

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: P721952

Luminaire Tested: **IFLD-L-SA8A-AMB-U-76**

Issue Date: 10/26/2023

Test Information

Test Method: LM-79-2019
Report Number: P721952
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-AMB-U-76
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7x6 distribution lens
Light Source: (128) 1620K CCT, 0 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

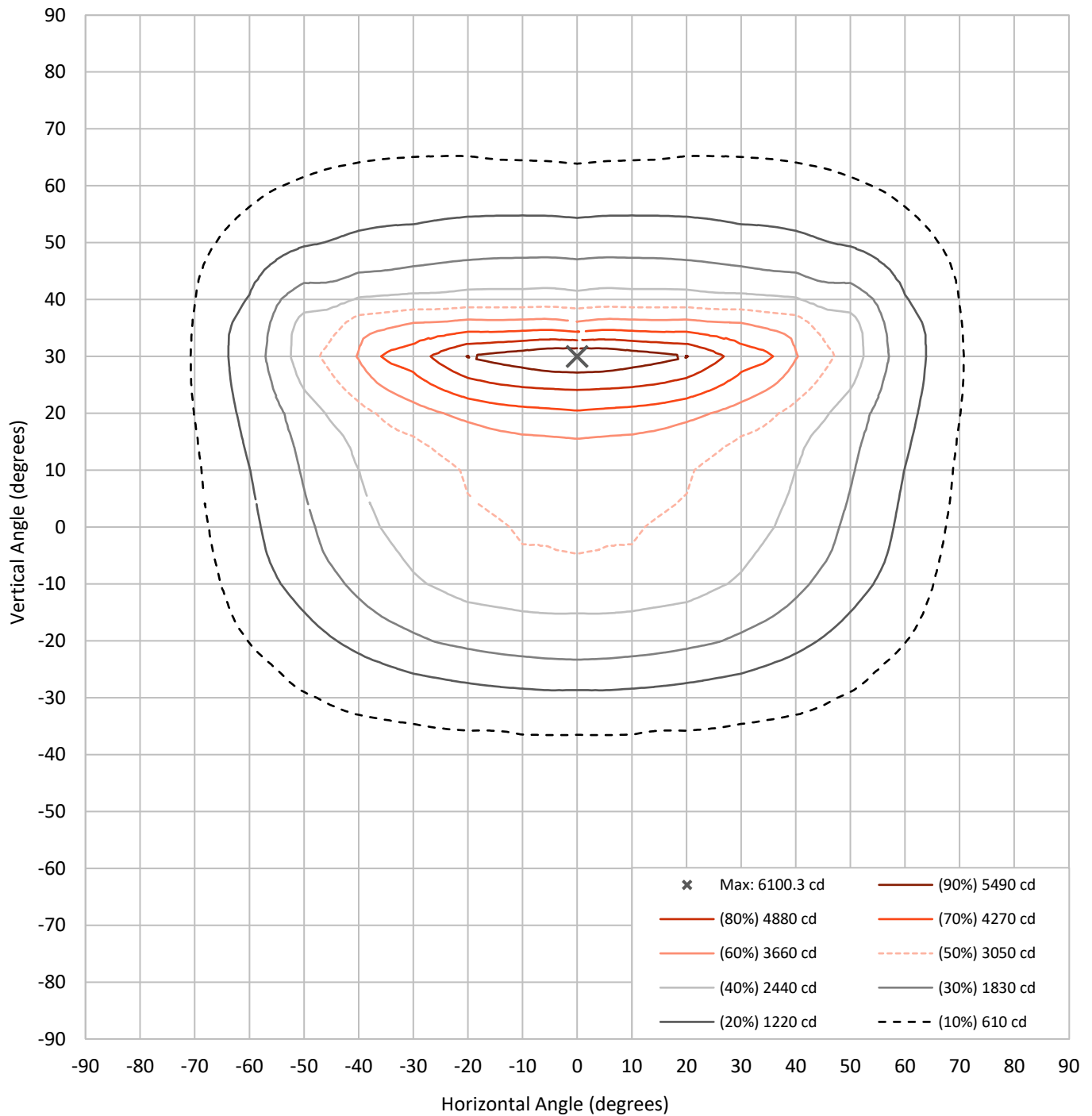
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 6V
Luminaire Lumens:	7622.8 lumens	Max Intensity:	6100.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 30°V
Efficacy:	30.8 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:	3002.8 lumens	Field Lumens:	6939.2 lumens
Beam Efficiency:	39.4%	Field Efficiency:	91.0%
Input Watts (W):	247.8		
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:	28.75 FT		



