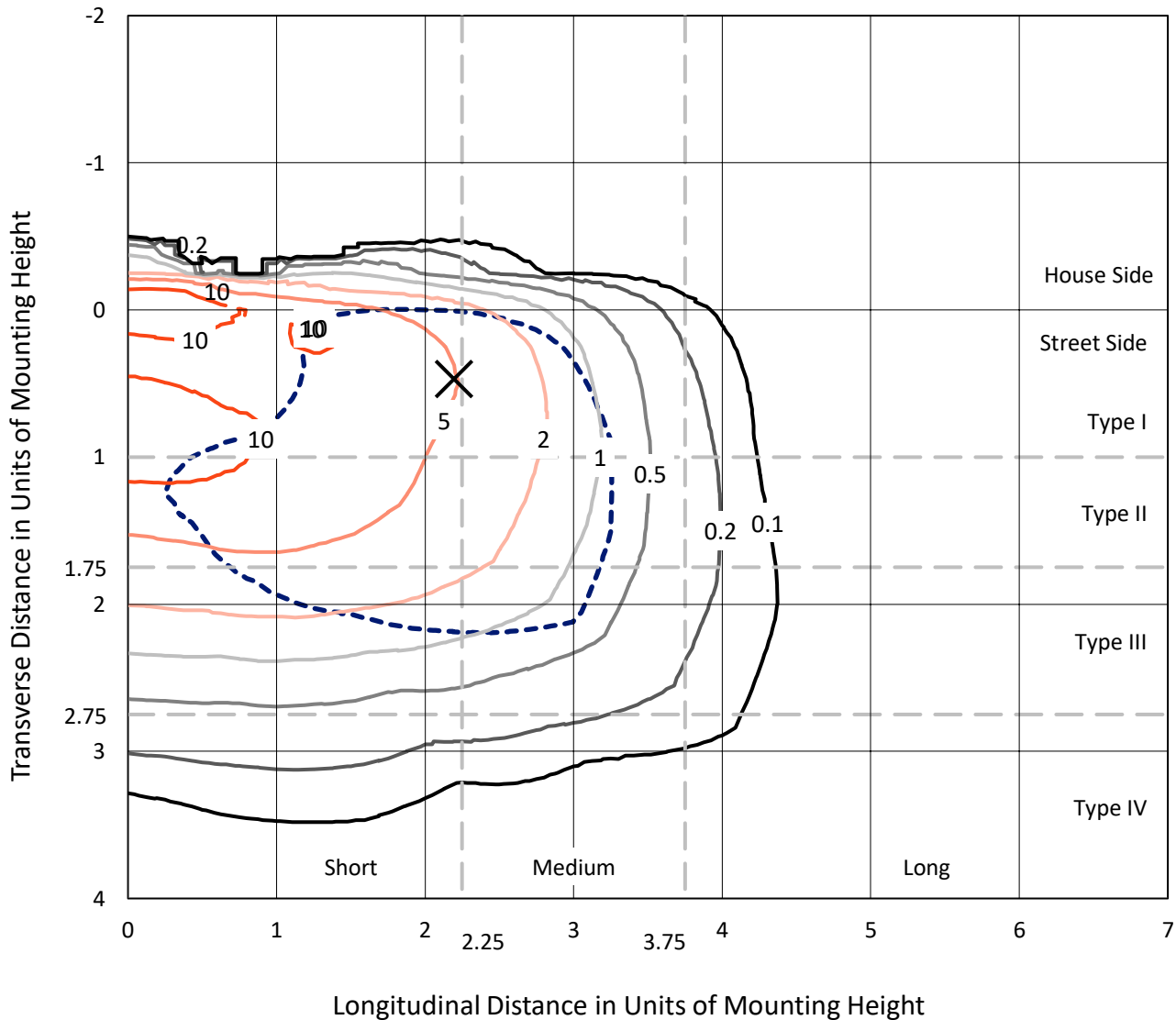
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8520.6 lumens  
Efficiency: N/A  
Efficacy: 78.7 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

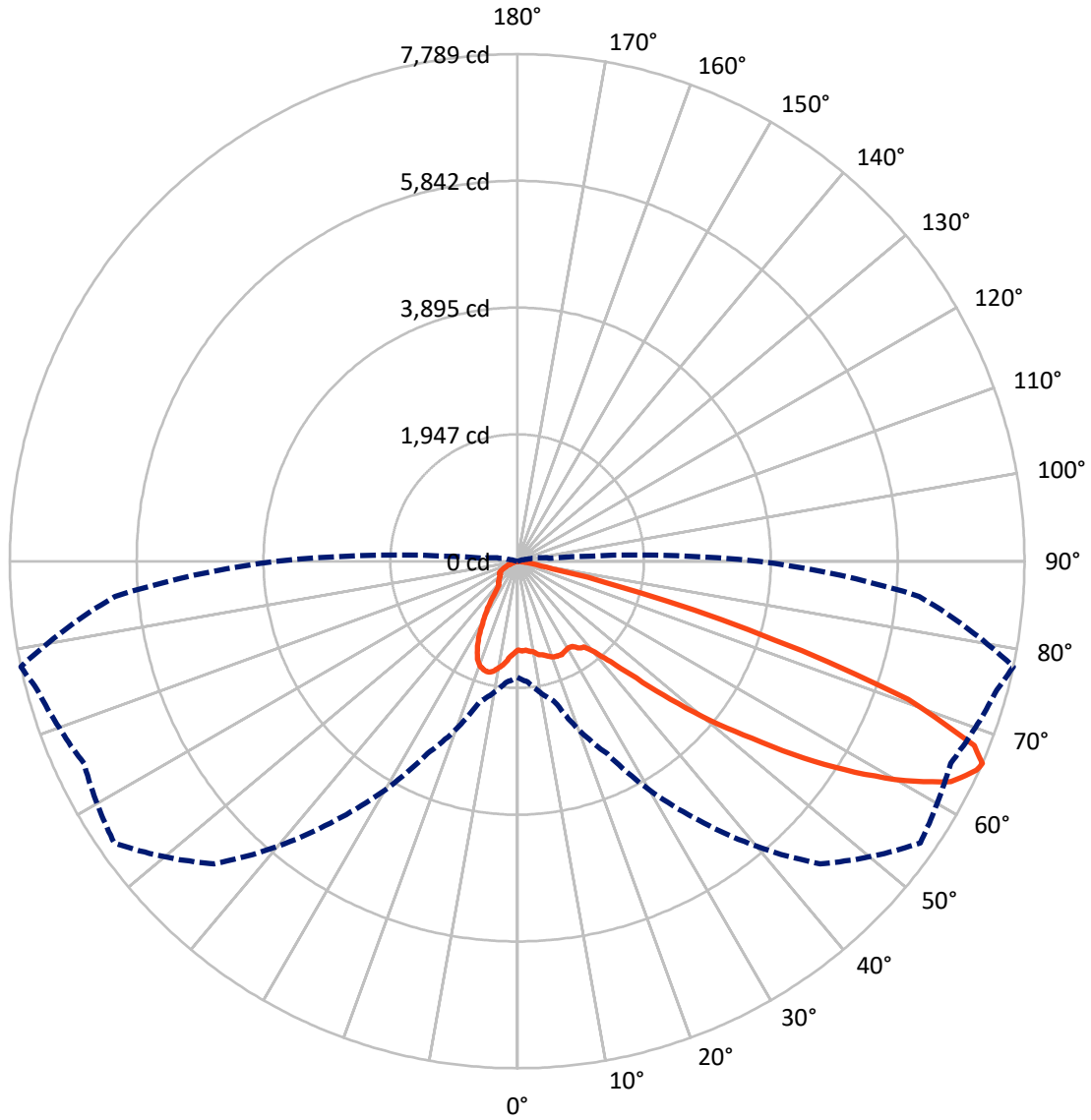
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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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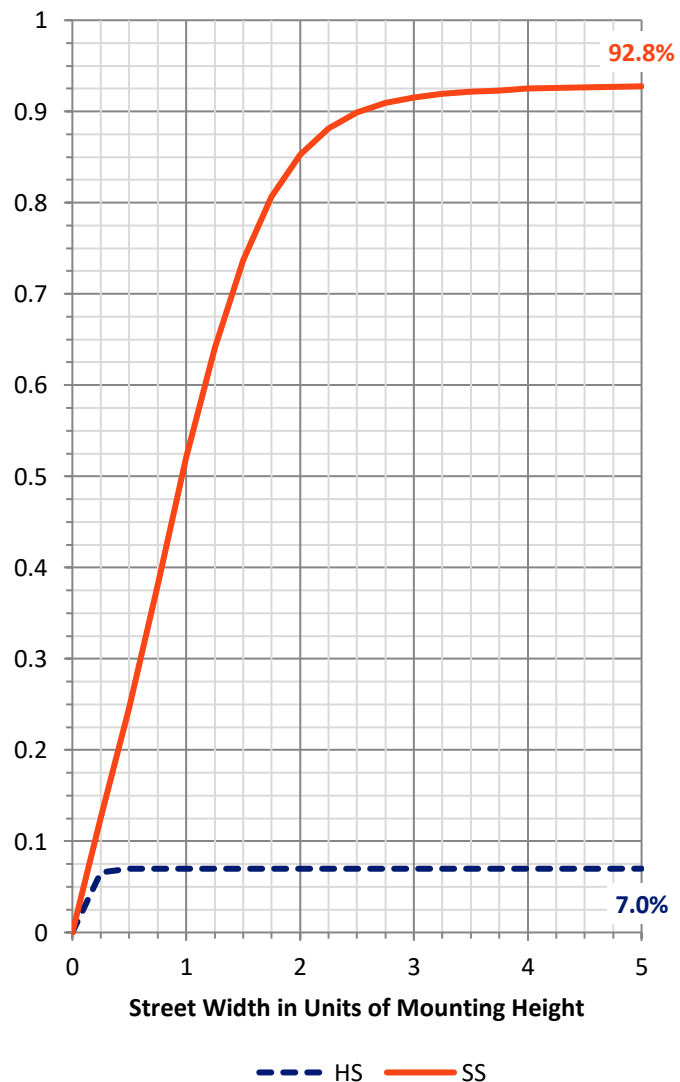
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	599.0	0.0	599.0
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	7921.6	0.0	7921.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	8520.6	0.0	8520.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	1.5
10°-20°	281.8	3.3
20°-30°	402.8	4.7
30°-40°	689.5	8.1
40°-50°	1244.5	14.6
50°-60°	2128.3	25.0
60°-70°	2619.6	30.7
70°-80°	990.4	11.6
80°-90°	38.7	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°	8520.6	100.0
0°-180°	8520.6	100.0

**Coefficient of Utilization**

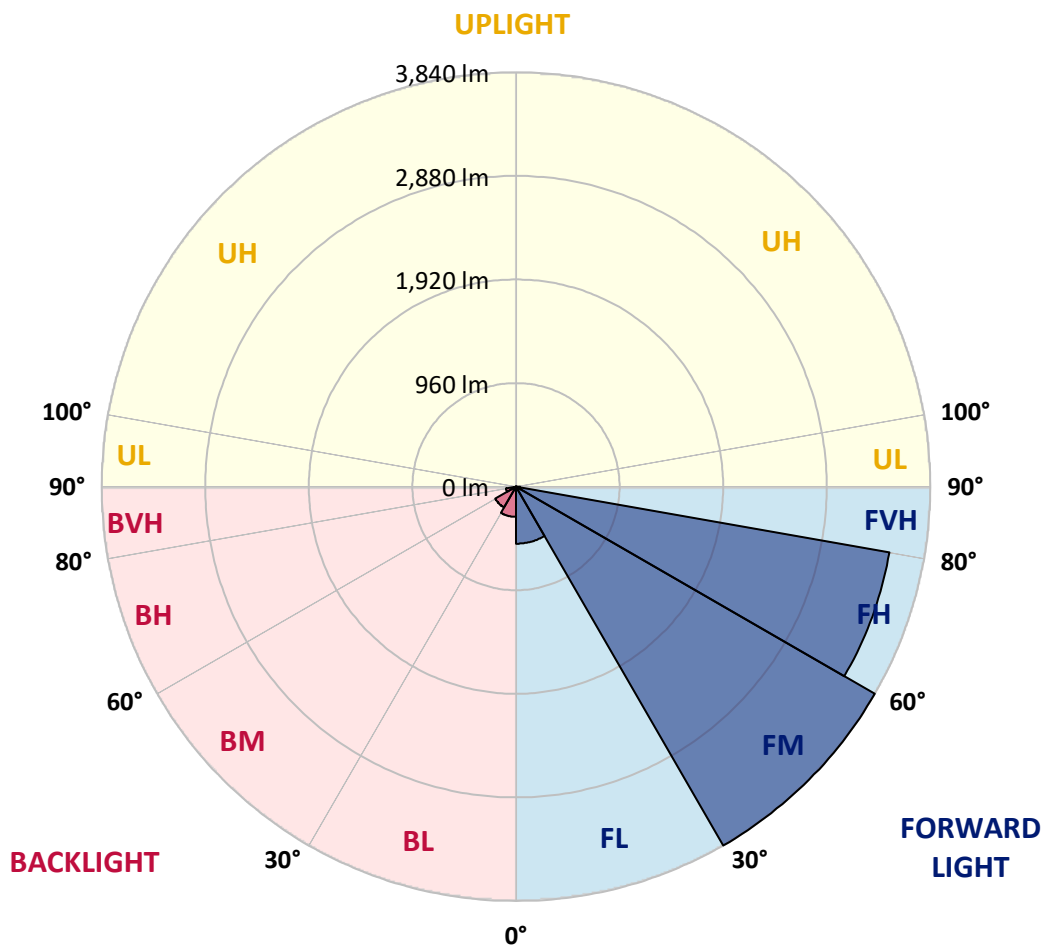


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.0	6.2			
FM (30°-60°)	3840.4	45.1			
FH (60°-80°)	3515.1	41.3			G2/5000
FVH (80°-90°)	37.1	0.4			G1/100
BL (0°-30°)	280.6	3.3	B1/500		
BM (30°-60°)	222.0	2.6	B1/1000		
