

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: P482719

Luminaire Tested: **IFLD-S-SA3A-727-U-T3R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482719  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

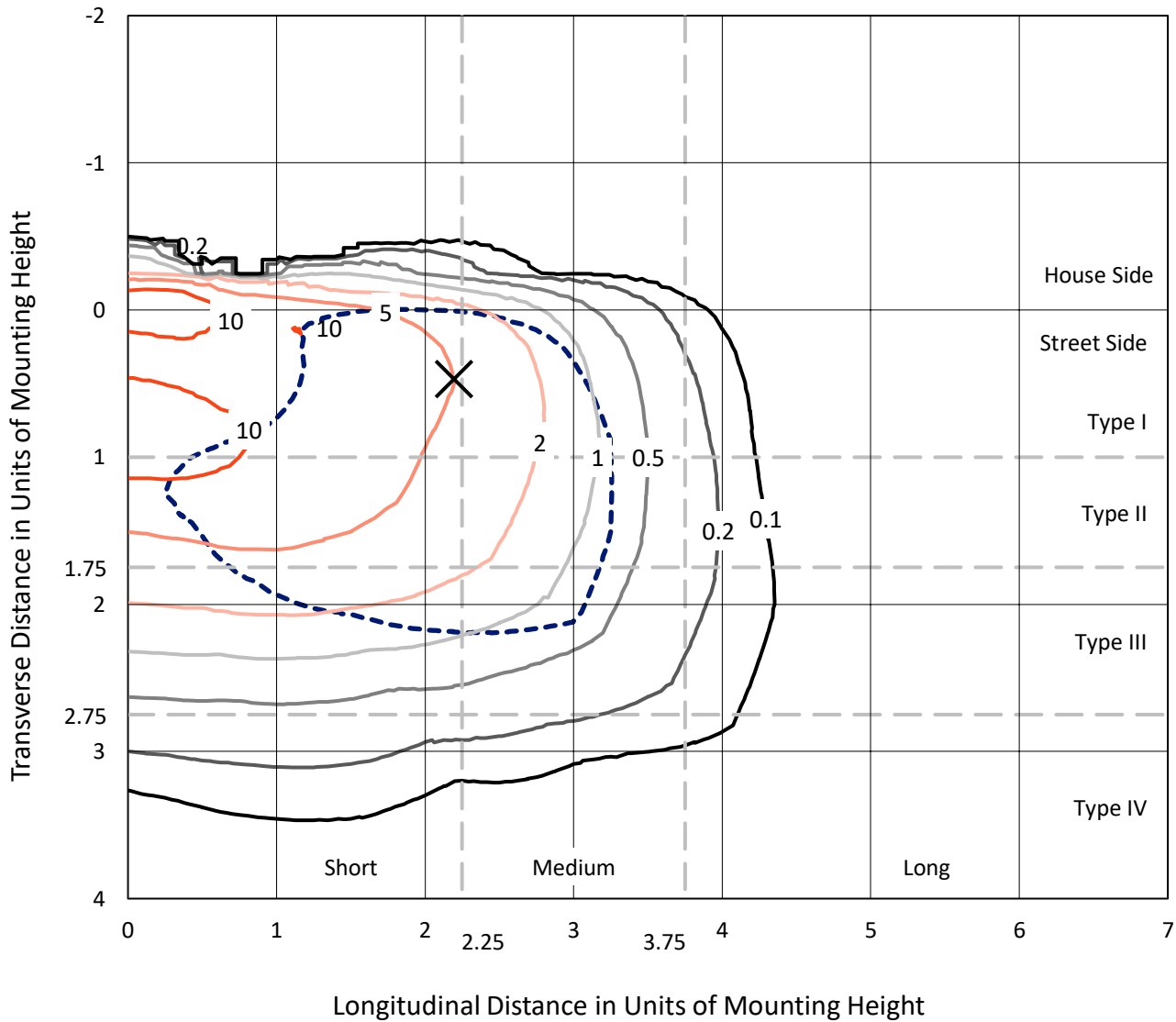
Lumens per Lamp: N/A  
Luminaire Lumens: 8247.9 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

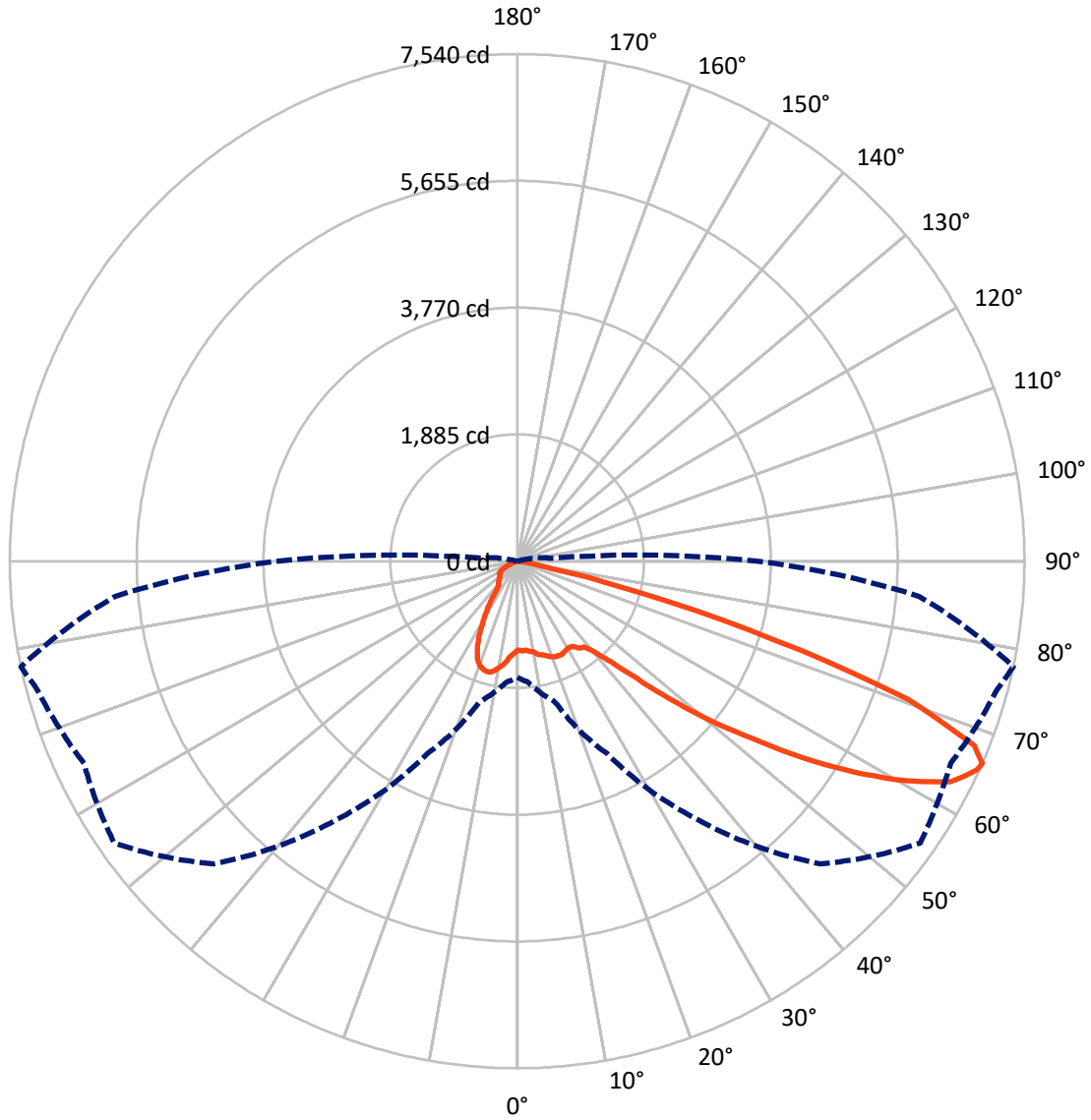
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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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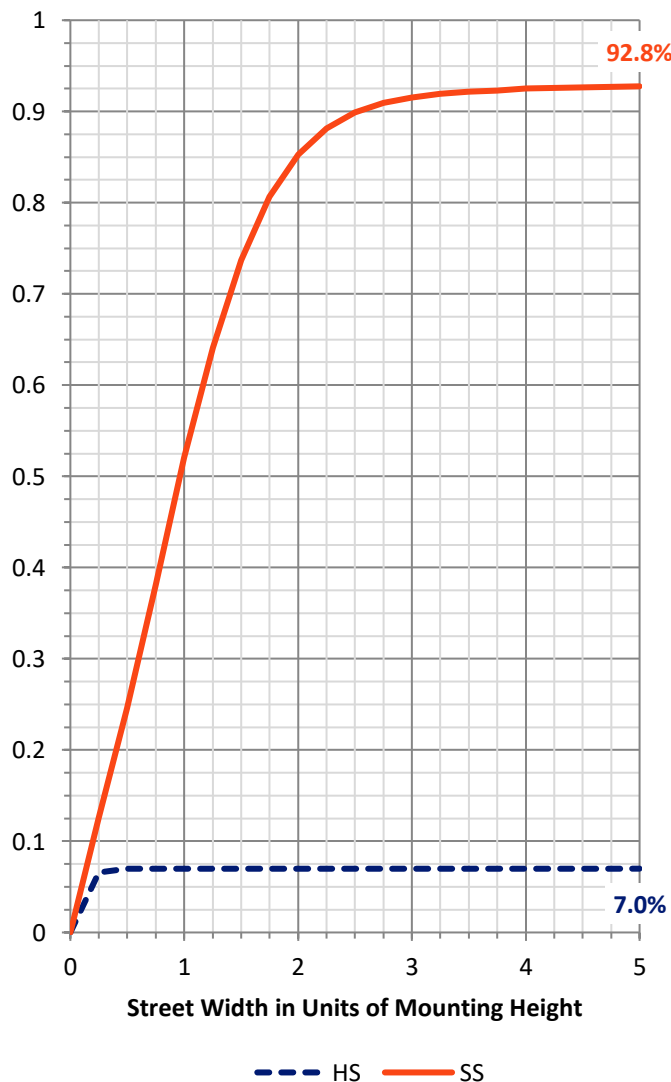
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	579.9	0.0	579.9
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	7668.0	0.0	7668.0
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	8247.9	0.0	8247.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.9	1.5
10°-20°	272.8	3.3
20°-30°	389.9	4.7
30°-40°	667.5	8.1
40°-50°	1204.7	14.6
50°-60°	2060.2	25.0
60°-70°	2535.8	30.7
70°-80°	958.7	11.6
80°-90°	37.4	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°	8247.9	100.0
0°-180°	8247.9	100.0

**Coefficient of Utilization**

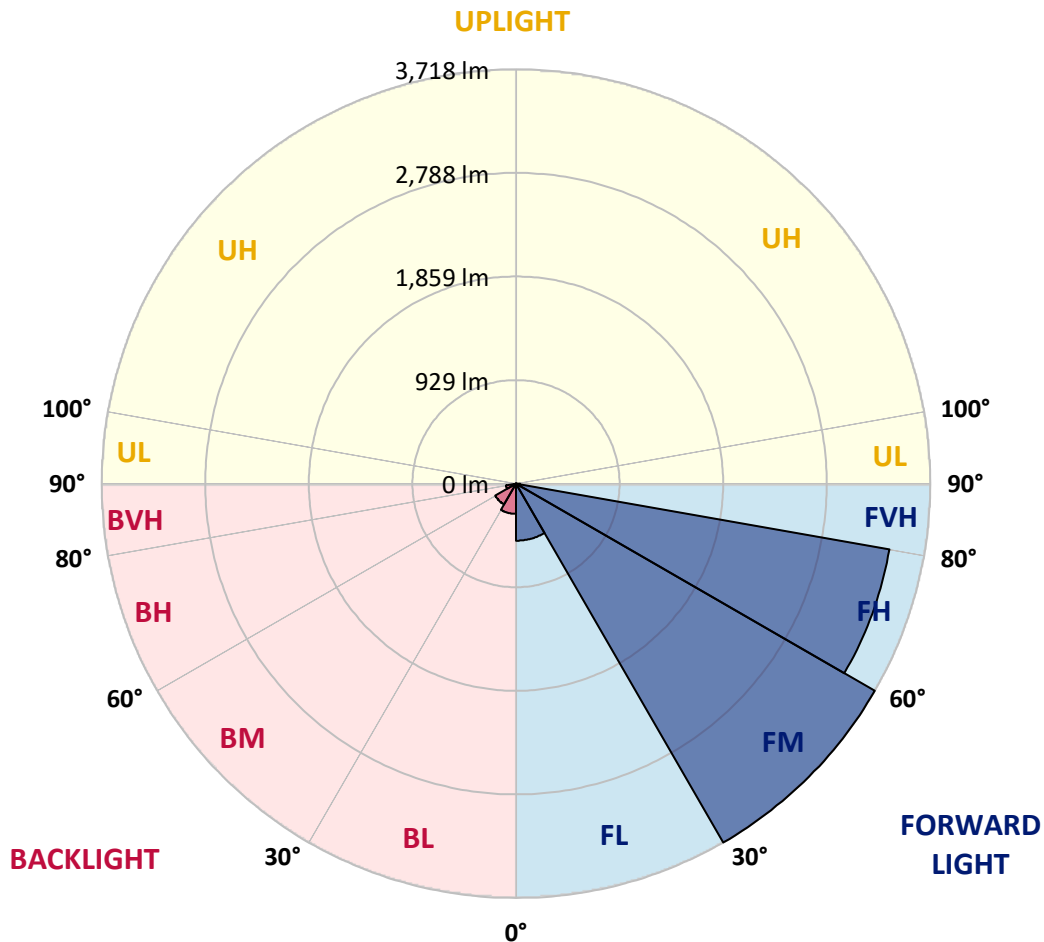


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.0	6.2			
FM (30°-60°)	3717.5	45.1			
FH (60°-80°)	3402.6	41.3			G2/5000
FVH (80°-90°)	35.9	0.4			G1/100
BL (0°-30°)	271.6	3.3	B1/500		
BM (30°-60°)	214.9	2.6	B0/220		