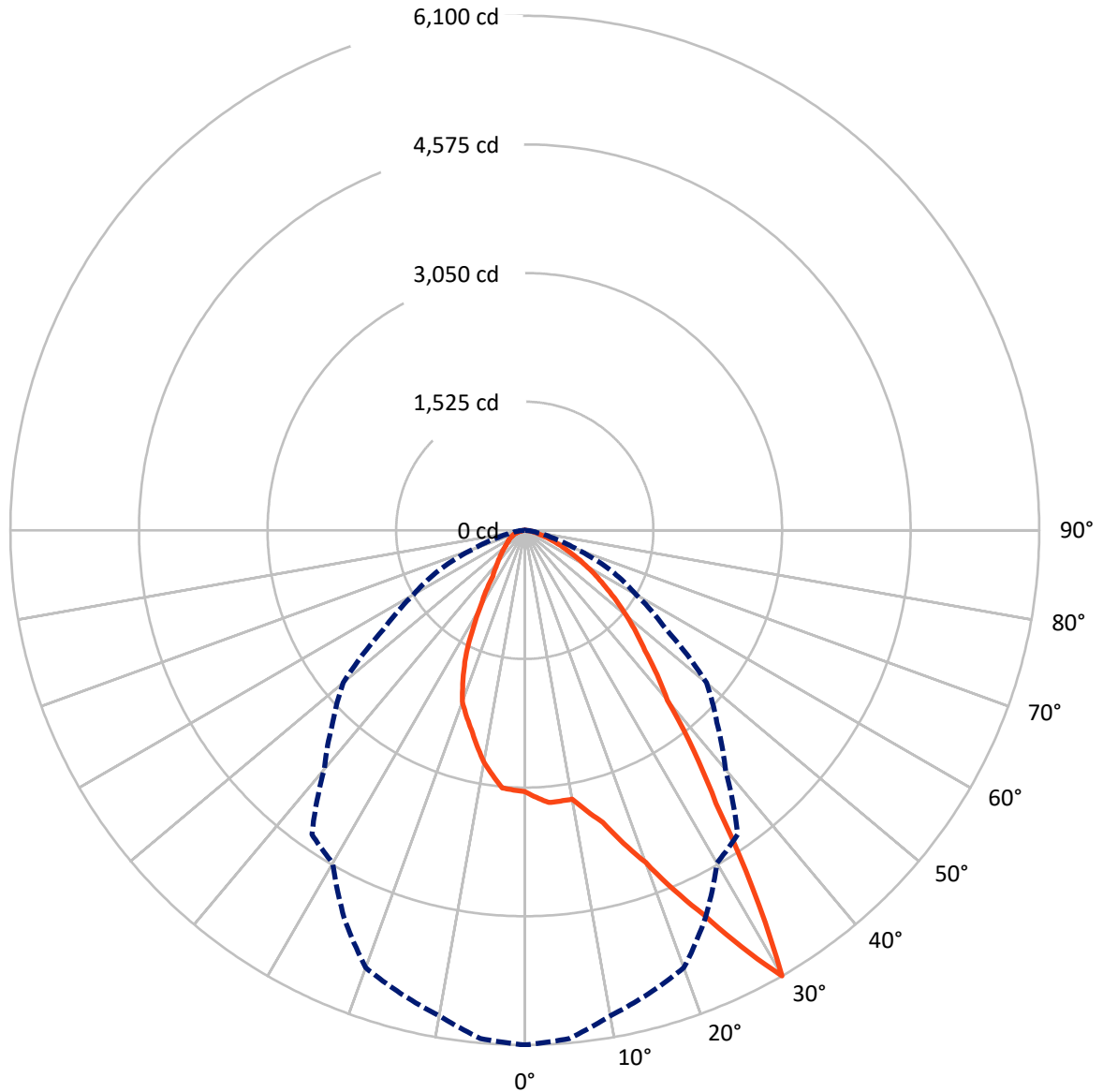
REPORT NUMBER: P721952
CATALOG NUMBER: IFLD-L-SA8A-AMB-U-76

