

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P721951

Luminaire Tested: **IFLD-L-SA7A-AMB-U-76**

Issue Date: 10/26/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P721951  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-AMB-U-76  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7x6 distribution lens  
Light Source: (112) 1620K CCT, 0 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

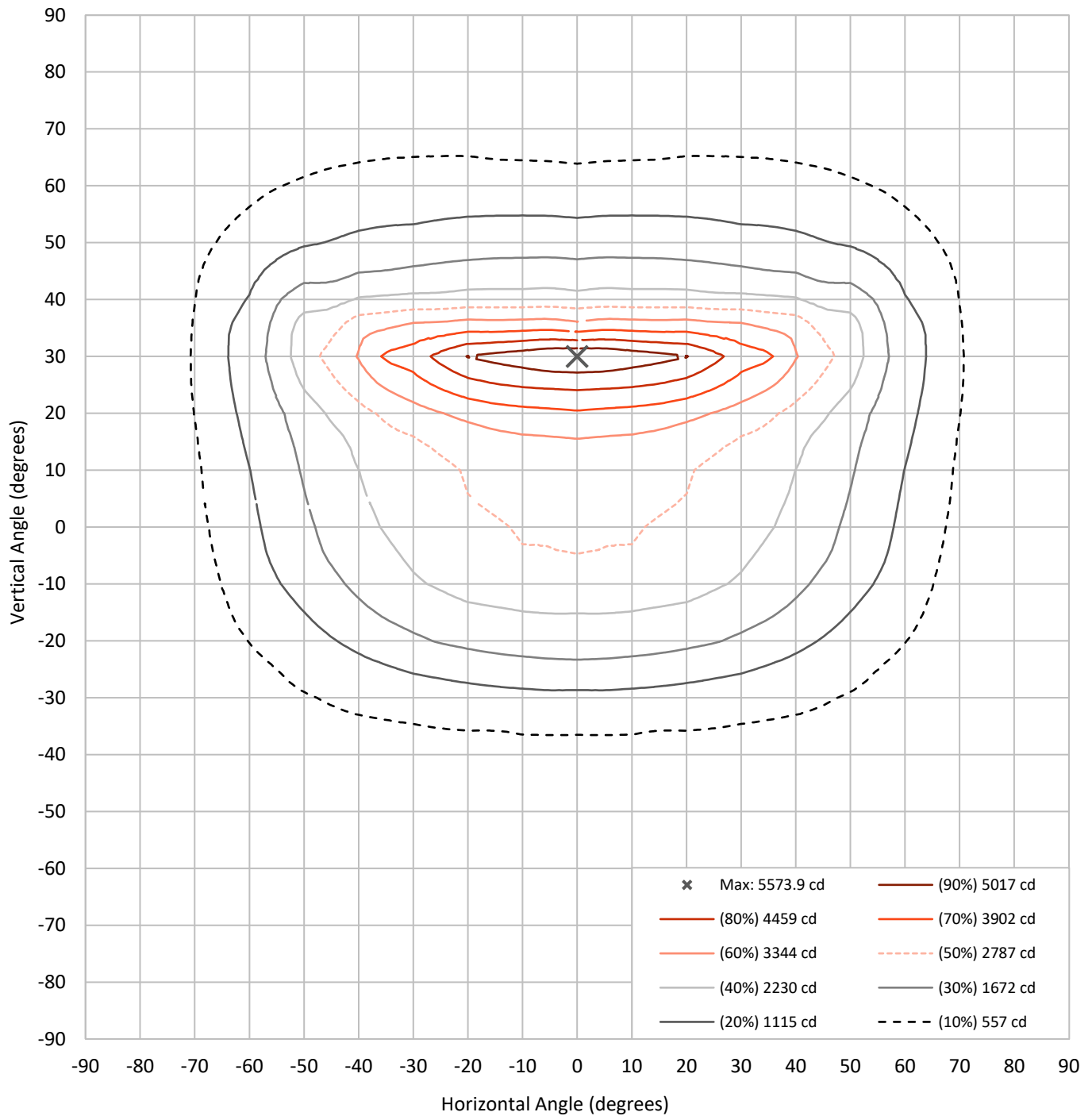
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	6965.1 lumens	Max Intensity:	5573.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 30°V
Efficacy:	32.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	94.2°H x 43.7°V	Field Angle (10%):	141.5°H x 100.4°V
Beam Lumens:	2743.7 lumens	Field Lumens:	6340.5 lumens
Beam Efficiency:	39.4%	Field Efficiency:	91.0%
Input Watts (W):	217.6		
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:	28.75 FT		