BH (60°-80°)	91.9	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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°	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0
2.5°	1215.1	1203.9	1215.1	1231.3	1240.0	1247.5	1273.7	1296.1	1319.8	1336.0	1331.0
5°	1126.6	1147.8	1150.3	1155.3	1169.0	1213.9	1228.8	1267.5	1326.0	1331.0	1353.4
7.5°	1056.8	1050.6	1066.8	1099.2	1134.1	1160.3	1203.9	1271.2	1332.3	1353.4	1397.1
10°	955.9	968.4	985.8	1018.2	1060.6	1125.4	1202.7	1277.4	1364.7	1372.1	1453.2
12.5°	901.1	888.6	916.0	949.7	1021.9	1081.8	1176.5	1266.2	1384.6	1425.7	1519.2
15°	856.2	862.4	888.6	911.0	970.8	1046.9	1157.8	1293.6	1418.3	1446.9	1589.0
17.5°	837.5	833.8	853.7	876.1	949.7	1035.7	1150.3	1294.9	1448.2	1485.6	1636.4
20°	846.2	853.7	847.5	868.7	914.8	1002.0	1161.5	1318.6	1470.6	1521.7	1687.5
22.5°	983.3	973.3	923.5	883.6	886.1	988.3	1152.8	1333.5	1490.5	1531.7	1722.3
25°	1341.0	1287.4	1164.0	1010.7	909.8	950.9	1142.8	1328.5	1486.8	1537.9	1743.5
27.5°	1701.2	1655.0	1534.2	1296.1	1005.7	935.9	1107.9	1332.3	1468.1	1515.5	1708.6
30°	2081.3	2106.2	1926.7	1643.8	1257.5	1018.2	1085.5	1312.3	1455.6	1495.5	1716.1
32.5°	2471.4	2461.4	2353.0	2046.4	1617.7	1200.2	1121.6	1332.3	1471.8	1510.5	1759.7
35°	2776.7	2741.8	2632.1	2355.5	1915.5	1474.3	1246.3	1427.0	1542.9	1589.0	1822.0
37.5°	2927.5	2942.4	2878.9	2638.4	2242.0	1728.6	1402.1	1427.0	1565.3	1618.9	1923.0