Iso-Candela Plot



REPORT NUMBER: P721952
CATALOG NUMBER: IFLD-L-SA8A-AMB-U-76

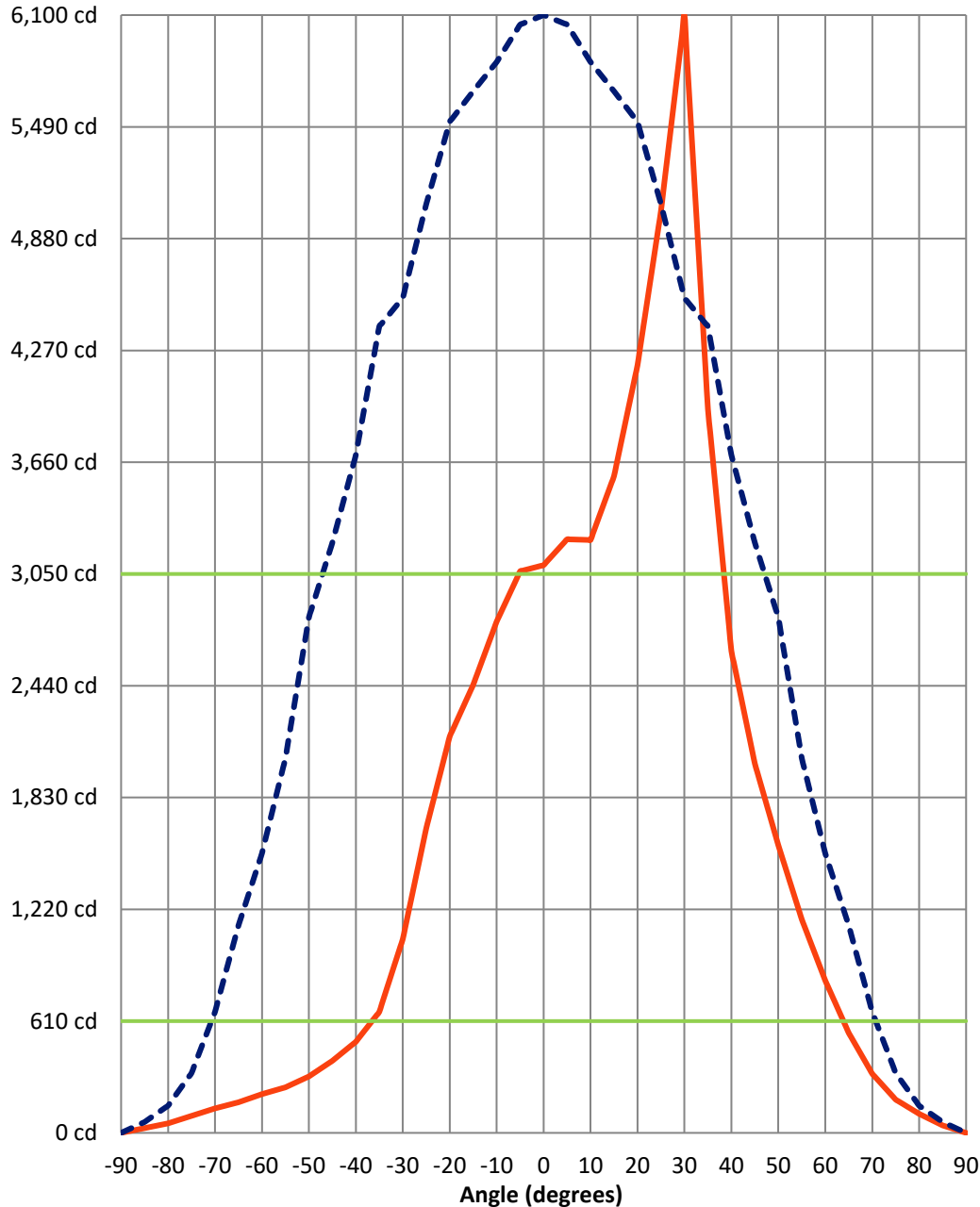
Luminous Intensity Polar Plot



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

REPORT NUMBER: P721952
 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-76

Luminous Intensity Plot



Beam:
 H Angle: 94.2°
 V Angle: 43.7°
 Lumens: 3002.8
 Efficiency: 39.4%

Field:
 H Angle: 141.5°
 V Angle: 100.4°
 Lumens: 6939.2
 Efficiency: 91.0%

Spill:
 Lumens: 683.6
 Efficiency: 9.0%

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



REPORT NUMBER: P721952
 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-76

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°	40.8	44.5	44.5	44.5	48.2	48.2	51.9	55.7	55.7	51.9	48.2
80°	103.9	111.3	111.3	111.3	122.5	129.9	141.0	144.7	141.0	137.3	126.2
75°	181.8	189.2	196.7	207.8	230.1	248.6	263.5	267.2	259.7	244.9	222.6
70°	322.8	345.1	359.9	371.1	389.6	400.7	419.3	423.0	404.5	378.5	345.1
65°	545.5	567.7	575.1	582.6	616.0	616.0	608.5	597.4	571.4	538.0	493.5
60°	831.2	860.9	868.3	875.7	894.3	879.4	831.2	812.6	782.9	731.0	664.2
55°	1165.1	1194.8	1198.5	1194.8	1183.7	1154.0	1090.9	1087.2	1039.0	968.5	879.4
50°	1569.6	1584.4	1580.7	1577.0	1547.3	1513.9	1454.6	1413.7	1350.7	1243.1	1165.1
45°	2014.9	2066.8	2048.3	2040.8	2011.2	1959.2	1903.5	1807.1	1770.0	1569.6	1595.6
40°	2630.8	2701.3	2664.2	2675.4	2667.9	2590.0	2590.0	2549.2	2493.5	2207.8	2155.9
35°	3951.8	4122.5	4078.0	4033.4	4074.3	3944.4	3903.6	3662.4	3506.5	2886.9	2775.5
30°	6100.3	6048.3	5844.2	5684.7	5517.7	5068.7	4556.6	4400.8	3699.5	3220.8	2812.6
25°	5031.6	4998.2	4950.0	4853.5	4675.4	4374.8	4040.9	3755.1	3309.9	2927.7	2504.7