BH (60°-80°)	94.9	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	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°	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1255.3	1243.7	1255.3	1272.0	1281.0	1288.8	1315.8	1339.0	1363.4	1380.2	1375.0
5°	1163.9	1185.8	1188.3	1193.5	1207.7	1254.0	1269.4	1309.4	1369.9	1375.0	1398.2
7.5°	1091.8	1085.3	1102.1	1135.6	1171.6	1198.6	1243.7	1313.2	1376.3	1398.2	1443.3
10°	987.5	1000.4	1018.4	1051.9	1095.6	1162.6	1242.4	1319.7	1409.8	1417.5	1501.2
12.5°	930.8	918.0	946.3	981.1	1055.7	1117.5	1215.4	1308.1	1430.4	1472.9	1569.4
15°	884.5	890.9	918.0	941.1	1002.9	1081.5	1196.1	1336.4	1465.1	1494.8	1641.5
17.5°	865.2	861.3	881.9	905.1	981.1	1069.9	1188.3	1337.7	1496.0	1534.7	1690.5
20°	874.2	881.9	875.5	897.4	945.0	1035.1	1199.9	1362.1	1519.2	1572.0	1743.2
22.5°	1015.8	1005.5	954.0	912.8	915.4	1021.0	1190.9	1377.6	1539.8	1582.3	1779.3
25°	1385.3	1330.0	1202.5	1044.1	939.9	982.3	1180.6	1372.4	1536.0	1588.7	1801.2
27.5°	1757.4	1709.8	1584.9	1339.0	1039.0	966.9	1144.6	1376.3	1516.6	1565.6	1765.1
30°	2150.1	2175.8	1990.4	1698.2	1299.1	1051.9	1121.4	1355.7	1503.8	1545.0	1772.9
32.5°	2553.1	2542.8	2430.8	2114.0	1671.1	1239.8	1158.7	1376.3	1520.5	1560.4	1817.9
35°	2868.5	2832.4	2719.1	2433.3	1978.8	1523.1	1287.5	1474.2	1593.9	1641.5	1882.3
37.5°	3024.3	3039.7	2974.1	2725.6	2316.2	1785.7	1448.4	1474.2	1617.1	1672.4	1986.6
40°	3145.3	3191.6	3167.2	3087.4	2650.9	2081.8	1626.1	1565.6	1734.2	1838.5	2182.3