40°	3044.6	3089.5	3065.8	2988.6	2566.1	2015.2	1574.0	1515.5	1678.7	1779.7	2112.4
42.5°	3185.5	3164.3	3303.9	3232.8	2989.8	2376.6	1875.6	1726.1	1946.7	2043.9	2396.6
45°	3260.2	3341.3	3447.2	3538.2	3382.4	2827.8	2269.5	2098.7	2356.7	2480.1	2819.1
47.5°	3452.2	3484.6	3656.6	3771.2	3701.4	3343.7	2867.7	2643.3	2872.7	3067.1	3302.6
50°	3564.3	3520.7	3761.2	3935.7	3975.6	3771.2	3403.6	3229.1	3485.8	3733.8	3755.0
52.5°	3465.9	3590.5	3831.0	4143.8	4254.8	4152.6	4032.9	3956.9	4137.6	4366.9	4264.7
55°	3120.7	3205.4	3791.2	4371.9	4729.6	4682.2	4793.2	4743.3	4925.3	5168.3	4860.5
57.5°	2842.7	2948.7	3463.4	4490.3	5172.0	5311.6	5451.2	5420.0	5639.4	5919.8	5365.2
60°	2669.5	2730.6	3226.6	4460.4	5433.7	5962.2	6277.5	6058.1	6415.8	6630.2	5760.3
62.5°	2369.2	2407.8	2881.4	4064.1	5512.3	6422.0	6956.7	6658.8	6969.1	7230.9	6044.4
65°	1899.3	2004.0	2395.3	3470.9	4993.8	6506.8	7380.4	7030.2	7330.6	7502.5	6130.4
66°	1728.6	1804.6	2163.5	3156.8	4698.4	6365.9	7309.4	7107.5	7382.9	7539.9	5998.3
67.5°	1434.5	1500.5	1785.9	2709.4	4094.0	6055.6	7359.2	7055.1	7422.8	7326.8	5821.3
70°	949.7	992.0	1221.3	1832.0	2851.5	4953.9	6825.8	6646.4	6525.5	6165.3	4551.4
72.5°	443.7	504.7	762.7	1110.4	1672.5	3465.9	5565.8	5325.3	4576.3	4000.5	2871.4
75°	200.6	228.1	418.7	636.8	750.3	1795.9	3590.5	3242.8	2278.2	1891.8	1257.5
77.5°	108.4	123.4	204.4	302.8	272.9	629.4	1777.2	1478.1	717.9	525.9	365.2
80°	83.5	98.5	170.7	173.2	100.9	163.3	660.5	457.4	179.5	135.8	87.2