20°	4189.3	4122.5	4066.8	3981.5	3829.4	3640.1	3417.5	3157.7	2872.0	2538.1	2107.6
15°	3584.5	3551.1	3521.4	3436.0	3280.2	3150.3	2961.1	2846.0	2571.5	2226.4	1951.8
10°	3235.7	3243.1	3224.5	3161.4	3094.7	2942.5	2838.6	2653.1	2437.9	2170.7	1881.3
5°	3239.4	3187.4	3183.7	3124.3	3042.7	2879.4	2753.3	2571.5	2374.8	2103.9	1803.4
0°	3098.4	3079.8	3090.9	3005.6	2916.5	2805.2	2656.8	2486.1	2270.9	2000.0	1714.3
-5°	3065.0	3035.3	3024.2	2935.1	2823.8	2690.2	2530.6	2341.4	2133.6	1899.8	1632.7
-10°	2790.4	2790.4	2757.0	2738.4	2660.5	2504.7	2374.8	2181.8	1955.5	1706.9	1447.1
-15°	2445.3	2452.7	2426.7	2367.4	2315.4	2211.5	2074.2	1914.7	1706.9	1473.1	1217.1
-20°	2163.3	2141.0	2111.3	2052.0	1970.3	1873.9	1732.9	1569.6	1376.6	1180.0	968.5
-25°	1662.4	1647.5	1599.3	1551.0	1473.1	1376.6	1283.9	1154.0	1027.8	875.7	749.5
-30°	1057.5	1072.4	1042.7	1005.6	953.6	901.7	860.9	775.5	731.0	649.4	575.1
-35°	660.5	664.2	660.5	627.1	630.8	616.0	578.9	564.0	530.6	500.9	445.3
-40°	497.2	493.5	489.8	482.4	475.0	460.1	445.3	430.4	415.6	389.6	359.9
-45°	393.3	393.3	393.3	385.9	374.8	363.6	348.8	334.0	326.5	304.3	293.1
-50°	308.0	311.7	308.0	304.3	296.8	293.1	285.7	278.3	263.5	252.3	237.5
-55°	248.6	256.0	267.2	270.9	252.3	248.6	241.2	233.8	218.9	207.8	196.7
-60°	211.5	215.2	248.6	256.0	241.2	233.8	215.2	196.7	185.5	174.4	167.0
-65°	167.0	170.7	185.5	200.4	233.8	244.9	196.7	167.0	155.8	148.4	141.0
-70°	133.6	133.6	141.0	148.4	181.8	189.2	159.6	144.7	129.9	118.7	115.0
-75°	92.8	96.5	100.2	103.9	107.6	107.6	107.6	107.6	96.5	89.1	85.3
-80°	51.9	55.7	59.4	59.4	63.1	63.1	66.8	70.5	63.1	59.4	55.7
-85°	26.0	26.0	29.7	29.7	29.7	29.7	33.4	37.1	33.4	29.7	29.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P721952
 CATALOG NUMBER: IFLD-L-SA8A-AMB-U-76