42.5°	3290.8	3268.9	3413.1	3339.7	3088.6	2455.2	1937.6	1783.2	2011.0	2111.5	2475.8
45°	3368.0	3451.7	3561.2	3655.1	3494.2	2921.3	2344.5	2168.1	2434.6	2562.1	2912.3
47.5°	3566.3	3599.8	3777.4	3895.9	3823.8	3454.3	2962.5	2730.7	2967.6	3168.5	3411.8
50°	3682.2	3637.1	3885.6	4065.8	4107.0	3895.9	3516.1	3335.8	3601.1	3857.3	3879.2
52.5°	3580.5	3709.2	3957.7	4280.9	4395.4	4289.9	4166.3	4087.7	4274.4	4511.3	4405.7
55°	3223.8	3311.4	3916.5	4516.5	4886.0	4837.0	4951.6	4900.1	5088.1	5339.2	5021.1
57.5°	2936.7	3046.2	3577.9	4638.8	5343.0	5487.2	5631.4	5599.2	5825.8	6115.5	5542.6
60°	2757.8	2820.9	3333.3	4607.9	5613.4	6159.3	6485.0	6258.4	6627.9	6849.4	5950.7
62.5°	2447.5	2487.4	2976.6	4198.5	5694.5	6634.4	7186.7	6879.0	7199.6	7469.9	6244.2
65°	1962.1	2070.3	2474.5	3585.6	5158.9	6721.9	7624.4	7262.6	7572.9	7750.6	6333.1
66°	1785.7	1864.3	2235.1	3261.2	4853.8	6576.4	7551.0	7342.5	7627.0	7789.2	6196.6
67.5°	1481.9	1550.1	1844.9	2799.0	4229.4	6255.8	7602.5	7288.4	7668.2	7569.1	6013.8
70°	981.1	1024.8	1261.7	1892.6	2945.7	5117.7	7051.5	6866.1	6741.2	6369.1	4701.9
72.5°	458.3	521.4	787.9	1147.1	1727.8	3580.5	5749.9	5501.4	4727.6	4132.8	2966.3
75°	207.3	235.6	432.6	657.9	775.1	1855.2	3709.2	3350.0	2353.5	1954.4	1299.1
77.5°	112.0	127.5	211.1	312.9	282.0	650.2	1835.9	1526.9	741.6	543.3	377.2
80°	86.3	101.7	176.4	179.0	104.3	168.7	682.4	472.5	185.4	140.3	90.1