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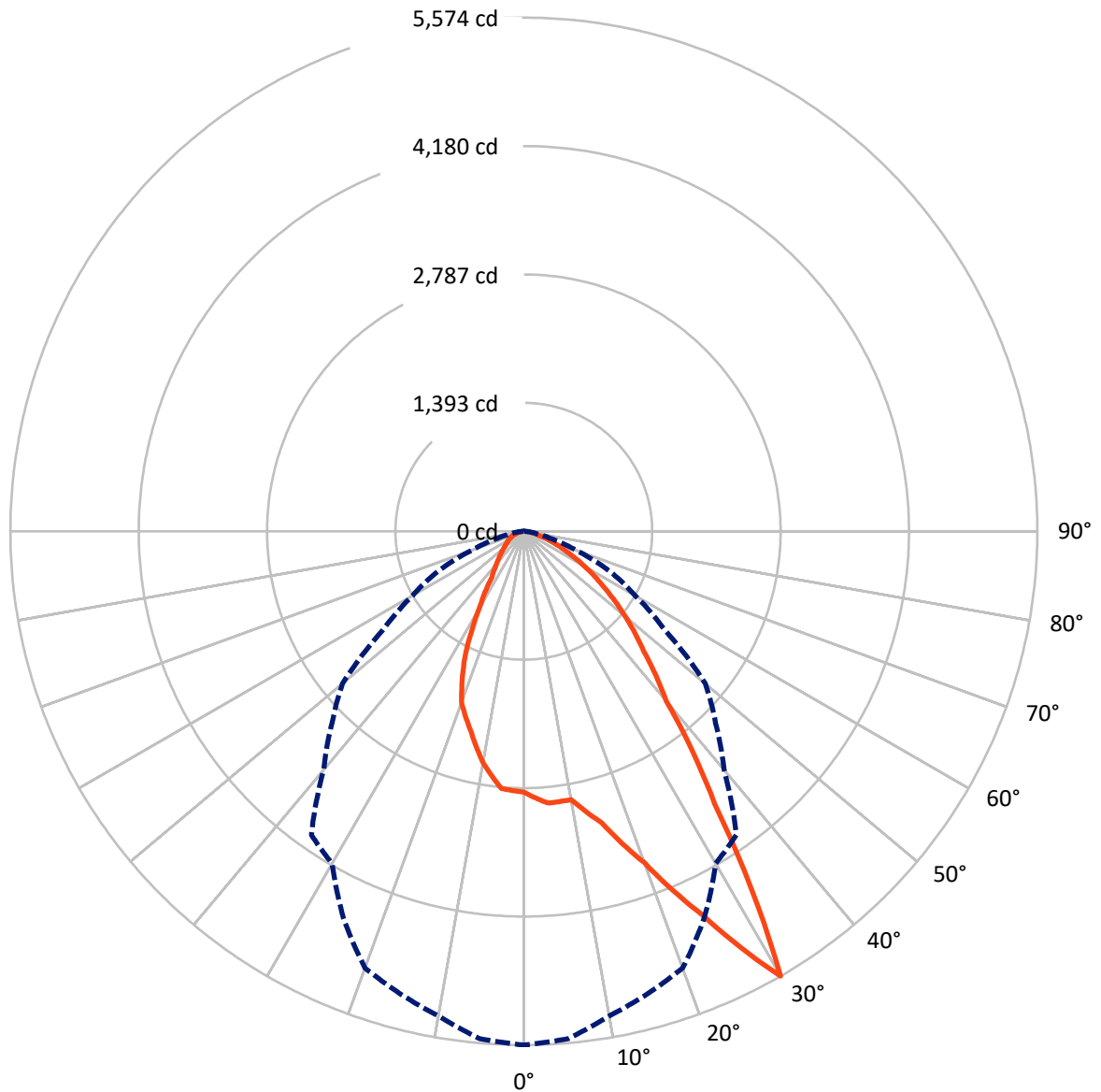
### Iso-Candela Plot