82.5°	43.6	62.3	134.6	112.2	51.1	66.1	204.4	127.1	56.1	44.9	37.4
85°	17.4	27.4	76.0	74.8	29.9	22.4	57.3	38.6	22.4	18.7	17.4
87.5°	1.2	1.2	41.1	28.7	18.7	6.2	8.7	8.7	11.2	10.0	12.5
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°	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0	1321.0
2.5°	1353.4	1368.4	1370.9	1412.0	1420.7	1412.0	1434.5	1430.7	1440.7	1433.2	1419.5
5°	1384.6	1405.8	1446.9	1478.1	1478.1	1453.2	1433.2	1407.0	1368.4	1358.4	1351.0
7.5°	1438.2	1505.5	1542.9	1522.9	1483.1	1389.6	1260.0	1165.3	1085.5	1055.6	1041.9
10°	1532.9	1570.3	1613.9	1532.9	1367.2	1169.0	950.9	807.6	695.4	670.5	651.8
12.5°	1594.0	1653.8	1678.7	1478.1	1152.8	857.4	620.6	458.6	380.1	320.3	310.3
15°	1673.7	1742.3	1691.2	1329.8	908.5	562.1	321.5	200.6	163.3	153.3	153.3
17.5°	1728.6	1803.4	1640.1	1145.3	644.3	299.1	159.5	138.3	135.8	137.1	134.6
20°	1824.5	1869.4	1562.8	931.0	385.1	153.3	128.4	123.4	120.9	124.6	122.1
22.5°	1860.7	1901.8	1436.9	674.2	173.2	102.2	96.0	92.2	94.7	93.5	92.2
25°	1858.2	1879.4	1230.1	386.3	51.1	39.9	36.1	36.1	33.6	34.9	33.6
27.5°	1876.9	1824.5	998.3	114.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1886.9	1736.1	710.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1891.8	1689.9	457.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1930.5	1597.7	195.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1956.6	1479.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2065.1	1441.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2205.9	1372.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2401.6	1268.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2660.8	1207.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2854.0	1111.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3099.5	1054.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3391.1	1056.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3656.6	1039.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3792.4	888.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3763.7	719.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3664.0	564.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3595.5	499.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3387.4	400.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2695.7	274.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1714.9	168.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	790.1	77.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	248.0	47.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.8	29.9	10.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	21.2	8.7	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	8.7	3.7	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	5.0	2.5	2.5	1.2	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)