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°	40.8	33.4	29.7	22.3	14.8	7.4	3.7	0.0
80°	111.3	92.8	74.2	55.7	33.4	18.6	7.4	0.0
75°	200.4	170.7	137.3	100.2	66.8	26.0	11.1	0.0
70°	308.0	263.5	211.5	155.8	100.2	48.2	14.8	0.0
65°	437.9	371.1	296.8	215.2	137.3	70.5	18.6	0.0
60°	593.7	497.2	397.0	282.0	170.7	89.1	22.3	0.0
55°	782.9	649.4	515.8	371.1	207.8	103.9	29.7	0.0
50°	1024.1	838.6	653.1	460.1	241.2	115.0	37.1	0.0
45°	1361.8	1053.8	812.6	549.2	270.9	126.2	44.5	0.0
40°	1773.7	1254.2	983.3	601.1	300.6	133.6	51.9	0.0
35°	2007.4	1432.3	1142.9	645.6	319.1	144.7	55.7	0.0
30°	2044.6	1525.1	1131.7	660.5	326.5	148.4	59.4	0.0
25°	1896.1	1484.2	1090.9	653.1	330.2	155.8	63.1	0.0
20°	1725.4	1398.9	1016.7	619.7	319.1	159.6	66.8	0.0
15°	1651.2	1309.8	927.7	567.7	315.4	159.6	66.8	0.0
10°	1565.9	1209.7	831.2	538.0	308.0	159.6	70.5	0.0
5°	1488.0	1142.9	794.1	515.8	296.8	155.8	66.8	0.0
0°	1417.5	1079.8	742.1	475.0	278.3	152.1	66.8	0.0
-5°	1335.8	1005.6	682.8	445.3	270.9	148.4	66.8	0.0
-10°	1180.0	901.7	612.3	404.5	256.0	144.7	66.8	0.0
-15°	972.2	757.0	538.0	367.4	241.2	141.0	63.1	0.0
-20°	764.4	619.7	463.8	330.2	230.1	133.6	59.4	0.0
-25°	604.8	497.2	389.6	293.1	211.5	126.2	59.4	0.0
-30°	489.8	404.5	330.2	256.0	196.7	118.7	55.7	0.0
-35°	400.7	341.4	274.6	222.6	174.4	107.6	48.2	0.0
-40°	322.8	282.0	237.5	189.2	152.1	100.2	44.5	0.0
-45°	267.2	237.5	204.1	163.3	129.9	89.1	37.1	0.0
-50°	222.6	200.4	174.4	141.0	111.3	81.6	33.4	0.0
-55°	185.5	167.0	144.7	118.7	96.5	70.5	26.0	0.0
-60°	155.8	141.0	122.5	100.2	81.6	59.4	18.6	0.0
-65°	129.9	115.0	96.5	85.3	66.8	44.5	14.8	0.0
-70°	103.9	92.8	77.9	66.8	51.9	33.4	11.1	0.0
-75°	74.2	66.8	59.4	48.2	33.4	18.6	11.1	0.0
-80°	48.2	44.5	37.1	29.7	18.6	11.1	7.4	0.0
-85°	26.0	22.3	18.6	14.8	11.1	7.4	3.7	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)