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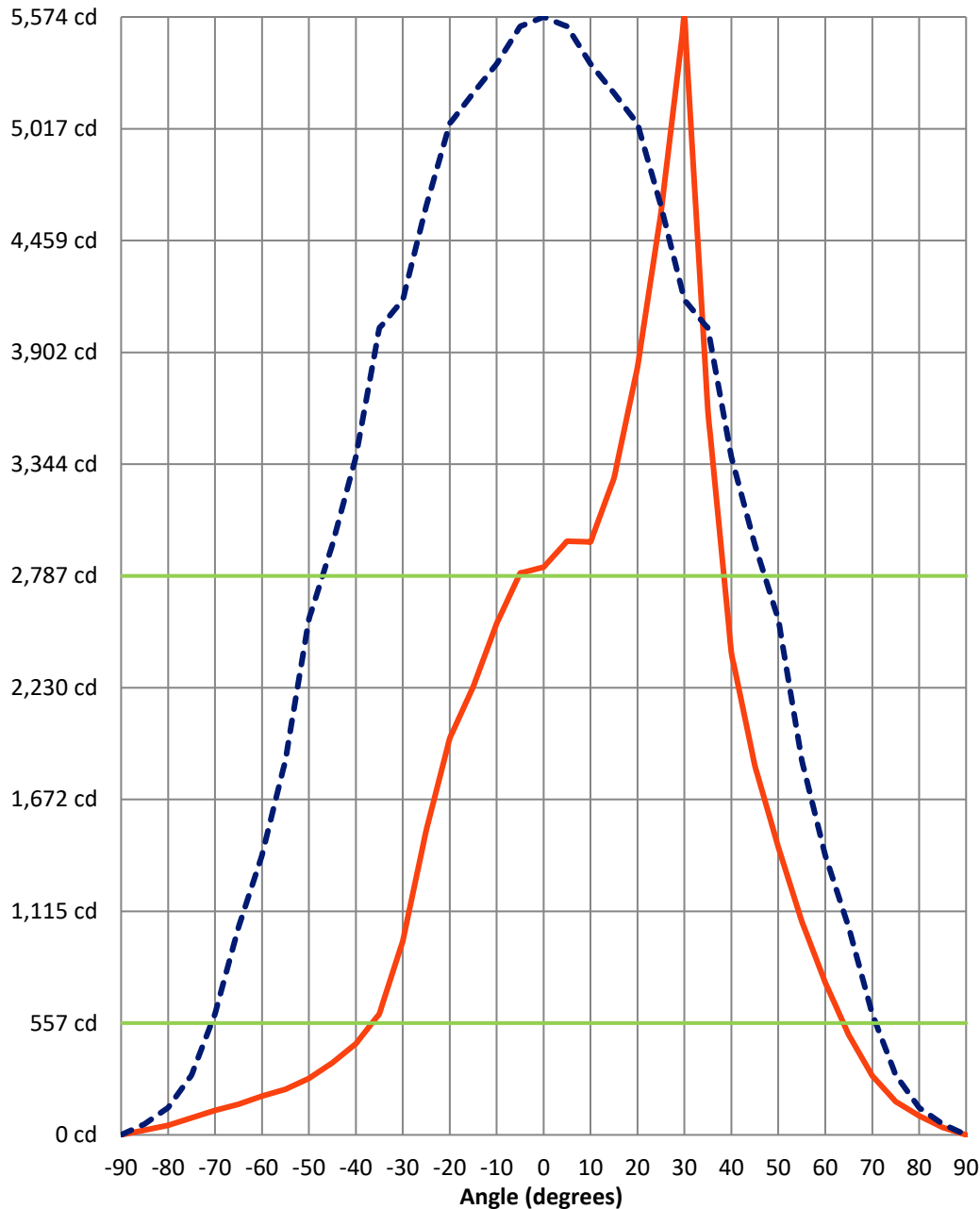
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 30-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 94.2°  
 V Angle: 43.7°  
 Lumens: 2743.7  
 Efficiency: 39.4%