82.5°	45.1	64.4	139.0	115.9	52.8	68.2	211.1	131.3	57.9	46.3	38.6
85°	18.0	28.3	78.5	77.2	30.9	23.2	59.2	39.9	23.2	19.3	18.0
87.5°	1.3	1.3	42.5	29.6	19.3	6.4	9.0	9.0	11.6	10.3	12.9
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°	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1398.2	1413.6	1416.2	1458.7	1467.7	1458.7	1481.9	1478.0	1488.3	1480.6	1466.4
5°	1430.4	1452.3	1494.8	1526.9	1526.9	1501.2	1480.6	1453.6	1413.6	1403.3	1395.6
7.5°	1485.7	1555.3	1593.9	1573.3	1532.1	1435.5	1301.6	1203.8	1121.4	1090.5	1076.3
10°	1583.6	1622.2	1667.3	1583.6	1412.4	1207.7	982.3	834.3	718.4	692.7	673.3
12.5°	1646.7	1708.5	1734.2	1526.9	1190.9	885.8	641.2	473.8	392.7	330.9	320.6
15°	1729.1	1799.9	1747.1	1373.7	938.6	580.7	332.2	207.3	168.7	158.4	158.4
17.5°	1785.7	1863.0	1694.3	1183.2	665.6	309.0	164.8	142.9	140.3	141.6	139.0
20°	1884.9	1931.2	1614.5	961.7	397.8	158.4	132.6	127.5	124.9	128.7	126.2
22.5°	1922.2	1964.7	1484.5	696.5	179.0	105.6	99.1	95.3	97.8	96.6	95.3
25°	1919.6	1941.5	1270.7	399.1	52.8	41.2	37.3	37.3	34.8	36.0	34.8
27.5°	1938.9	1884.9	1031.3	118.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1949.2	1793.5	733.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1954.4	1745.8	472.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1994.3	1650.5	202.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2021.3	1528.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2133.3	1489.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2278.8	1417.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2481.0	1310.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2748.8	1247.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2948.3	1148.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3201.9	1089.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3503.2	1091.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3777.4	1073.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3917.8	918.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3888.2	742.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3785.2	583.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3714.4	516.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3499.4	413.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2784.8	283.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1771.6	173.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	816.3	79.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	256.2	48.9	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.9	30.9	10.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.8	21.9	9.0	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	9.0	3.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	5.1	2.6	2.6	1.3	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)