**Field:**  
 H Angle: 141.5°  
 V Angle: 100.4°  
 Lumens: 6340.5  
 Efficiency: 91.0%

**Spill:**  
 Lumens: 624.6  
 Efficiency: 9.0%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through 30-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.3	40.7	40.7	40.7	44.1	44.1	47.5	50.9	50.9	47.5	44.1
80°	94.9	101.7	101.7	101.7	111.9	118.7	128.8	132.2	128.8	125.4	115.3
75°	166.1	172.9	179.7	189.9	210.2	227.2	240.7	244.1	237.3	223.8	203.4
70°	295.0	315.3	328.9	339.0	356.0	366.2	383.1	386.5	369.6	345.8	315.3
65°	498.4	518.7	525.5	532.3	562.8	562.8	556.0	545.9	522.1	491.6	450.9
60°	759.5	786.6	793.4	800.1	817.1	803.5	759.5	742.5	715.4	667.9	606.9
55°	1064.6	1091.7	1095.1	1091.7	1081.6	1054.4	996.8	993.4	949.3	884.9	803.5
50°	1434.2	1447.7	1444.3	1440.9	1413.8	1383.3	1329.1	1291.8	1234.1	1135.8	1064.6
45°	1841.0	1888.5	1871.5	1864.8	1837.6	1790.2	1739.3	1651.2	1617.2	1434.2	1457.9
40°	2403.8	2468.3	2434.3	2444.5	2437.7	2366.5	2366.5	2329.2	2278.4	2017.3	1969.9
35°	3610.8	3766.8	3726.1	3685.4	3722.7	3604.1	3566.8	3346.4	3204.0	2637.8	2536.1
30°	5573.9	5526.4	5340.0	5194.2	5041.6	4631.4	4163.5	4021.1	3380.3	2942.9	2570.0
25°	4597.5	4566.9	4522.9	4434.7	4272.0	3997.3	3692.2	3431.1	3024.3	2675.1	2288.6
20°	3827.8	3766.8	3715.9	3638.0	3499.0	3326.0	3122.6	2885.3	2624.2	2319.1	1925.8
15°	3275.2	3244.7	3217.5	3139.6	2997.2	2878.5	2705.6	2600.5	2349.6	2034.3	1783.4
10°	2956.5	2963.3	2946.3	2888.7	2827.6	2688.6	2593.7	2424.2	2227.5	1983.4	1719.0
5°	2959.9	2912.4	2909.0	2854.8	2780.2	2631.0	2515.7	2349.6	2169.9	1922.4	1647.8
0°	2831.0	2814.1	2824.3	2746.3	2664.9	2563.2	2427.6	2271.6	2075.0	1827.5	1566.4
-5°	2800.5	2773.4	2763.2	2681.9	2580.1	2458.1	2312.3	2139.4	1949.5	1735.9	1491.8
-10°	2549.6	2549.6	2519.1	2502.2	2431.0	2288.6	2169.9	1993.6	1786.8	1559.6	1322.3
-15°	2234.3	2241.1	2217.4	2163.1	2115.6	2020.7	1895.3	1749.5	1559.6	1346.0	1112.1
-20°	1976.6	1956.3	1929.2	1874.9	1800.3	1712.2	1583.3	1434.2	1257.9	1078.2	884.9
-25°	1518.9	1505.4	1461.3	1417.2	1346.0	1257.9	1173.1	1054.4	939.2	800.1	684.9
-30°	966.3	979.8	952.7	918.8	871.3	823.9	786.6	708.6	667.9	593.3	525.5
-35°	603.5	606.9	603.5	573.0	576.4	562.8	528.9	515.3	484.8	457.7	406.9
-40°	454.3	450.9	447.5	440.8	434.0	420.4	406.9	393.3	379.7	356.0	328.9
-45°	359.4	359.4	359.4	352.6	342.4	332.3	318.7	305.1	298.4	278.0	267.8
-50°	281.4	284.8	281.4	278.0	271.2	267.8	261.1	254.3	240.7	230.6	217.0
-55°	227.2	233.9	244.1	247.5	230.6	227.2	220.4	213.6	200.0	189.9	179.7
-60°	193.3	196.6	227.2	233.9	220.4	213.6	196.6	179.7	169.5	159.4	152.6
-65°	152.6	156.0	169.5	183.1	213.6	223.8	179.7	152.6	142.4	135.6	128.8
-70°	122.1	122.1	128.8	135.6	166.1	172.9	145.8	132.2	118.7	108.5	105.1
-75°	84.8	88.2	91.5	94.9	98.3	98.3	98.3	98.3	88.2	81.4	78.0
-80°	47.5	50.9	54.2	54.2	57.6	57.6	61.0	64.4	57.6	54.2	50.9
-85°	23.7	23.7	27.1	27.1	27.1	27.1	30.5	33.9	30.5	27.1	27.1
-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):**

	55°	60°	65°	70°	75°	80°	85°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.3	30.5	27.1	20.3	13.6	6.8	3.4	0.0
80°	101.7	84.8	67.8	50.9	30.5	17.0	6.8	0.0
75°	183.1	156.0	125.4	91.5	61.0	23.7	10.2	0.0
70°	281.4	240.7	193.3	142.4	91.5	44.1	13.6	0.0
65°	400.1	339.0	271.2	196.6	125.4	64.4	17.0	0.0
60°	542.5	454.3	362.8	257.7	156.0	81.4	20.3	0.0
55°	715.4	593.3	471.3	339.0	189.9	94.9	27.1	0.0
50°	935.8	766.2	596.7	420.4	220.4	105.1	33.9	0.0
45°	1244.3	962.9	742.5	501.8	247.5	115.3	40.7	0.0
40°	1620.6	1146.0	898.5	549.3	274.6	122.1	47.5	0.0
35°	1834.2	1308.7	1044.3	589.9	291.6	132.2	50.9	0.0
30°	1868.1	1393.5	1034.1	603.5	298.4	135.6	54.2	0.0
25°	1732.5	1356.2	996.8	596.7	301.8	142.4	57.6	0.0
20°	1576.6	1278.2	929.0	566.2	291.6	145.8	61.0	0.0
15°	1508.8	1196.8	847.6	518.7	288.2	145.8	61.0	0.0
10°	1430.8	1105.3	759.5	491.6	281.4	145.8	64.4	0.0
5°	1359.6	1044.3	725.6	471.3	271.2	142.4	61.0	0.0
0°	1295.2	986.6	678.1	434.0	254.3	139.0	61.0	0.0
-5°	1220.6	918.8	623.8	406.9	247.5	135.6	61.0	0.0
-10°	1078.2	823.9	559.4	369.6	233.9	132.2	61.0	0.0
-15°	888.3	691.7	491.6	335.7	220.4	128.8	57.6	0.0
-20°	698.4	566.2	423.8	301.8	210.2	122.1	54.2	0.0
-25°	552.6	454.3	356.0	267.8	193.3	115.3	54.2	0.0
-30°	447.5	369.6	301.8	233.9	179.7	108.5	50.9	0.0
-35°	366.2	311.9	250.9	203.4	159.4	98.3	44.1	0.0
-40°	295.0	257.7	217.0	172.9	139.0	91.5	40.7	0.0
-45°	244.1	217.0	186.5	149.2	118.7	81.4	33.9	0.0
-50°	203.4	183.1	159.4	128.8	101.7	74.6	30.5	0.0
-55°	169.5	152.6	132.2	108.5	88.2	64.4	23.7	0.0
-60°	142.4	128.8	111.9	91.5	74.6	54.2	17.0	0.0
-65°	118.7	105.1	88.2	78.0	61.0	40.7	13.6	0.0
-70°	94.9	84.8	71.2	61.0	47.5	30.5	10.2	0.0
-75°	67.8	61.0	54.2	44.1	30.5	17.0	10.2	0.0
-80°	44.1	40.7	33.9	27.1	17.0	10.2	6.8	0.0
-85°	23.7	20.3	17.0	13.6	10.2	6.8	3.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)